

Dy-Mark Spray & Mark Std All Colours

Dy-Mark	Chemwatch Hazard Alert Code: 4
Chemwatch: 18-3984	Issue Date: 30/05/2020
Version No: 18.1.1.1	Print Date: 01/06/2020
Safety Data Sheet according to WHS and ADG requirements	S.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier	
Product name	Dy-Mark Spray & Mark Std All Colours
Synonyms	40011203 Blue; 40023511 Hz White; 40011205 Yellow; 40011211 White; 40013501 Black; 40013502 Red; 40013503 Blue; 40013504 Green; 40013505 Yellow; 40013506 Orange; 40013507 Grey; 40013510 Silver 350g; 40013511 White; 40013513 Grey; 40013520 Tan; 40013533 Light Blue 350g; 40013535 Telstra Yellow SA; 40013555 L/F Yellow 350g; 40013558 Violet; 40033535 Yellow 350g 360°; 40043511 White 350g 360°; 40010603 Blue; 40010611 White
Proper shipping name	AEROSOLS
Other means of identification	Not Available
Relevant identified uses of the	substance or mixture and uses advised against
Relevant identified uses	Application is by spray atomisation from a hand held aerosol pack Use according to manufacturer's directions.

Details of the supplier of the safety data sheet

Registered company name	Dy-Mark
Address	89 Formation Street Wacol QLD 4076 Australia
Telephone	+61 7 3327 3004
Fax	+61 7 3327 3009
Website	http://www.dymark.com.au
Email	info@dymark.com.au
	,
Emergency telephone number	

nergency telephone numbe

Association / Organisation	Dy-Mark
Emergency telephone numbers	+61 7 3327 3099
Other emergency telephone numbers	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	4		
Toxicity	2		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	1	1	4 = Extreme

Poisons Schedule	Not Applicable
Classification ^[1]	Flammable Aerosols Category 1, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Acute Aquatic Hazard Category 3
Legend:	1. Classified by Chernwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)

Page 1 continued...

LPG FORMULATION

LEGACY SDS



Dy-Mark Spray & Mark - All Colours (Post Nov 2020) Dy-Mark

Chemwatch: 5434-45 Version No: 3.1.1.1 Safety Data Sheet according to WHS and ADG requirements

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

Regist

Product name	Dy-Mark Spray & Mark - All Colours (Post Nov 2020)
Synonyms	Not Available
Proper shipping name	AEROSOLS
Other means of identification	Not Available

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Aerosol spray paint. Use according to manufacturer's directions. Application is by spray atomisation from a hand held aerosol pack

Details of the supplier of the safety data sheet

tered company name	Dy-Mark	
Address	89 Formation Street Wacol QLD 4076 Australia	
Telephone	+61 7 3327 3004	
Fax	+61 7 3327 3009	
Website	http://www.dymark.com.au	
Email	info@dymark.com.au	
v telephone number		

Emergency telephone number		
Association / Organisation	Dy-Mark	
Emergency telephone numbers	+61 7 3327 3099	

Not Available

SECTION 2 Hazards identification

numbers

Other emergency telephone

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

ChemWatch Hazard Ratings

		Min	Max	
Flammability	4			
Toxicity	1		1	0 = Minimum
Body Contact	2		1	1 = Low
Reactivity	1		1	2 = Moderate
Chronic	0			3 = High 4 = Extreme

Poisons Schedule	Not Applicable
Classification [1]	Flammable Aerosols Category 1, Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from H

Label elements



mwatch Hazard Alert Code: 4

Issue Date: 18/11/2020 Print Date: 17/11/2020 S.GHS.AUS.EN

2A, Specific target organ toxicity - single exposure Category 3 (narcotic effects) HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Page 1 continued...

Page 2 of 12

Dy-Mark Spray & Mark Std All Colours

Issue Date: 30/05/2020 Print Date: 01/06/2020 Chemwatch: 5434-45 Version No: 3.1.1.1

Page 2 of 14

Dy-Mark Spray & Mark - All Co

Hazard	statement(s)
nazaru	statement(s)

H222	Extremely flammable aerosol.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
AUH044	Risk of explosion if heated under confinement.
AUH066	Repeated exposure may cause skin dryness and cracking

Precautionary statement(s) Prevention

P210	Keep away from heat/sparks/open flames/hot surfaces N
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after us
P271	Use only outdoors or in a well-ventilated area.
P261	Avoid breathing mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/f

Precautionary statement(s) Response

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minu
P312	Call a POISON CENTER or doctor/physician if you feel u
P337+P313	If eye irritation persists: Get medical advice/attention.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest

Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exc
P403+P233	Store in a well-ventilated place. Keep container tightly clo

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous o

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
67-64-1	10-25	acetone
123-86-4	5-10	n-butyl acetate
108-65-6	5-10	propylene glycol monometh
64742-95-6.	1-2	naphtha petroleum, light arc
Not Available	balance	Ingredients determined not
68476-85-7.	20-40	hydrocarbon propellant

SECTION 4 First aid measures

Description of first aid measures

dion of hist aid measures			
Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye Ensure complete irrigation of the eye by keeping eye and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should 		
Skin Contact	If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if a Remove any adhering solids with industrial skin cleat DO NOT use solvents. Seek medical attention in the event of irritation. 		
Inhalation	If aerosols, fumes or combustion products are inhaled: Remove to fresh air. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block ain If breathing is shallow or has stopped, ensure clear a mask device, or pocket mask as trained. Perform CF Transport to hospital, or doctor.		
Ingestion	 Avoid giving milk or oils. Avoid giving alcohol. Not considered a normal route of entry. 		

SIGNAL WORD	DANGER		
Hazard statement(s)			
H222	Extremely flammable aerosol.		
H315	Causes skin irritation.		
H319	Causes serious eye irritation.		
H336	May cause drowsiness or dizziness.		
H402	Harmful to aquatic life.		
AUH044	Risk of explosion if heated under confinement.		
Precautionary statement(s) Prevention			
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
P211	Do not spray on an open flame or other ignition source.		
P251	Pressurized container: Do not pierce or burn, even after use.		
P271	Use only outdoors or in a well-ventilated area.		
P261 Avoid breathing mist/vapours/spray.			
P273	Avoid release to the environment.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
Precautionary statement(s) Response			
P321	Specific treatment (see advice on this label).		
P362	Take off contaminated clothing and wash before reuse.		

P302	Take on contaminated clothing and wash before reuse.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
P337+P313	If eye irritation persists: Get medical advice/attention.		
P302+P352	IF ON SKIN: Wash with plenty of water.		
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P332+P313	If skin irritation occurs: Get medical advice/attention.		

Precautionary statement(s) Storage

	-
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1330-20-7	10-30	xylene
67-64-1	10-30	acetone
115-10-6	10-30	dimethyl ether
68476-85-7.	10-30	hydrocarbon propellant
Not Available	balance	Ingredients determined not to be hazardous
Not Available		The hydrocarbon propellant used in the product contains less than 0.1% w/w 1,3 butadiene
Not Available		therefore product not classified as a carcinogen

SECTION 4 FIRST AID MEASURES

Description of first aid measures

-	
Eye Contact	 If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Transport to hospital or doctor without delay. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	 If solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream.

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No smoking.
use.
usc.
/face protection.
utes. Remove contact lenses, if present and easy to do. Continue rinsing.
unwell.
t in a position comfortable for breathing.
ceeding 50 °C/122 °F.
osed.
or special waste collection point in accordance with any local regulation.
hyl ether acetate, alpha-isomer
romatic solvent
t to be hazardous
continuously for at least 15 minutes with fresh running water. lids apart and away from eye and moving the eyelids by occasionally lifting the upper
d only be undertaken by skilled personnel.
available).
ansing cream.

airway, should be removed, where possible, prior to initiating first aid procedures. ar airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve CPR if necessary.

Page 3 of 12

Issue Date: 30/05/2020

Chemwatch: 5434-45

Page 3 of 14

Chemwalch: 18-3984	Page 3 of 12	<u>'</u>	Issue Date: 30/05/2020	Chemwalch: 3434-45	Page 3 of 14
Version No: 18.1.1.1	Dy-Mark Spray & Mark S	Std All Colours	Print Date: 01/06/2020	Version No: 3.1.1.1	Dy-Mark Spray & Mark - All Colours (Post Nov 2020
	► DO NOT use solvents.				If spontaneous vomiting appears imminent or occurs, hold patient's head down, low
	Seek medical attention in the event of irritation.				vomitus.
	If aerosols, fumes or combustion products are inhaled:				
	 Remove to fresh air. Low patient down. Keen warm and reated 				nedical attention and special treatment needed
Inhalation	 Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airwa 	av should be removed where possible pric	r to initiating first aid procedures	For petroleum distillates	
	 If breathing is shallow or has stopped, ensure clear air 				astric lavage with activated charcoal can be used promptly to prevent absorption - deconta n the merits of each individual case; of course the usual precautions of an endotracheal tube
	mask device, or pocket mask as trained. Perform CPR	if necessary.		aspiration.	
	 Transport to hospital, or doctor. 				by petroleum distillates should be hospitalized immediately, with acute and continuing atten
	 Avoid giving milk or oils. 				ilation may be necessary.
Ingestion	 Avoid giving alcohol. Not considered a normal route of entry. 				system signs and symptoms may result from large ingestions of aspiration-induced hypoxia. e, individuals should be followed for changes in blood variables and the delayed appearance
	Not considered a normal route of entry.				wed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic ar
Indication of any immediate m	edical attention and special treatment needed				riously impaired, and recovery from inhalation exposure may be complicated.
Treat symptomatically.					toms are usually minor and pathological changes of the liver and kidneys are reported to be hlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecher
for lower alkyl ethers:					tential adverse effect should precede administration of epinephrine or other cardiac stimulant
BASIC TREATMENT				BP America Product Safety & Toxi	
				Treat symptomatically.	
Establish a patent airway with	suction where necessary.			for simple esters:	
• • •	insufficiency and assist ventilation as necessary.			BASIC TREATMENT	
 Administer oxygen by non-reb A low-stimulus environment m 					
 Monitor and treat, where nece 				Establish a patent airway with	
 Anticipate and treat, where ne 				° , ,	insufficiency and assist ventilation as necessary.
	ingestion is suspected rinse mouth and give up to 200 ml wate	er (5 ml/kg recommended) for dilution where	e patient is able to swallow, has a strong	 Administer oxygen by non-reb Monitor and treat, where nece 	
gag reflex and does not drool.				 Monitor and treat, where nece 	
ADVANCED TREATMENT				DO NOT use emetics. Where	ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for
				gag reflex and does not drool.	
	racheal intubation for airway control in unconscious patient or	where respiratory arrest has occurred.		 Give activated charcoal. 	
	ising a bag-valve mask might be of use.			ADVANCED TREATMENT	
 Monitor and treat, where nece Start an IV D5W TKO. If signs 	ssary, for armythmas. of hypovolaemia are present use lactated Ringers solution. F	-luid overload might create complications			
 Drug therapy should be considered. 					tracheal intubation for airway control in unconscious patient or where respiratory arrest has o
 Hypotension without signs of h 	nypovolaemia may require vasopressors.			 Positive-pressure ventilation u Monitor and treat, where nece 	using a bag-valve mask might be of use.
 Treat seizures with diazepam. 					s of hypovolaemia are present use lactated Ringers solution. Fluid overload might create con
Proparacaine nydrochloride sr	nould be used to assist eye irrigation.			Drug therapy should be considered.	dered for pulmonary oedema.
EMERGENCY DEPARTMENT					povolaemia requires the cautious administration of fluids. Fluid overload might create complic
				 Treat seizures with diazepam. Proparacaine bydrochloride sl 	hould be used to assist eye irrigation.
	te blood count, serum electrolytes, BUN, creatinine, glucose, u	-			
electrocardiograph.	n establishing a treatment regime. Other useful analyses inclu	de anion and osmolar gaps, arterial blood g	ases (ABGs), chest radiographs and	EMERGENCY DEPARTMENT	
	o acidosis. Hyperventilation and bicarbonate therapy might be	indicated.			
, ,	dered in patients with impaired renal function.				ete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum a n establishing a treatment regime. Other useful analyses include anion and osmolar gaps, ar
 Consult a toxicologist as nece BRONSTEIN. A.C. and CURRANG 				electrocardiograph.	
,	JE, F.L. RDOUS MATERIALS EXPOSURE: 2nd Ed. 1994				ure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respira
For acute or short term repeated e				Consult a toxicologist as nece	
	re approximate ethanol intoxication.			BRONSTEIN, A.C. and CORRAN	CE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994
1 ,	ungs and the rest is metabolised. Alveolar air half-life is about	0	els near the Exposure Standard; in		
	m and limited clearance, prolong the elimination half-life to 25 and treatment should involve the usual methods of decontam			SECTION 5 Firefighting me	asures
[Ellenhorn and Barceloux: Medical		inducin followed by supportive sure.			
Management:				Extinguishing media	
	acetone concentrations may be useful to monitor the severity of	of ingestion or inhalation.		SMALL FIRE:	
Inhalation Management:	uumidified oxygen and ventilate if necessary.			Water spray, dry chemical or 0	CO2
	assess respiratory function and, if necessary, perform chest X	-ravs to check for chemical pneumonitis.		LARGE FIRE:	
	o reduce the inflammatory response.			 Water spray or fog. 	
 Treat pulmonary oedema with 	PEEP or CPAP ventilation.			Special hazards arising from t	the substrate or mixture
Dermal Management:	mineted elething, place in double sealed, clear base, label and	l atoro in accura area away from patiento ar	ad atoff		
 Remove any remaining contar Irrigate with copious amounts 	ninated clothing, place in double sealed, clear bags, label and of water.	store in secure area away from patients an	u staii.	Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine blead
 An emollient may be required. 					
Eye Management:				Advice for firefighters	
 Irrigate thoroughly with running 	•				Alert Fire Brigade and tell them location and nature of hazard.
	er to an ophthalmologist if there is any uptake of the stain.				May be violently or explosively reactive.
Oral Management: No GASTRIC LAVAGE OR El	METIC				 Wear breathing apparatus plus protective gloves. Drevent by any means queilable apillage from extering dreine or water course.
 Encourage oral fluids. 	-				 Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed.
Systemic Management:				Fire Fighting	 If safe, switch on electrical equipment until vapour fire nazard removed. Use water delivered as a fine spray to control fire and cool adjacent area.
 Monitor blood glucose and art 	•				 DO NOT approach containers suspected to be hot.
 Ventilate if respiratory depress If patient unconscious, monito 					Cool fire exposed containers with water spray from a protected location.
 If patient unconscious, monito Symptomatic and supportive c 					 If safe to do so, remove containers from path of fire. Equipment cheuld be there used
The Chemical Incident Manageme					Equipment should be thoroughly decontaminated after use.
Guy's and St. Thomas' Hospital Tr					 Liquid and vapour are highly flammable. Course first barrad when surgered to head on flame.
BIOLOGICAL EXPOSURE INDEX		and at the Experime Standard (FO or This			 Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air.
These represent the determinants Determinant	observed in specimens collected from a healthy worker expos Sampling Time	sed at the Exposure Standard (ES or TLV): Index	Comments		 Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark.
Acetone in urine	End of shift	50 mg/L	NS	Fire/Explosion Hazard	

These represent the determinants observed in specimens Determinant Sampling Time Index Comments 50 mg/L NS Acetone in urine End of shift

NS: Non-specific determinant; also observed after exposure to other material

For acute or short term repeated exposures to xylene:

+ Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The

Continued...

lown, lower than their hips to help avoid possible aspiration of

decontamination (induced emesis or lavage) is controversial and cheal tube should be considered prior to lavage, to prevent

uing attention to neurologic and cardiopulmonary function.

pearance of pulmonary oedema and chemical pneumonitis. Such hepatic and renal impairment Individuals with chronic pulmonary

ted to be uncommon in acute intoxications.

ng catecholamines so that arrhythmias may occur.Careful

stimulants and the selection of bronchodilators.

ended) for dilution where patient is able to swallow, has a strong

rrest has occurred.

create complications

te complications.

for serum aminotransferases (ALT and AST), calcium, phosphorus ar gaps, arterial blood gases (ABGs), chest radiographs and

dult respiratory distress syndrome.

orine bleaches, pool chlorine etc. as ignition may result

Hazards may not be restricted to pressure effects.

 Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials.

Chemwatch: 18-3984 Version No: 18.1.1.1

Page 4 of 12

Dy-Mark Spray & Mark Std All Colours

Issue Date: 30/05/2020 Print Date: 01/06/2020 Chemwatch: 5434-45 Version No: 3.1.1.1

Page 4 of 14

	 May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon mon Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) other pyrolysis products typical of burning organic materia Contains low boiling substance: Closed containers materia
HAZCHEM	Not Applicable

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and ey Wear protective clothing, impervious gloves and safe Shut off all possible sources of ignition and increase of Wipe up. If safe, damaged cans should be placed in a containe Undamaged cans should be gathered and stowed sa
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature o May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from enteri No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb Absorb or cover spill with sand, earth, inert materials If safe, damaged cans should be placed in a containe Undamaged cans should be gathered and stowed sa Collect residues and seal in labelled drums for dispose

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

Precautions for safe handling	
Safe handling	The conductivity of this material may make it a static accumpS/m and is considered semi-conductive if its conductivity is precautions are the same., A number of factors, for example influence the conductivity of a liquid. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has b Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommute. Atmosphere should be regularly checked against estable.
Other information	 Store below 38 deg. C. Keep dry to avoid corrosion of cans. Corrosion may rest. Store in original containers in approved flammable liqui DO NOT store in pits, depressions, basements or areast. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under prest. Store away from incompatible materials. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommenders.

Conditions for safe storage, including any incompatibilities

use of charcoal and cathartics is equivocal.	
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• Pulmonary absorption is rapid with about 60-65% retained at rest.

• Primary threat to life from ingestion and/or inhalation, is respiratory failure.

+ Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 < 50 mm Hg or pCO2 > 50 mm Hg) should be intubated.

Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.

+ A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.

+ Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.

BIOLOGICAL EXPOSURE INDEX - BEI

These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant	Index	Sampling Time	Comments
Methylhippu-ric acids in urine	1.5 gm/gm creatinine	End of shift	
	2 mg/min	Last 4 hrs of shift	

SECTION 5 FIREFIGHTING MEASURES

Extinguishing media

SMALL FIRE: Water spray, dry chemical or CO2 LARGE FIRE: Water spray or fog.

Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result
ce for firefighters	
Fire Fighting	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach containers suspected to be hot. Cool fire exposed containers from path of fire. If safe to do so, remove containers from path of fire. Equipment should be thoroughly decontaminated after use.
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects. May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include:
	carbon dioxide (CO2) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
Major Spills	 Remove leaking cylinders to a safe place if possible. Release pressure under safe, controlled conditions by opening the valve. DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses

onoxide (CO).

erial

may rupture due to pressure buildup under fire conditions.

eyes. fety glasses. ventilation

ner outdoors, away from all ignition sources, until pressure has dissipated. afely.

of hazard.

ering drains or water courses

o vapour.

s or vermiculite ner outdoors, away from ignition sources, until pressure has dissipated. afely osal.

mulator., A liquid is typically considered nonconductive if its conductivity is below 100 is below 10 000 pS/m., Whether a liquid is nonconductive or semi-conductive, the ple liquid temperature, presence of contaminants, and anti-static additives can greatly

been checked.

ood utensils

ng.

nendations contained within this SDS. ablished exposure standards to ensure safe working conditions are maintained.

esult in container perforation and internal pressure may eject contents of can uid storage area. as where vapours may be trapped.

essure

nendations contained within this SDS.

Chemwatch: 18-3984	Page 5 of 12 Dy-Mark Spray & Mark Std All Colours	Issue Date: 30/05/2020	Chemwatch: 5434-45
Version No: 18.1.1.1		Print Date: 01/06/2020	Version No: 3.1.1.1
	 No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Absorb or cover spill with sand, earth, inert materials or vermiculite. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until press Undamaged cans should be gathered and stowed safely. Collect residues and seal in labelled drums for disposal. 	sure has dissipated.	Storage incompatibility + Avoid + X + X

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling	
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 Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in a upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. 	Safe handling	 Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice.
 Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. 		
	Other information	 Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks.

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
Storage incompatibility	Avoid reaction with oxidising agents
+ X +	

X — Must not be stored together

0 - May be stored together with specific preventions

+ May be stored together

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	acetone	Acetone	500 ppm / 1185 mg/m3	2375 mg/m3 / 1000 ppm	Not Available	Not Available
Australia Exposure Standards	dimethyl ether	Dimethyl ether	400 ppm / 760 mg/m3	950 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
EMERGENCY LIMITS						
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3	
xylene	Xylenes	Xylenes		Not Available	Not Availat	ole
acetone	Acetone		Not Available	Not Available	Not Availat	ole

Storage incompatibility	Avoid reaction with oxidising agents						
X - Must not be stored together			>				
May be stored together with s	specific preventions						
 May be stored together 							
SECTION 8 Exposure contr	ols / personal protection						
Control parameters							
Occupational Exposure Limits (OEL)						
INGREDIENT DATA							
Source	Ingredient	Material name	TWA	STEL		Peak	Notes
Australia Exposure Standards	acetone	Acetone	500 ppm / 1185 mg/m3	2375 n 1000 p	ng/m3 / pm	Not Available	Not Available
Australia Exposure Standards	n-butyl acetate	n-Butyl acetate	150 ppm / 713 mg/m3	950 mg ppm	g/m3 / 200	Not Available	Not Available
Australia Exposure Standards	propylene glycol monomethyl ether acetate, alpha-isomer					Not Available	Not Available
Australia Exposure Standards	hydrocarbon propellant	LPG (liquified petroleum gas)	1000 ppm / 1800 mg/m3	Not Av	ailable	Not Available	Not Available
Emergency Limits			1				1
Ingredient	Material name				TEEL-1	TEEL-2	TEEL-3
acetone	Acetone				Not Available	Not Available	Not Available
n-butyl acetate	Butyl acetate, n-				Not Available	Not Available	Not Available
propylene glycol monomethyl ether acetate, alpha-isomer	Propylene glycol monomethyl ether acet	ate, alpha-isomer; (1-Methox	ypropyl-2-acetate)		Not Available	Not Available	Not Available
naphtha petroleum, light aromatic solvent	Naphtha (coal tar); includes solvent naphtha, petroleum (64742-88-7), naphtha (petroleum) light aliphatic, rubber solvent (64742-89-8), heaevy catalytic cracked (64741-54-4), light straight run 1,200 6,700 40,					40,000 mg/m3	
hydrocarbon propellant	Liquified petroleum gas; (L.P.G.)				65,000 ppm	2.30E+05 ppm	4.00E+05 ppm
Ingredient	Original IDLH		Revised IDLH				
acetone	2,500 ppm	Not Available					
n-butyl acetate	1,700 ppm	Not Available					
propylene glycol monomethyl ether acetate, alpha-isomer	Not Available						
naphtha petroleum, light aromatic solvent	Not Available		Not Available				
hydrocarbon propellant	2,000 ppm		Not Available				

Exposure controls

Appropr

riate engineering controls	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically be The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps "adds" and "removes" air in the work environment. Ventilativentilation system must match the particular process and of Employers may need to use multiple types of controls to p General exhaust is adequate under normal conditions. If ri- obtain adequate protection. Provide adequate ventilation in warehouse or closed stora Air contaminants generated in the workplace possess vary circulating air required to effectively remove the contaminant Type of Contaminant:
	aerosols, (released at low velocity into zone of active ge
	direct spray, spray painting in shallow booths, gas discha
	Within each range the appropriate value depends on:
	Lower end of the range
	1: Room air currents minimal or favourable to capture

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)



ce a barrier between the worker and the hazard. Well-designed engineering controls can be independent of worker interactions to provide this high level of protection.

activity or process is done to reduce the risk.

ps a selected hazard "physically" away from the worker and ventilation that strategically lation can remove or dilute an air contaminant if designed properly. The design of a d chemical or contaminant in use. prevent employee overexposure.

risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to

rage areas.

arying "escape" velocities which, in turn, determine the "capture velocities" of fresh nant.

	Speed:
generation)	0.5-1 m/s
charge (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min.)

Upper end of the range
1: Disturbing room air currents

watch: 18-3984	Page 6 of 12			Issue Date: 30/05/2	
on No: 18.1.1.1	Dy-Mark Spray & Mark S	Std All Colo	ours	Print Date: 01/06/2	
methyl ether	Methyl ether; (Dimethyl ether)	3,000 ppm	3800* ppm	7200* ppm	
drocarbon propellant	Liquified petroleum gas; (L.P.G.)	65,000 ppm 2.30E+05 ppm		4.00E+05 ppm	
gredient	Original IDLH		Revised IDLH		
lene	900 ppm		Not Available		
cetone	2,500 ppm		Not Available		
methyl ether	Not Available		Not Available		
drocarbon propellant	2,000 ppm		Not Available		
oosure controls					
	Engineering controls are used to remove a hazard or place be highly effective in protecting workers and will typically b The basic types of engineering controls are: Process controls which involve changing the way a job act Enclosure and/or isolation of emission source which keeps "adds" and "removes" air in the work environment. Ventilat vertilation system must match the particular process and of Employers may need to use multiple types of controls to pu General exhaust is adequate under normal conditions. If ri- obtain adequate protection. Provide adequate ventilation in warehouse or closed storar Air contaminants generated in the workplace possess vary circulating air required to effectively remove the contaminant	e independent of ivity or process a selected haz ion can remove themical or conf revent employed sk of overexpos ge areas. ing "escape" ve	of worker interactions to provide the is done to reduce the risk. ard "physically" away from the wo or dilute an air contaminant if des aminant in use. e overexposure. ure exists, wear SAA approved re	his high level of protection. where and ventilation that strategically signed properly. The design of a espirator. Correct fit is essential to the "capture velocities" of fresh	
	Type of Contaminant:			Speed:	
Appropriate engineering	aerosols, (released at low velocity into zone of active ge	neration)		0.5-1 m/s	
controls	direct spray, spray painting in shallow booths, gas discha	arge (active gen	eration into zone of rapid air motio	on) 1-2.5 m/s (200-500 f/min.)	
	Within each range the appropriate value depends on:				
	Lower end of the range Upper end of the range				
	1: Room air currents minimal or favourable to capture	1: Disturbi	ng room air currents		
	2: Contaminants of low toxicity or of nuisance value only. 2: Contaminants of high toxicity				
	3: Intermittent, low production. 3: High production, heavy use 4: Large hood or large air mass in motion 4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with dista with the square of distance from the extraction point (in sin accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	nple cases). The ating source. The ed in a tank 2 m extraction appar	erefore the air speed at the extract e air velocity at the extraction fan, eters distant from the extraction p	tion point should be adjusted, for example, should be a minimum of oint. Other mechanical	
Personal protection					
Eye and face protection	 Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact the wearing of lenses or restrictions on use, should be and adsorption for the class of chemicals in use and a their removal and suitable equipment should be readily remove contact lens as soon as practicable. Lens shou a clean environment only after workers have washed h national equivalent] 	created for eac n account of inju v available. In th uld be removed	th workplace or task. This should is any experience. Medical and first-a te event of chemical exposure, be at the first signs of eye redness of	include a review of lens absorption aid personnel should be trained in agin eye irrigation immediately and or irritation - lens should be removed in	
Skin protection	See Hand protection below				
Hands/feet protection	 No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear. 				
Body protection	See Other protection below				
	No special equipment needed when handling small quantit OTHERWISE:	ies.			

Recommended material(s) GLOVE SELECTION INDEX

Respiratory protection

Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001,

Chemwatch: 5434-45

ion No: 3.1.1.1	.1.1 Dy-Mark Spray & Mark - All Colours (Post Nov 2020)				Print Date: 17/	
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of	f high toxicity			
	3: Intermittent, low production.	3: High production	, heavy use			
	4: Large hood or large air mass in motion	4: Small hood-loca	l control only			
	Simple theory shows that air velocity falls rapidly with dista with the square of distance from the extraction point (in sim accordingly, after reference to distance from the contamina 1-2 m/s (200-400 f/min.) for extraction of solvents generate considerations, producing performance deficits within the e factors of 10 or more when extraction systems are installed	ple cases). Therefore t ting source. The air vel d in a tank 2 meters dis xtraction apparatus, ma	he air speed at the e ocity at the extraction stant from the extract	extraction point sl n fan, for exampl tion point. Other	nould be adjusted, e, should be a minimum mechanical	
Personal protection						
Eye and face protection	No special equipment for minor exposure i.e. when handlin OTHERWISE: For potentially moderate or heavy exposure Safety glasses with side shields. NOTE: Contact lenses pose a special hazard; soft lense	s:	and ALL lenses co	ncentrate them.		
Skin protection	See Hand protection below					
Hands/feet protection	 No special equipment needed when handling small quit OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety 					
Body protection	See Other protection below					
	OTHERWISE:					
Other protection	 Overalls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces. Res Ty	piratory protection pe AX Filter of sufficien ISI Z88 or national equi		1716 & 1715, EN	143:2000 & 149:2001,	
commended material(s) GLOVE SELECTION INDEX Glove selection is based on a mod "Forsberg Clothing Performanc	 Overalls. Skin cleansing cream. Eyewash unit. Do not spray on hot surfaces. Res Ty ified presentation of the: e Index". tance(s) are taken into account in the computer- ter (Pact New 2020)	pe AX Filter of sufficien	valent) of gas/particulates ir andard" (or ES), res s with both face-pie	the breathing zo	ne, approaches or n is required.	
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* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner



Page 7 of 12

Dy-Mark Spray & Mark Std All Colours

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index". The effect(s) of the following substance(s) are taken into account in the computer-

nerated selection: Dy-Mark Spray & Mark Std All Colours

Material	CPI
BUTYL	С
BUTYL/NEOPRENE	С
CPE	С
HYPALON	С
NAT+NEOPR+NITRILE	С
NATURAL RUBBER	С
NATURAL+NEOPRENE	С
NEOPRENE	С
NEOPRENE/NATURAL	С
NITRILE	С
NITRILE+PVC	С
PE/EVAL/PE	С
PVA	С
PVC	С
PVDC/PE/PVDC	С
SARANEX-23	С
SARANEX-23 2-PLY	С
TEFLON	С
VITON	С
VITON/NEOPRENE	С

* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory: may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Pearance Flammable coloured liquid; partly miscible with water. Supplied as an aerosol pack. Contents under PRESSURE . Contains highly flammable hydrocarbon propellant.			
Physical state	Liquid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	-81 (propellant)	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	>50 (VOC)	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Partly miscible	pH as a solution (1%)	Not Available	
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available	

SECTION 10 STABILITY AND REACTIVITY

Reactivity See section 7

ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

Required Minimum Protection Factor	Half-Face Respirator	Full-Face Respirator	Powered Air Respirator
up to 10 x ES	AX-AUS / Class 1	-	AX-PAPR-AUS / Class 1
up to 50 x ES	Air-line*	-	-
up to 100 x ES	-	AX-3	-
100+ x ES	-	Air-line**	-

* - Continuous-flow; ** - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- ▶ Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

Chemwatch: 5434-45 Version No: 3.1.1.1

should be consulted.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Highly flammable liquid; does not mix with water.			
Physical state	Liquid	Relative density (Water = 1)	Not Available	
Odour	Not Available	Partition coefficient n-octanol / water	Not Available	
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available	
pH (as supplied)	Not Applicable	Decomposition temperature	Not Available	
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available	
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Applicable	
Flash point (°C)	Not Available	Taste	Not Available	
Evaporation rate	Not Available	Explosive properties	Not Available	
Flammability	Not Available	Oxidising properties	Not Available	
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available	
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available	
Vapour pressure (kPa)	Not Available	Gas group	Not Available	
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable	
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available	

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
azardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

Inhaled	Inhalation of vapours may cause drowsiness and dizzines co-ordination, and vertigo. Isobutane produces a dose dependent action and at high nausea, confusion, incoordination and unconsciousness in The main effects of simple esters are irritation, stupor and occur. The paraffin gases are practically not harmful at low dose: Inhalation of high concentrations of gas/vapour causes lun dizziness, slowing of reflexes, fatigue and inco-ordination. Central nervous system (CNS) depression may include ge effects, slowed reaction time, slurred speech and may pro- may be fatal. Nerve damage can be caused by some non-ring hydrocar some convulsions, excessive tears with discolouration and Material is highly volatile and may quickly form a concentr replace air in breathing zone, acting as a simple asphyxia Animal testing showed no toxic effects from inhaling PGM caused no effects. WARNING:Intentional misuse by concentrating/inhaling c Exposure to hydrocarbons may result in irregularity of hear individual. There is some evidence to suggest that the material can of cause further lung damage.
Ingestion	Accidental ingestion of the material may be damaging to t Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/indus Isoparaffinic hydrocarbons cause temporary lethargy, wea

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

ess. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of

h concentrations may cause numbness, suffocation, exhilaration, dizziness, headache, in severe cases.

d insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may

es. Higher doses may produce reversible brain and nerve depression and irritation. ung irritation with coughing and nausea, central nervous depression with headache and

general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic rogress to unconsciousness. Serious poisonings may result in respiratory depression and

arbons. Symptoms are temporary, and include weakness, tremors, increased saliva, ind inco-ordination lasting up to 24 hours.

trated atmosphere in confined or unventilated areas. The vapour may displace and ant. This may happen with little warning of overexposure MEA except at very high concentrations. A concentration of 1000 parts per million (0.1%)

contents may be lethal.

eart beat. Symptoms of moderate poisoning may include dizziness, headache, nausea. naterial during the course of normal handling, may be damaging to the health of the

cause respiratory irritation in some persons. The body's response to such irritation can

the health of the individual

strial environments eakness, inco-ordination and diarrhoea

Page 8 of 12

Dy-Mark Spray & Mark Std All Colours

Issue Date: 30/05/2020 Print Date: 01/06/2020 Chemwatch: 5434-45 Page 8 of 14 Version No: 3.1.1.1 Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

Chemical stability	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects Inhalation of aerosols (mists, fumes), generated by the material during the course of normal handling, may be harmful. Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo There is some evidence to suggest that the material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage The acute toxicity of inhaled alkylbenzene is best described by central nervous system depression. These compounds may also act as general anaesthetics. Whole body symptoms of poisoning include light-headedness, nervousness, apprehension, a feeling of well-being, confusion, dizziness, drowsiness, ringing in the ears, blurred or double vision, vomiting and sensations of heat, cold or numbness, twitching, tremors, convulsions, unconsciousness, depression of breathing, and arrest. Heart stoppage may result from cardiovascular collapse. A slow heart rate and low blood pressure may also occur. Alkylbenzenes are not generally toxic except at high levels of exposure. Their breakdown products have low toxicity and are easily eliminated from the body. Inhaled Inhalation of toxic gases may cause: Central Nervous System effects including depression, headache, confusion, dizziness, stupor, coma and seizures; respiratory: acute lung swellings, shortness of breath, wheezing, rapid breathing, other symptoms and respiratory arrest; heart: collapse, irregular heartbeats and cardiac arrest; gastrointestinal: irritation, ulcers, nausea and vomiting (may be bloody), and abdominal pain. Following inhalation, ethers cause lethargy and stupor. Inhaling lower alkyl ethers results in headache, dizziness, weakness, blurred vision, seizures and possible coma. Material is highly volatile and may quickly form a concentrated atmosphere in confined or unventilated areas. The vapour may displace and replace air in breathing zone, acting as a simple asphyxiant. This may happen with little warning of overexposure Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination. RNING:Intentional misuse by concentrating/inhaling contents may be lethal. Accidental ingestion of the material may be damaging to the health of the individual. Not normally a hazard due to physical form of product. Considered an unlikely route of entry in commercial/industrial environments Ingestion Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733) Ingestion of alkyl ethers may produce stupor, blurred vision, headache, dizziness and irritation of the nose and throat. Respiratory distress and asphyxia may result. Skin contact with the material may be harmful; systemic effects may result following absorption. The material may cause moderate inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. The material may accentuate any pre-existing dermatitis condition Skin Contact Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Spray mist may produce discomfort Alkyl ethers may defat and dehydrate the skin producing dermatoses. Absorption may produce headache, dizziness, and central nervous system depression Open cuts, abraded or irritated skin should not be exposed to this material Not considered to be a risk because of the extreme volatility of the gas. Eye contact with alkyl ethers (vapour or liquid) may produce irritation, redness and tears. Eye There is evidence that material may produce eye irritation in some persons and produce eye damage 24 hours or more after instillation. Severe inflammation may be expected with pain. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby. Main route of exposure to the gas in the workplace is by inhalation. Chronic Chronic exposure to alkyl ethers may result in loss of appetite, excessive thirst, fatigue, and weight loss. Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity. Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] TOXICITY IRRITATION Dy-Mark Spray & Mark Std All Colours Not Available Not Available TOXICITY IRRITATION Dermal (rabbit) LD50: >1700 mg/kg^[2] Eye (human): 200 ppm irritant Inhalation (rat) LC50: 4994.295 mg/l/4h^[2] Eye (rabbit): 5 mg/24h SEVERE xylen Oral (rat) LD50: 3523-8700 mg/kg^[2] Eye (rabbit): 87 mg mild Eye: adverse effect observed (irritating)^[1] Skin (rabbit):500 mg/24h moderate

Skin Contact	Repeated exposure may cause skin cracking, flaking or drying folk Skin contact with the material may damage the health of the individ Skin exposure to isoparaffins may produce slight to moderate irrita occurred. Animal testing showed repeated application of commercial grade F Spray mist may produce discomfort Open cuts, abraded or irritated skin should not be exposed to this is Entry into the blood-stream, through, for example, cuts, abrasions prior to the use of the material and ensure that any external damag There is some evidence to suggest that the material may cause mi a delay of some time. Repeated exposure can cause contact derm
Eye	Instillation of isoparaffins into rabbit eyes produces only slight irrita Not considered to be a risk because of the extreme volatility of the Undiluted propylene glycol monomethyl ether acetate (PGMEA) ca the cornea in animal testing. There is evidence that material may produce eye irritation in some inflammation may be expected with pain. The liquid may produce eye discomfort and is capable of causing t
Chronic	Prolonged or repeated skin contact may cause drying with cracking Substance accumulation, in the human body, may occur and may There is some evidence from animal testing that exposure to this in Some glycol esters and their ethers cause wasting of the testicles, compounds are more dangerous. Constant or exposure over long periods to mixed hydrocarbons ma and anaemia, and reduced liver and kidney function. Skin exposure Animal testing shows repeated exposure to higher concentrations kidney damage. The beta-isomer, a minor component, may cause not been shown to have developmental toxicity. It may damage the Main route of exposure to the gas in the workplace is by inhalation Workers exposed to acetone for long periods showed inflammatior strength. Exposure to acetone may enhance the liver toxicity of chi WARNING: Aerosol containers may present pressure related haza
Dy-Mark Spray & Mark - All Colours (Post Nov 2020)	TOXICITY Not Available

200 mg/kg^[2]

6000 mg/kg^[1]

n-butyl acetate

Dermal (rabbit) LD50: 3200 mg/kg^[2] Inhalation (rat) LC50: 389.55501 mg/l/4h^[2]

Oral (guinea pig) LD50: 4700 mg/kg^[2]

Oral (rabbit) LD50: 3200 mg/kg^[2]

Oral (rat) LD50: =10700 mg/kg^[2]

Oral (rat) LD50: =12700 mg/kg^[2]

Oral (rat) LD50: 10768 mg/kg^[2]

Oral (rat) LD50: 13100 mg/kg^[2]

Continued.

rying following normal handling and use.

he individual; systemic effects may result following absorption.

rate irritation in animals and humans. Rare sensitisation reactions in humans have

I grade PGMEA to skin caused slight redness and very mild exfoliation

d to this material

brasions or lesions, may produce systemic injury with harmful effects. Examine the skin al damage is suitably protected.

cause mild but significant inflammation of the skin either following direct contact or after tact dermatitis which is characterised by redness, swelling and blistering

light irritation

ity of the gas.

SMEA) causes moderate discomfort, slight redness of the conjunctiva and slight injury to

in some persons and produce eye damage 24 hours or more after instillation. Severe

causing temporary impairment of vision and/or transient eye inflammation, ulceration

n cracking, irritation and possible dermatitis following

and may cause some concern following repeated or long-term occupational exposure. e to this material may result in toxic effects to the unborn baby

testicles, reproductive changes, infertility and changes to kidney function. Shorter chain

rbons may produce stupor with dizziness, weakness and visual disturbance, weight loss exposure may result in drying and cracking and redness of the skin.

ntrations of propylene glycol monomethyl ether acetate (PGMEA) causes mild liver and ay cause birth defects if PGMEA is inhaled during pregnancy. Otherwise, PGMEA has mage the foetus but only at levels that are also toxic to the mother.

ammation of the airways, stomach and small bowel, attacks of giddiness and loss of city of chlorinated solvents.

ted hazards.

IRRITATION Not Available	
IRRITATION	
Eye (human): 500 ppm - irritant	
Eye (rabbit): 20mg/24hr -moderate	
Eye (rabbit): 3.95 mg - SEVERE	
Eye: adverse effect observed (irritating) ^[1]	
Skin (rabbit): 500 mg/24hr - mild	
Skin (rabbit):395mg (open) - mild	
Skin: no adverse effect observed (not irritating	ıg) ^[1]
IRRITATION	
Eye (human): 300 mg	
Eye (rabbit): 20 mg (open)-SEVERE	
Eye (rabbit): 20 mg/24h - moderate	
Eye: no adverse effect observed (not irritating	g)[1]
Skin (rabbit): 500 mg/24h-moderate	
Skin: no adverse effect observed (not irritating	na)[1]
	.3/

Page 9 of 12

Dy-Mark Spray & Mark Std All Colours

Issue Date: 30/05/2020 Print Date: 01/06/2020 Chemwatch: 5434-45 Version No: 3.1.1.1

Page 9 of 14

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

		Skin: adverse effect observed (irritating) ^[1]	
	тохісіту	IRRITATION	
	Dermal (rabbit) LD50: =20 mg/kg ^[2]	Eye (human): 500 ppm - irritant	
	Inhalation (rat) LC50: 100.2 mg/l/8hr ^[2]	Eye (rabbit): 20mg/24hr -moderate	
	Oral (rat) LD50: 1800-7300 mg/kg ^[2]	Eye (rabbit): 3.95 mg - SEVERE	
acetone		Eye: adverse effect observed (irritating) ^[1]	
		Skin (rabbit): 500 mg/24hr - mild	
		Skin (rabbit):395mg (open) - mild	
		Skin: no adverse effect observed (not irritating) ^[1]	
	TOXICITY	IRRITATION	
dimethyl ether	Inhalation (rat) LC50: 309 mg/l/4H ^[2]	Not Available	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
hydrocarbon propellant	Not Available	Not Available	
Legend:	 Value obtained from Europe ECHA Registered Substances - Acute to specified data extracted from RTECS - Register of Toxic Effect of chemic 		

XYLENE	Reproductive effector in rats The material may produce severe irritation to the eye produce conjunctivitis. The substance is classified by IARC as Group 3: NOT classifiable as to its carcinogenicity to humans. Evidence of carcinogenicity may be inadequate or lim		epeated or prolonged exposure to irritants may
HYDROCARBON PROPELLANT	No significant acute toxicological data identified in lite	rature search. inhalation of the gas	
Dy-Mark Spray & Mark Std All Colours & ACETONE	For acetone: The acute toxicity of acetone is low. Acetone is not a testing shows acetone may cause macrocytic anaemi metre has not caused neurobehavioural deficits.		es fat from the skin, and it also irritates the eye. Animal t exposure to acetone at a level of 2375 mg/cubic
XYLENE & ACETONE	The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin.	or repeated exposure and may produ	ice on contact skin redness, swelling, the production of
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×

Legend: X – Data either not available or does not fill the criteria for classification - Data available to make classification

SECTION 12 ECOLOGICAL INFORMATION

Тох	icity	

Dy-Mark Spray & Mark Std All Colours	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	Not Available	Not Available	Not Available	Not Available	Not Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	2.6mg/L	2
xylene	EC50	48	Crustacea	1.8mg/L	2
	EC50	72	Algae or other aquatic plants	3.2mg/L	2
	NOEC	73	Algae or other aquatic plants	0.44mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	5-540mg/L	2
acetone	EC50	48	Crustacea	>100mg/L	4
	EC50	96	Algae or other aquatic plants	20.565mg/L	4
	NOEC	240	Crustacea	1-866mg/L	2
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
dimethyl ether	LC50	96	Fish	1-783.04mg/L	2
-	EC50	48	Crustacea	>4400.0mg/L	2

	ΤΟΧΙΟΙΤΥ	IRRITATION
and and all and an an attend	>3100 mg/kg ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
propylene glycol monomethyl ether acetate, alpha-isomer	 Dermal (rabbit) LD50: >5000 mg/kg ^[2]	Skin: no adverse effect observed (not irritating) ^[1]
	Inhalation (rat) LC50: 6510.0635325 mg/l/6h ^[2]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
	Inhalation (rat) LC50: >7331.62506 mg/l/8h*[2]	Eye: no adverse effect observed (not irritating) ^[1]
	Oral (rat) LD50: >4500 mg/kg ^[1]	Skin: adverse effect observed (irritating) ^[1]
naphtha petroleum, light	Oral (rat) LD50: >5000 mg/kg ^[1]	
aromatic solvent	Oral (rat) LD50: >5570 mg/kg ^[1]	
	Oral (rat) LD50: >7000 mg/kg ^[1]	
	Oral (rat) LD50: 14063 mg/kg ^[1]	
	Oral (rat) LD50: 6620 mg/kg ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION
hydrocarbon propellant	Not Available	Not Available
Legend:	1. Value obtained from Europe ECHA Registered Substances - Acute specified data extracted from RTECS - Register of Toxic Effect of cher	toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise mical Substances
ACETONE		nsitizer, but it removes fat from the skin, and it also irritates the eye. Animal nans have shown that exposure to acetone at a level of 2375 mg/cubic
N-BUTYL ACETATE	and most tissues throughout the body. Following hydrolysis the compo Oral acute toxicity studies have been reported for 51 of the 67 esters carboxylic acids. The very low oral acute toxicity of this group of ester Genotoxicity studies have been performed in vitro using the following carboxylic acids: methyl acetate, butyl acetate, butyl stearate and the substances are not genotoxic. The JEFCA Committee concluded that the substances in this group w of aliphatic acyclic primary alcohols and aliphatic linear saturated carb flavouring substances up to average maximum levels of 200 mg/kg. H such as chewing gum and hard candy. In Europe the upper use level special food categories like candy and alcoholic beverages up to 300 Internationl Program on Chemical Safety: the Joint FAO/WHO Ex Esters of Aliphatic acyclic primary alcohols with aliphatic linear sa The material may produce severe irritation to the eye causing pronour produce conjunctivitis.	of aliphatic acyclic primary alcohols and aliphatic linear saturated rs is demonstrated by oral LD50 values greater than 1850 mg/kg bw esters of aliphatic acyclic primary alcohols and aliphatic linear saturated structurally related isoamyl formate and demonstrates that these ould not present safety concerns at the current levels of intake the esters ioxylic acids are generally used as igher levels of use (up to 3000 mg/kg) are permitted in food categories s for these flavouring substances are generally 1 to 30 mg/kg foods and in mg/kg foods pert Committee on Food Additives (JECFA) saturated carboxylic acids.; 1998 need inflammation. Repeated or prolonged exposure to irritants may
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE, ALPHA-ISOMER	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. A BASF report (in ECETOC) showed that inhalation exposure to 545 ppm PGMEA (beta isomer) was associated with a teratogenic response in rabbits; but exposure to 145 ppm and 36 ppm had no adverse effects. The beta isomer of PGMEA comprises only 10% of the commercial material, the remaining 90% is alpha isomer. Hazard appears low but emphasizes the need for care in handling this chemical. [I.C.I] *Shin-Etsu SDS For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol on the tars has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on the reproductive organs, the developing embryo and foetus, blood or thymus gland, are not seen with the commercial-grade propylene glycol ethers in the ethylene series metabolism of the terminal hydroxyl group produces and takoxyacetic acid. The reproductive and developmental toxicities of the lower molecular weight homologues in the ethylene series are not associated with reproductive toxicity, but can cause haemolysis in sensitive species, als through formation of an alkoxyacetic acid. The predominant alpha isomer of PGEs) is a secondary alcohoi incapable of forming an alkoxypropionic acid. In contrast, beta-isomers are able to form the alkoxypropionic acids and these are linked to birth defects (and possibly, haemolytic effects). The alpha isomer comprises more than 95% of the isomeric mixture in the commercial product, and therefore PGEs show relatively little toxicity. One of the main metabolites of the propylene glyco	
	Inhalation (rat) TCLo: 1320 ppm/6h/90D-1 * [Devoe] For Low Boiling Point Naphthas (LBPNs): Acute toxicity: LBPNs generally have low acute toxicity by the oral (median lethal do	se [LD50] in rats > 2000 mg/kg-bw), inhalation (LD50 in rats > 5000 mg/m3)

NAPHTHA PETROLEUM, LIGHT AROMATIC SOLVENT

naphthas, which have higher primary skin irritation indices. Sensitisation: LBPNs do not appear to be skin sensitizers, but a poor response in the positive control was also noted in these studies Repeat dose toxicity:

LBPNs generally have low acute toxicity by the oral (median lethal dose [LD50] in rats > 2000 mg/kg-bw), inhalation (LD50 in rats > 5000 mg/m3) and dermal (LD50 in rabbits > 2000 mg/kg-bw) routes of exposure

Most LBPNs are mild to moderate eye and skin irritants in rabbits, with the exception of heavy catalytic cracked and heavy catalytic reformed

Issue Date: 30/05/2020 Print Date: 01/06/2020

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

	EC50	96	Algae or other aquatic plants	154.917mg/L	2
	NOEC	48	Crustacea	>4000mg/L	1
hydrocarbon propellant	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
	LC50	96	Fish	24.11mg/L	2
	EC50	96	Algae or other aquatic plants	7.71mg/L	2
	LC50	96	Fish	24.11mg/L	2
	EC50	96	Algae or other aquatic plants	7.71mg/L	2
Legend:	Extracted from	1. IUCLID Toxicity Data 2. Europe ECHA Registe	ered Substances - Ecotoxicological Informati	ion - Aquatic Toxicity 3.	EPIWIN Suit

V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

Harmful to aquatic organisms

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DO NOT discharge into sewer or waterways
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Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
dimethyl ether	LOW	LOW

Bioaccumulative potential

xylene	MEDIUM (BCF = 740)	
acetone	LOW (BCF = 0.69)	
dimethyl ether	LOW (LogKOW = 0.1)	

Ingredient	Mobility
acetone	HIGH (KOC = 1.981)
dimethyl ether	HIGH (KOC = 1.292)

SECTION 13 DISPOSAL CONSIDERATIONS

Waste treatment methods	
Product / Packaging disposal	 DO NOT allow wash water from cleaning or process equipment to enter drains. It may be necessary to collect all wash water for treatment before disposal. In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first. Where in doubt contact the responsible authority. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site.

SECTION 14 TRANSPORT INFORMATION

abels Required	
Marine Pollutant	NO
HAZCHEM	Not Applicable
and transport (ADG) UN number	1950
	1950 AEROSOLS
UN number	
UN number UN proper shipping name	AEROSOLS Class 2.1

The lowest-observed-adverse-effect concentration (LOAEC) and lowest-observed-adverse-effect level (LOAEL) values identified following short-term (2-89 days) and subchronic (greater than 90 days) exposure to the LBPN substances. These values were determined for a variety of endpoints after considering the toxicity data for all LBPNs in the group. Most of the studies were carried out by the inhalation route of exposure. Renal effects, including increased kidney weight, renal lesions (renal tubule dilation, necrosis) and hyaline droplet formation, observed in male rats exposed orally or by inhalation to most LBPNs, were considered species- and sex-specific These effects were determined to be due to a mechanism of action not relevant to humans -specifically, the interaction between hydrocarbon metabolites and alpha-2-microglobulin, an enzyme not produced in substantial amounts in female rats, mice and other species, including humans. The resulting nephrotoxicity and subsequent carcinogenesis in male rats were therefore not considered in deriving LOAEC/LOAEL values. Only a limited number of studies of short-term and subchronic duration were identified for site-restricted LBPNs. The lowest LOAEC identified in these studies, via the inhalation route, is 5475 mg/m3, based on a concentration-related increase in liver weight in both male and female rats following a 13-week exposure to light catalytic cracked naphtha. Shorter exposures of rats to this test substance resulted in nasal irritation at 9041 ma/m3

No systemic toxicity was reported following dermal exposure to light catalytic cracked naphtha, but skin irritation and accompanying histopathological changes were increased, in a dose-dependent manner, at doses as low as 30 mg/kg-bw per day when applied 5 days per week for 90 days in rats

No non-cancer chronic toxicity studies (= 1 year) were identified for site-restricted LBPNs and very few non-cancer chronic toxicity studies were identified for other LBPNs. An LOAEC of 200 mg/m3 was noted in a chronic inhalation study that exposed mice and rats to unleaded gasoline (containing 2% benzene). This inhalation LOAEC was based on ocular discharge and ocular irritation in rats. At the higher concentration of 6170 mg/m3, increased kidney weight was observed in male and female rats (increased kidney weight was also observed in males only at 870 mg/m3). Furthermore, decreased body weight in male and female mice was also observed at 6170 mg/m3 A LOAEL of 714 mg/kg-bw was identified for dermal exposure based on local skin effects (inflammatory and degenerative skin changes) in mice following application of naphtha for 105 weeks. No systemic toxicity was reported. Genotoxicity:

Although few genotoxicity studies were identified for the site-restricted LBPNs, the genotoxicity of several other LBPN substances has been evaluated using a variety of in vivo and in vitro assays. While in vivo genotoxicity assays were negative overall, the in vitro tests exhibited mixed results.

For in vivo genotoxicity tests, LBPNs exhibited negative results for chromosomal aberrations and micronuclei induction, but exhibited positive results in one sister chromatid exchange assay although this result was not considered definitive for clastogenic activity as no genetic material was unbalanced or lost. Mixtures that were tested, which included a number of light naphthas, displayed mixed results (i.e., both positive and negative for the same assay) for chromosomal aberrations and negative results for the dominant lethal mutation assay. Unleaded gasoline (containing 2% benzene) was tested for its ability to induce unscheduled deoxyribonucleic acid (DNA) synthesis (UDS) and replicative DNA synthesis (RDS) in rodent hepatocytes and kidney cells. UDS and RDS were induced in mouse hepatocytes via oral exposure and RDS was induced in rat kidney cells via oral and inhalation exposure. Unleaded gasoline (benzene content not stated) exhibited negative results for chromosomal aberrations and the dominant lethal mutation assay and mixed results for atvpical cell foci in rodent renal and hepatic cells. For in vitro genotoxicity studies, LBPNs were negative for six out of seven Ames tests, and were also negative for UDS and for forward mutations LBPNs exhibited mixed or equivocal results for the mouse lymphoma and sister chromatid exchange assays, as well as for cell transformation and positive results for one bacterial DNA repair assay. Mixtures that were tested, which included a number of light naphthas, displayed negative results for the Ames and mouse lymphoma assays Gasoline exhibited negative results for the Ames test battery, the sister chromatid exchange assay and for one mutagenicity assay . Mixed results were observed for UDS and the mouse lymphoma assay. While the majority of in vivo genotoxicity results for LBPN substances are negative, the potential for genotoxicity of LBPNs as a group cannot be discounted based on the mixed in vitro genotoxicity results. Carcinogenicity:

Although a number of epidemiological studies have reported increases in the incidence of a variety of cancers, the majority of these studies are considered to contain incomplete or inadequate information. Limited data, however, are available for skin cancer and leukemia incidence, as well as mortality among petroleum refinery workers. It was concluded that there is limited evidence supporting the view that working in petroleum refineries entails a carcinogenic risk (Group 2A carcinogen). IARC (1989a) also classified gasoline as a Group 2B carcinogen; it considered the evidence for carcinogenicity in humans from gasoline to be inadequate and noted that published epidemiological studies had several limitations, including a lack of exposure data and the fact that it was not possible to separate the effects of combustion products from those of gasoline itself. Similar conclusions were drawn from other reviews of epidemiological studies for gasoline (US EPA 1987a, 1987b). Thus, the evidence gathered from these epidemiological studies is considered to be inadequate to conclude on the effect s of human exposure to LBPN substances.

No inhalation studies assessing the carcinogenicity of the site-restricted LBPNs were identified. Only unleaded gasoline has been examined for its carcinogenic potential, in several inhalation studies. In one study, rats and mice were exposed to 0, 200, 870 or 6170 mg/m3 of a 2% benzene formulation of the test substance, via inhalation, for approximately 2 years. A statistically significant increase in hepatocellular adenomas and carcinomas, as well as a non-statistical increase in renal tumours, were observed at the highest dose in female mice. A dose-dependent increase in the incidence of primary renal neoplasms was also detected in male rats, but this was not considered to be relevant to humans, as discussed previously.Carcinogenicity was also assessed for unleaded gasoline, via inhalation, as part of initiation/promotion studies. In these studies, unleaded gasoline did not appear to initiate tumour formation, but did show renal cell and hepatic tumour promotion ability, when rats and mice were exposed, via inhalation, for durations ranging from 13 weeks to approximately 1 year using an initiation/promotion protocol However, further examination of data relevant to the composition of unleaded gasoline demonstrated that this is a highly-regulated substance; it is expected to contain a lower percentage of benzene and has a discrete component profile when compared to other substances in the LBPN group. Both the European Commission and the International Agency for Research on Cancer (IARC) have classified LBPN substances as carcinogenic. All of these substances were classified by the European Commission (2008) as Category 2 (R45: may cause cancer) (benzene content = 0.1% by weight). IARC has classified gasoline, an LBPN, as a Group 2B carcinogen (possibly carcinogenic to humans) and "occupational exposures in petroleum refining" as Group 2A carcinogens (probably carcinogenic to humans). Several studies were conducted on experimental animals to investigate the dermal carcinogenicity of LBPNs. The majority of these studies were conducted through exposure of mice to doses ranging from 694-1351 mg/kg-bw, for durations ranging from 1 year to the animals' lifetime or until a tumour persisted for 2 weeks. Given the route of exposure, the studies specifically examined the formation of skin tumours. Results for carcinogenicity via dermal exposure are mixed. Both malignant and benign skin tumours were induced with heavy catalytic cracked naphtha, light catalytic cracked naphtha, light

straight-run naphtha and naphtha Significant increases in squamous cell carcinomas were also observed when mice were dermally treated with Stoddard solvent, but the latter was administered as a mixture (90% test substance), and the details of the study were not available. In contrast, insignificant increases in tumour formation or no tumours were observed when light alkylate naphtha, heavy catalytic reformed naphtha, sweetened naphtha, light catalytically cracked naphtha or unleaded gasoline was dermally applied to mice. Negative results for skin tumours were also observed in male mice dermally exposed to sweetened naphtha using an initiation/promotion protocol. Reproductive/ Developmental toxicity:

No reproductive or developmental toxicity was observed for the majority of LBPN substances evaluated. Most of these studies were carried out by inhalation exposure in rodents.

NOAEC values for reproductive toxicity following inhalation exposure ranged from 1701 mg/m3 (CAS RN 8052-41-3) to 27 687 mg/m3 (CAS RN 64741-63-5) for the LBPNs group evaluated, and from 7690 mg/m3 to 27 059 mg/m3 for the site-restricted light catalytic cracked and full-range catalytic reformed naphthas. However, a decreased number of pups per litter and higher frequency of post-implantation loss were observed following inhalation exposure of female rats to hydrotreated heavy naphtha (CAS RN 64742-48-9) at a concentration of 4679 mg/m3, 6 hours per day, from gestational days 7-20. For dermal exposures, NOAEL values of 714 mg/kg-bw (CAS RN 8030-30-6) and 1000 mg/kg-bw per day (CAS RN 68513-02-0) were noted . For oral exposures, no adverse effects on reproductive parameters were reported when rats were given site-restricted light catalytic cracked naphtha at 2000 mg/kg on gestational day 13 . For most LBPNs, no treatment-related developmental effects were observed by the different routes of exposure However, developmental toxicity was observed for a few naphthas. Decreased foetal body weight and an increased incidence of ossification variations were observed when rat

mwatch: 18-3984	Page 11 of 12	Issue Date: 30/05/2020			
ion No: 18.1.1.1	Dy-Mark Spray & Mark Std	Print Date: 01/06/2020			
	Special provisions 63 190 277 327 344 381				
Special precautions for user	Limited quantity 1000ml				
r transport (ICAO-IATA / DGR)				
UN number	1950				
UN proper shipping name	Aerosols, flammable				
	ICAO/IATA Class 2.1				
Transport hazard class(es)	ICAO / IATA Subrisk Not Applicable				
	ERG Code 10L				
Packing group	Not Applicable				
Environmental hazard	Not Applicable				
	Special provisions	A145 A167 A802			
	Cargo Only Packing Instructions	203			
	Cargo Only Maximum Qty / Pack	150 kg			
Special precautions for user	Passenger and Cargo Packing Instructions	203			
	Passenger and Cargo Maximum Qty / Pack	75 kg			
	Passenger and Cargo Limited Quantity Packing Instructions	Y203			
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G			

Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class 2.1 IMDG Subrisk Not Applicable		
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS NumberF-D , S-USpecial provisions63 190 277 327 344 381 959Limited Quantities1000 ml		

Schedule 6

Monographs

Schedule 5

Schedule 5

Schedule 5

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -

Chemical Footprint Project - Chemicals of High Concern List

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

XYLENE IS FOUND ON THE FOLLOWING REGULATORY LISTS
Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
Australia Inventory of Chemical Substances (AICS)
Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 5 $$

ACETONE IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

DIMETHYL ETHER IS FOUND ON THE FOLLOWING REGULATORY LISTS Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Inventory of Chemical Substances (AICS)

HYDROCARBON PROPELLANT IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Inventory of Chemical Substances (AICS)

National	Inven	tory Status	

National Inventory	Status
Australia - AICS	Yes
Canada - DSL	Yes
Canada - NDSL	No (xylene; acetone; dimethyl ether; hydrocarbon propellant)
China - IECSC	Yes

Version No: 3.1.1.1	Dy-Mark Spray & Mark - All	Co
Version No: 3.1.1.1	dams were exposed to light aromatized solvent naphtl to hydrotreated heavy naphtha at 4679 mg/m3 deliver in the offspring. Low Boiling Point Naphthas [Site-Restricted] Animal studies indicate that normal, branched and cyo n-paraffins is inversely proportional to the carbon chai be present in mineral oil, n-paraffins may be absorbed hydrocarbons are ingested in association with fats in t gut lymph, but most hydrocarbons are well absorbed hydrocarbons are ingested in association with fats in t gut lymph, but most hydrocarbons partly separate from determining the proportion of hydrocarbon that become or the liver. For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after exp contact are the most important routes of absorption; w caused by the chemical generally leads to quick remo blood cells in the bloodstream. It is excreted from the Acute toxicity: Direct contact with liquid 1,2,4-trimethyl lung inflammation. Breathing high concentrations of th trimethylbenzene is irritating to the skin and inhalation vessels, redness and irritation. Nervous system toxicity: Long-term exposure to solv of the bronchi. Painters that worked for several years is showed nervousness, tension and anxiety, asthmatic I trace amounts of benzene. Animal testing showed that increase in neutrophils. Genetic toxicity: Animal testing does not show that the Developmental / reproductive toxicity: Animal testing For C9 aromatics (typically trimethylbenzenes – TMBs Acute toxicity: Animal testing shows that semi-lethal c inhalation range from 6000 to 10000 mg/cubic metre respectively. Irritation and sensitization: Results from animal testing skin, minimally irritating to the eye, and have the poter it sensitizes skin. Repeated dose toxicity: Animal studies show that chro exposure does not appear to pose a high toxicity haza Mutation-causing ability: No evidence of mutation-cau Reproductive and developmental toxicity: No definitive may been seen at concentrations that are toxic to the For petroleum: This product contains benzene, whi	ha, b red p clic pa in len d to a l into the di m fats nes ar oosurre vhole- val. 1 body libenz ne chu e chu
		petro conce em o ause rials.
HYDROCARBON PROPELLANT	No significant acute toxicological data identified in liter	rature
ACETONE & N-BUTYL ACETATE	The material may cause skin irritation after prolonged vesicles, scaling and thickening of the skin.	or re
Acute Toxicity	×	
Skin Irritation/Corrosion	×	
Serious Eye Damage/Irritation	×	
Respiratory or Skin sensitisation	×	
Mutagenicity	×	

SECTION 12 Ecological information

Т

Chemwatch: 5434-45

Toxicity					
Dy-Mark Spray & Mark - All Colours (Post Nov 2020)	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Available
acetone	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	5-540mg/L	2
	EC50	48	Crustacea	6098.4mg/L	5
	NOEC	240	Crustacea	1-866mg/L	2

Continued...

plours (Post Nov 2020)

by gavage, at 1250 mg/kg-bw per day. In addition, pregnant rats exposed by inhalation oups with higher birth weights. Cognitive and memory impairments were also observed

paraffins are absorbed from the gastrointestinal tract and that the absorption of ngth, with little absorption above C30. With respect to the carbon chain lengths likely to greater extent than iso- or cyclo-paraffins.

the gastrointestinal tract in various species. In many cases, the hydrophobic liet. Some hydrocarbons may appear unchanged as in the lipoprotein particles in the ts and undergo metabolism in the gut cell. The gut cell may play a major role in available to be deposited unchanged in peripheral tissues such as in the body fat stores

re by swallowing, inhalation, or skin contact. In the workplace, inhalation and skin e-body toxic effects from skin absorption are unlikely to occur as the skin irritation The substance is fat-soluble and may accumulate in fatty tissues. It is also bound to red where by exhaustion and in the urine

zene is irritating to the skin, and breathing the vapour is irritating to the airway, causing nemical vapour causes headache, fatique and drowsiness. In humans, liquid 1,2,4he vapour causes chemical pneumonitis. Direct skin contact causes dilation of blood

es the central nervous system. Exposure to solvent mixtures in the workplace containing drowsiness.

s containing 1,2,4-trimethylbenzene may cause nervousness, tension and inflammation a solvent containing 50% 1,2,4-trimethylbenzene and 30% 1,3,5-trimethylbenzene nchitis, anaemia and changes in blood clotting; blood effects may have been due to naling trimethylbenzene may alter blood counts, with reduction in lymphocytes and an

fraction causes mutations or chromosomal aberrations. ved that the C9 fraction of 1.2.4-trimethylbenzene caused reproductive toxicity.

entrations and doses vary amongst this group. The semilethal concentrations for 29 aromatic naphtha and 18000-24000 mg/cubic metre for 1,2,4- and 1,3,5-TMB,

licate that C9 aromatic hydrocarbon solvents are mildly to moderately irritating to the to irritate the airway and cause depression of breathing rate. There is no evidence that

inhalation toxicity for C9 aromatic hydrocarbon solvents is slight. Similarly, oral or pure trimethylbenzene isomers.

ability and genetic toxicity was found in animal and laboratory testing.

ects on reproduction were seen, although reduction in weight in developing animals her

cause acute myeloid leukaemia, and n-hexane, which can be metabolized to roduct contains toluene, and animal studies suggest high concentrations of toluene lead

naphthalene, from which animal testing shows evidence of tumour formation. etroleum causes tumours of the liver and kidney; these are however not considered to

have returned negative results regarding the potential to cause mutations, including ol service station attendants).

entrations of toluene (>0.1%) can cause developmental effects such as lower birth of the foetus. Other studies show no adverse effects on the foetus.

defatting of the skin which can lead to skin inflammation and may make the skin more

time can cause kidney cancer, but the relevance in humans is questionable.

re search. inhalation of the gas

epeated exposure and may produce on contact skin redness, swelling, the production of

Carcinogenicity	×
Reproductivity	×
STOT - Single Exposure	×
STOT - Repeated Exposure	×
Aspiration Hazard	×
Legend: X – Data either not available or does not fill the criteria for classification - Data available to make classification	

Chemwatch: 18-3984	
Version No: 18.1.1.1	

Page 12 of 12 Dy-Mark Spray & Mark Std All Colours

Issue Date: 30/05/2020 Print Date: 01/06/2020 Chemwatch: 5434-45 Version No: 3.1.1.1

Page 12 of 14

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	Yes
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	Yes
Vietnam - NCI	Yes
Russia - ARIPS	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

SECTION 16 OTHER INFORMATION

Revision Date	30/05/2020
Initial Date	27/11/2008

SDS Version Summary

Version	Issue Date	Sections Updated
17.1.1.1	13/03/2020	Classification, Synonyms
18.1.1.1	30/05/2020	Classification, Supplier Information, Synonyms

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright.

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	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	Fish 18mg/L	
	EC50	48	Crustacea	=32mg/L	
n-butyl acetate	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants 246mg/L	
	EC90	72	Algae or other aquatic plants	1-540.7mg/L	2
	NOEC	504	Crustacea	23.2mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	100mg/L	1
opylene glycol monomethyl ether acetate, alpha-isomer	EC50	48	Crustacea	373mg/L	2
	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants >1-mg/L	
	NOEC	96	Algae or other aquatic plants	>=1-mg/L	2
naphtha petroleum, light aromatic solvent	Endpoint	Test Duration (hr)	Species	Species Value	
	LC50	96	Fish	4.1mg/L	2
	EC50	48	Crustacea	Crustacea 3.2mg/L	
	EC50	72	Algae or other aquatic plants	Algae or other aquatic plants >1-mg/L	
	NOEL	72	Algae or other aquatic plants	0.1mg/L	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	24.11mg/L	2
hydrocarbon propellant	EC50	96	Algae or other aquatic plants	7.71mg/L	2
	LC50	96	Fish	24.11mg/L	2
	EC50	96	Algae or other aquatic plants	7.71mg/L	2

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)
n-butyl acetate	LOW	LOW
propylene glycol monomethyl ether acetate, alpha-isomer	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
acetone	LOW (BCF = 0.69)
n-butyl acetate	LOW (BCF = 14)
propylene glycol monomethyl ether acetate, alpha-isomer	LOW (LogKOW = 0.56)

Mobility in soil

Ingredient	Mobility			
acetone	HIGH (KOC = 1.981)			
n-butyl acetate	LOW (KOC = 20.86)			
propylene glycol monomethyl ether acetate, alpha-isomer	HIGH (KOC = 1.838)			

SECTION 13 Disposal considerations

Waste treatment methods

	DO NOT allow wash water from cleaning or process ed
	It may be necessary to collect all wash water for treatment
	In all cases disposal to sewer may be subject to local line
	Where in doubt contact the responsible authority.
Product / Packaging disposal	Consult State Land Waste Management Authority for consult
	Discharge contents of damaged aerosol cans at an ap
	 Allow small quantities to evaporate.
	DO NOT incinerate or puncture aerosol cans.

SECTION 14 Transport information

equipment to enter drains.

ment before disposal.

laws and regulations and these should be considered first.

disposal. pproved site.

Bury residues and emptied aerosol cans at an approved site.

Chemwatch: 5434-45 Version No: 3.1.1.1

Page 13 of 14

Dy-Mark Spray & Mark - All Colours (Post Nov 2020)

Labels Required



Land transport (ADG)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	Class 2.1 Subrisk Not Applicable		icable
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	Special provisions Limited quantity		63 190 277 327 344 381 1000ml

Air transport (ICAO-IATA / DGR)

UN number	1950				
UN proper shipping name	Aerosols, flammable				
Transport hazard class(es)	ICAO/IATA Class 2.1 ICAO / IATA Subrisk Not Applicable ERG Code 10L				
Packing group	Not Applicable				
Environmental hazard	Not Applicable				
Special precautions for user	Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack			

Sea transport (IMDG-Code / GGVSee)

UN number	1950		
UN proper shipping name	AEROSOLS		
Transport hazard class(es)	IMDG Class IMDG Subrisk	2.1 Not Applicable	
Packing group	Not Applicable		
Environmental hazard	Not Applicable		
Special precautions for user	EMS Number	F-D , S-U	
	Special provision	s 63 190 277 327 344 381 959	
	Limited Quantities	s 1000 ml	

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

SECTION 15 Regulatory information

Safety, health and environmental regulations / legislation specific for the substance or mixture

acetone is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC) Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 5

n-butyl acetate is found on the following regulatory lists

Chemwatch: 5434-45 Version No: 3.1.1.1

Page 14 of

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

propylene glycol monomethyl ether acetate, alpha-isomer is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

naphtha petroleum, light aromatic solvent is found on the following regulatory lists Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

hydrocarbon propellant is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

National Inventory Status

Australia - Non-Industrial Use propellant) Canada - DSL Yes Canada - NDSL No (acetone; n-butyl acetate; propylene glycol monomet propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes Philippines - PICCS Yes USA - TSCA Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Leaend: Yes = All CAS declared ingredients are on the inventory		
Australia - Non-Industrial Use No (acetone; n-butyl acetate; propylene glycol monomet propellant) Canada - DSL Yes Canada - NDSL No (acetone; n-butyl acetate; propylene glycol monomet propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes Philippines - PICCS Yes USA - TSCA Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Leaend: Yes All CAS declared ingredients are on the inventory	National Inventory	Status
Australia - Non-Industrial Use propellant) Canada - DSL Yes Canada - NDSL No (acetone; n-butyl acetate; propylene glycol monomet propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes Philippines - PICCS Yes USA - TSCA Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Leaend: Yes = All CAS declared ingredients are on the inventory	Australia - AIIC	Yes
Canada - NDSL No (acetone; n-butyl acetate; propylene glycol monomet propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes Philippines - PICCS Yes USA - TSCA Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Leaend: Yes = All CAS declared ingredients are on the inventory	Australia - Non-Industrial Use	No (acetone; n-butyl acetate; propylene glycol monomet propellant)
Canada - NDSL propellant) China - IECSC Yes Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes New Zealand - NZIOC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Legend: Yes = All CAS declared ingredients are on the inventory	Canada - DSL	Yes
Europe - EINEC / ELINCS / NLP Yes Japan - ENCS Yes Korea - KECI Yes New Zealand - NZIOC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Legend: Yes = All CAS declared ingredients are on the inventory	Canada - NDSL	No (acetone; n-butyl acetate; propylene glycol monomet propellant)
Japan - ENCS Yes Korea - KECI Yes New Zealand - NZIOC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Japan - ENCS Yes	China - IECSC	Yes
Korea - KECI Yes New Zealand - NZIOC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Jeaend: Yes = All CAS declared ingredients are on the inventory	Europe - EINEC / ELINCS / NLP	Yes
New Zealand - NZIoC Yes Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Jeaend: Yes = All CAS declared ingredients are on the inventory	Japan - ENCS	Yes
Philippines - PICCS Yes USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Jeaend: Yes = All CAS declared ingredients are on the inventory	Korea - KECI	Yes
USA - TSCA Yes Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Jegend: Yes = All CAS declared ingredients are on the inventory	New Zealand - NZIoC	Yes
Taiwan - TCSI Yes Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes Jegend: Yes = All CAS declared ingredients are on the inventory	Philippines - PICCS	Yes
Mexico - INSQ Yes Vietnam - NCI Yes Russia - ARIPS Yes I egend: Yes = All CAS declared ingredients are on the inventory	USA - TSCA	Yes
Vietnam - NCI Yes Russia - ARIPS Yes Legend: Yes = All CAS declared ingredients are on the inventory	Taiwan - TCSI	Yes
Russia - ARIPS Yes Legend: Yes = All CAS declared ingredients are on the inventory	Mexico - INSQ	Yes
Legend: Yes = All CAS declared ingredients are on the inventory	Vietnam - NCI	Yes
Ledend:	Russia - ARIPS	Yes
	Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not of

SECTION 16 Other information

Revision Date	18/11/2020
Initial Date	17/11/2020

SDS Version Summary

Version	Issue Date	Sections Update
3.1.1.1	18/11/2020	Acute Health (swa

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average PC-STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit。 IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index This document is copyright.

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Chemical Footprint Project - Chemicals of High Concern List International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

Chemical Footprint Project - Chemicals of High Concern List

ethyl ether acetate, alpha-isomer; naphtha petroleum, light aromatic solvent; hydrocarbon

ethyl ether acetate, alpha-isomer; naphtha petroleum, light aromatic solvent; hydrocarbon

t on the inventory and are not exempt from listing(see specific ingredients in brackets)

be

allowed), Classification