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

1.1 Product identifier

Trade name : Carsystem Etch Primer

Product code : 143.028

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

Use of the Sub-

stance/Mixture

: Base coating, Paints

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH

Esinger Steinweg 50 25436 Uetersen

Germany

info@vosschemie.de

Telephone : 04122 717 0 Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0

sds@vosschemie.de

1.4 Emergency telephone number

Telephone : Giftinformationszentrum (GIZ)-Nord,

Göttingen, Deutschland

0551 19240

Distributor in New Zealand:

RA Johnstone & Co Ltd

33 Ha Crescent, Wiri, Auckland 2104 New

Zealand

Phone: +64 9 25000 91
Fax: +64 9 25000 92
Email: sales@raj.co.nz
Web: www.raj.co.nz

24hr Emergency Assistance in New Zealand

National Poison Control Centre: 0800 POISON [764 766]

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.H229: Pressur-

ised container: May burst if heated.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Specific target organ toxicity - single ex-

posure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

Long-term (chronic) aquatic hazard, Cat-

egory 3

H412: Harmful to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin dryness or

cracking.

Precautionary statements

P101

If medical advice is needed, have product container or

label at hand.

P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe spray.

Storage:

P410 + P412 Protect from sunlight. Do not expose to tem-

peratures exceeding 50 °C/ 122 °F.

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Disposal:

P501 Dispose of contents/container to an approved facility in

accordance with local, regional, national and interna-

tional regulations.

Hazardous components which must be listed on the label:

n-butyl acetate

propan-1-ol

butan-1-ol

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700-1000)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : aerosol

Mixture

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336	>= 25 - <= 50
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 20 - <= 25
propan-1-ol	71-23-8 200-746-9 603-003-00-0 01-2119486761-29	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	>= 2.5 - <= 5
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 2.5 - <= 5
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700-1000)	25068-38-6 500-033-5 603-074-00-8 01-2119456619-26	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 2.5 - <= 5

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2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1 01-2119484609-23	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 STOT SE 3; H335	>= 1 - <= 2.5
Substances with a workplace expo	sure limit :		
dimethyl ether	115-10-6	Flam. Gas 1; H220	>= 5 - <= 10
	204-065-8	Press. Gas Compr.	
	603-019-00-8	Gas; H280	
	01-2119472128-37		
2-methoxy-1-methylethyl acetate	108-65-6	Flam. Liq. 3; H226	>= 2.5 - <= 5
	203-603-9	STOT SE 3; H336	
	607-195-00-7		
	01-2119475791-29		
1-methoxy-2-propanol	107-98-2	Flam. Liq. 3; H226	>= 1 - <= 2.5
	203-539-1	STOT SE 3; H336	
	603-064-00-3		
	01-2119457435-35		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : First aider needs to protect himself.

Remove from exposure, lie down.

If unconscious, place in recovery position and seek medical

advice.

Take off contaminated clothing and shoes immediately.

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with soap and plenty of water.

If symptoms persist, call a physician.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

If easy to do, remove contact lens, if worn.

Protect unharmed eye. Call a physician immediately.

If swallowed : Swallowing is not regarded as a possible method for expo-

sure.

Immediately give large quantities of water to drink.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.

Causes serious eye damage.

May cause drowsiness or dizziness.

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Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2)

Dry powder Water spray jet

Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Vapours may form explosive mixtures with air.

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

Hazardous combustion prod- :

ucts

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Use personal protective equipment. Wear suitable respiratory

protection equipment.

Further information : Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations. Use water spray to cool unopened containers.

In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.

Evacuate personnel to safe areas. Remove all sources of ignition. Ensure adequate ventilation. Avoid inhalation of vapour or mist.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.

If the product contaminates rivers and lakes or drains inform

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respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Ventilate the area.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Local/Total ventilation : Ensure adequate ventilation.

Advice on safe handling : Pressurized container: Protect from sunlight and do not ex-

pose to temperatures exceeding 50°C / 122 °F. Also after use,

do not open with force or burn.

Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against

fire and explosion

Do not spray on a naked flame or any incandescent material.

Keep away from open flames, hot surfaces and sources of

ignition.

Keep away from direct sunlight.

Take measures to prevent the build up of electrostatic charge.

Hygiene measures : Do not inhale aerosol.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Please observe the storage instructions for aerosols!

Keep containers tightly closed in a cool, well-ventilated place. Solvent vapours are heavier than air and may spread along

floors.

Keep away from direct sunlight.

Keep away from heat and sources of ignition.

Further information on stor-

age conditions

Storage must be in accordance with the BetrSichV (Germany).

Advice on common storage : Keep away from food and drink.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40
		STEL	200 ppm 966 mg/m3	GB EH40
acetone	67-64-1	TWA	500 ppm 1,210 mg/m3	2000/39/EC
Further information	Indicative	•	, ,	1
		TWA	500 ppm 1,210 mg/m3	GB EH40
		STEL	1,500 ppm 3,620 mg/m3	GB EH40
dimethyl ether	115-10-6	TWA	1,000 ppm 1,920 mg/m3	2000/39/EC
Further information	Indicative	•	, ,	1
		TWA	400 ppm 766 mg/m3	GB EH40
		STEL	500 ppm 958 mg/m3	GB EH40
butane (< 0,1% 1,3-butadiene (203-450-8))	106-97-8	STEL	750 ppm 1,810 mg/m3	GB EH40
Further information	Capable of causing cancer and/or heritable genetic damage., Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
	, , ,	TWA	600 ppm 1,450 mg/m3	GB EH40
Further information	Capable of causing cancer and/or heritable genetic damage., Carcinogenic only applies if butane contains more than 0.1% of buta-1,3-diene			
2-methoxy-1- methylethyl ace- tate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 275 mg/m3	2000/39/EC
Further information	Identifies the	possibility of significa	ant uptake through the skin,	Indicative
		TWA	50 ppm 274 mg/m3	GB EH40
Further information			i. The assigned substances a	
		STEL	100 ppm 548 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
propan-1-ol	71-23-8	STEL	250 ppm 625 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	200 ppm 500 mg/m3	GB EH40
Further information			i. The assigned substances a	

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butan-1-ol	71-36-3	STEL	50 ppm 154 mg/m3	GB EH40
Further information	Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
2-methylpropan-1-	78-83-1	TWA	50 ppm	GB EH40
ol			154 mg/m3	00 20
		STEL	75 ppm 231 mg/m3	GB EH40
1-methoxy-2- propanol	107-98-2	TWA	100 ppm	2000/39/EC
Further information	375 mg/m3 Identifies the possibility of significant uptake through the skin, Indicative			
T dittici illioillation	STEL 150 ppm 2000/39/EC			
		SILL	568 mg/m3	2000/39/20
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	100 ppm	GB EH40
			375 mg/m3	
Further information	Can be absorbed through the skin. The assigned substances are those for			
	which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	150 ppm	GB EH40
			560 mg/m3	
Further information	Can be absorbed through the skin. The assigned substances are those for			
	which there are concerns that dermal absorption will lead to systemic toxicity.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m3
	Workers	Inhalation	Long-term local ef- fects	2420 mg/m3
	Workers	Skin contact	Long-term systemic effects	186 mg/kg
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg
	Consumers	Inhalation	Long-term systemic effects, Long-term	33 mg/m3

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		1	local effects	
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg
	Consumers	Oral	Long-term systemic effects	36 mg/kg
propan-1-ol	Workers	Inhalation	Long-term systemic effects	268 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	1723 mg/m3
	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Consumers	Inhalation	Long-term systemic effects	80 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	1036 mg/m3
	Consumers	Skin contact	Long-term systemic effects	81 mg/kg
	Consumers	Oral	Long-term systemic effects	61 mg/kg
reaction product: bi- sphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700-1000)	Workers	Inhalation	Long-term systemic effects	12.25 mg/m3
,	Workers	Skin contact	Long-term systemic effects	8.33 mg/m3
2-methylpropan-1-ol	Consumers	Oral	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	55 mg/m3
	Workers	Inhalation	Long-term local ef- fects	310 mg/m3
1-methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
	Workers	Inhalation	Acute systemic effects, Acute local effects	553.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	183 mg/kg
	Consumers	Inhalation	Long-term systemic effects	43.9 mg/m3
	Consumers	Skin contact	Long-term systemic effects	78 mg/kg
	Consumers	Oral	Long-term systemic effects	33 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Fresh water sediment	0.981 mg/kg dry
		weight (d.w.)

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	Marine sediment	0.098 mg/kg dry weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry
		weight (d.w.)
acetone	Fresh water	10.6 mg/l
	Marine water	1.06 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30.4 mg/kg
	Marine sediment	3.04 mg/kg
	Soil	29.5 mg/kg
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
ey :ey.ey. acetate	Marine water	0.064 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3.29 mg/kg
	Marine sediment	0.329 mg/kg
	Soil	0.29 mg/kg
propan-1-ol	Fresh water	10 mg/l
propari i oi	Marine water	1 mg/l
	Sewage treatment plant	96 mg/l
	Fresh water sediment	22.8 mg/kg
	Marine sediment	2.28 mg/kg
	Soil	2.2 mg/kg
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700-1000)	Fresh water	0.006 mg/l
	Marine water	0.0006 mg/l
	Fresh water sediment	0.0627 mg/kg
	Marine sediment	0.00627 mg/kg
	Sewage treatment plant	10 mg/l
	Soil	0.0478 mg/kg
2-methylpropan-1-ol	Fresh water	0.4 mg/l
	Marine water	0.04 mg/l
	Fresh water sediment	1.52 mg/l
	Marine sediment	0.152 mg/l
	Sewage treatment plant	10 mg/l
	Soil	0.0699 mg/kg
1-methoxy-2-propanol	Fresh water	10 mg/l
	Marine water	1 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	52.3 mg/kg
	Marine sediment	5.2 mg/kg
	Soil	4.59 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166

Hand protection

Material : butyl-rubber

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Break through time : > 480 min

Glove thickness : >= 0.4 mm

Directive : DIN EN 374

Protective index : Class 6

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different

from one producer to the other.

The exact break through time can be obtained from the pro-

tective glove producer and this has to be observed.

Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton

or heat-resistant synthetic fibres.

Long sleeved clothing

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Filter type : Filter type A-P

Protective measures : Use only with adequate ventilation.

When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist.

Environmental exposure controls

Soil : Avoid subsoil penetration.

Water : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : aerosol

Colour : grey

Odour : solvent-like

pH : not determined

Melting point/freezing point : not determined

Initial boiling point and boiling

: Not applicable

range

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Flash point : < 0 °C

Upper explosion limit / Upper

flammability limit

13 %(V)

Lower explosion limit / Lower :

flammability limit

1.2 %(V)

Vapour pressure : 4,000 hPa (20 °C)

Density : 0.794 g/cm3 (20 °C)

Solubility(ies)

Water solubility : immiscible

Partition coefficient: n-

octanol/water

not determined

Ignition temperature : 240 °C

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Explosive properties : Not explosive

In use, may form flammable/explosive vapour-air mixture.

9.2 Other information

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : No data available

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10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

Components:

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10,760 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

acetone:

Acute oral toxicity : LD50 Oral (Rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 132 mg/l

Exposure time: 3 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 Dermal (Rabbit): > 7,426 mg/kg

propan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): ca. 8,000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 33.8 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 4,032 mg/kg

Method: OECD Test Guideline 402

butan-1-ol:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Method: Converted acute toxicity point estimate

(*) Converted acute toxicity point estimate according to Table

3.1.2 of Annex I.

according to Regulation (EC) No. 1907/2006



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Acute dermal toxicity : (Rabbit): 3,430 mg/kg

Method: OECD Test Guideline 402

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight 700-1000):

Acute oral toxicity : LD50 Oral (Rat): 15,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 23,000 mg/kg

2-methylpropan-1-ol:

Acute oral toxicity : LD50 Oral (Rat): 2,460 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3,400 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 1883 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg

Method: OECD Test Guideline 402

1-methoxy-2-propanol:

Acute oral toxicity : LD50 Oral (Rat): 4,016 mg/kg

Acute inhalation toxicity : LC0 (Rat): > 7000 ppm

Test atmosphere: vapour

Method: OECD Test Guideline 403

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 Dermal (Rat): > 2,000 mg/kg

Method: Regulation (EC) No. 440/2008, Annex, B.3

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

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Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

2-methoxy-1-methylethyl acetate:

Exposure routes : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

1-methoxy-2-propanol:

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight 700-1000):

NOAEL : 50 mg/kg Application Route : Oral

NOAEL : 100 mg/kg Application Route : Skin contact

Aspiration toxicity

Not classified based on available information.

Components:

1-methoxy-2-propanol:

No aspiration toxicity classification

according to Regulation (EC) No. 1907/2006



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SECTION 12: Ecological information

12.1 Toxicity

Components:

acetone:

LC50 (Pimephales promelas (fathead minnow)): 8,120 mg/l Toxicity to fish

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia pulex (Water flea)): 8,800 mg/l

End point: mortality Exposure time: 48 h

NOEC (Microcystis aeruginosa (blue-green algae)): 430 mg/l Toxicity to algae

Exposure time: 96 h

Toxicity to microorganisms EC10 (Bacteria): 1,000 mg/l

Exposure time: 0.5 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 2,212 mg/l Exposure time: 28 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

propan-1-ol:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 4,555 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3,644 mg/l

End point: Immobilization Exposure time: 48 h Method: DIN 38412

EC50 (Pseudokirchneriella subcapitata (green algae)): 9,170 Toxicity to algae

mg/l

End point: Growth rate Exposure time: 48 h

Toxicity to microorganisms IC50 (Bacteria): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: > 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

according to Regulation (EC) No. 1907/2006



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reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular

weight 700-1000):

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 1.8 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (algae): 11 mg/l

Exposure time: 72 h

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 100 - 180 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

End point: Immobilization Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

End point: Growth rate Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC: 47.5 mg/l

Exposure time: 14 d

Species: Oryzias latipes (Orange-red killifish)

Method: OECD Test Guideline 204

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: >= 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

1-methoxy-2-propanol:

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): >= 1,000 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 21,100 - 25,900 mg/l

End point: Immobilization Exposure time: 48 h

Toxicity to microorganisms : IC50 (Bacteria): > 1,000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

according to Regulation (EC) No. 1907/2006



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Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

acetone:

Biodegradability : Biodegradation: 90.9 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

propan-1-ol:

Biodegradability : Biodegradation: 83 - 92 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

2-methoxy-1-methylethyl acetate:

Biodegradability : Biodegradation: 90 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

1-methoxy-2-propanol:

Biodegradability : Biodegradation: 96 %

Exposure time: 28 d

Method: OECD Test Guideline 301E

12.3 Bioaccumulative potential

Components:

acetone:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-

octanol/water

log Pow: -0.24 (20 °C)

propan-1-ol:

Bioaccumulation : Bioconcentration factor (BCF): 0.88

Partition coefficient: n-

octanol/water log Pow: 0.2 (25 °C)

pH: 7

butan-1-ol:

Partition coefficient: n-

octanol/water

log Pow: 1.0 (25 °C)

Pow: 1.6 (25 °C)

2-methoxy-1-methylethyl acetate:

according to Regulation (EC) No. 1907/2006



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Partition coefficient: n- : log Pow: 1.2 (20 °C)

octanol/water pH: 6.8

1-methoxy-2-propanol:

Partition coefficient: n- : log Pow: < 1 (20 °C)

octanol/water pH: 6.8

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher...

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

: No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : According to the European Waste Catalogue, Waste Codes

are not product specific, but application specific.

Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:

08 01 11, waste paint and varnish containing organic solvents

or other hazardous substances

15 01 10, packaging containing residues of or contaminated

by hazardous substances

SECTION 14: Transport information

14.1 UN number

ADN : UN 1950
ADR : UN 1950
RID : UN 1950
IMDG : UN 1950

according to Regulation (EC) No. 1907/2006



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IATA : UN 1950

14.2 UN proper shipping name

ADN : AEROSOLS
ADR : AEROSOLS
RID : AEROSOLS
IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADN : 2
ADR : 2
RID : 2
IMDG : 2.1
IATA : 2.1

14.4 Packing group

ADN

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1

ADR

Packing group : Not assigned by regulation

Classification Code : 5F Labels : 2.1 Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation

Classification Code : 5F Hazard Identification Number : 23 Labels : 2.1

IMDG

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation
Labels : Division 2.1 - Flammable gases

IATA (Passenger)

Packing instruction (passen- : 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation

according to Regulation (EC) No. 1907/2006



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Division 2.1 - Flammable gases Labels

14.5 Environmental hazards

Environmentally hazardous no

ADR

Environmentally hazardous no

Environmentally hazardous no

IMDG

Marine pollutant no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mix-

REACH - Candidate List of Substances of Very High Not applicable

Concern for Authorisation (Article 59).

REACH - List of substances subject to authorisation Not applicable

(Annex XIV)

Regulation (EC) No 1005/2009 on substances that de-Not applicable

plete the ozone layer

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

preparations and articles (Annex XVII)

Not applicable

Not applicable

HSR002515 Aerosols (Flammable)

Toxicity

NEW ZEALAND:

(Flammable)

Class 2.1.2A Aerosols

Class 6.5B Skin Allergic Class 8.3A Eye corrosive

Class 9.1C Aquatic

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

FLAMMABLE AEROSOLS

Volatile organic compounds Directive 2004/42/EC

> Volatile organic compounds (VOC) content: < 840 g/l VOC content for the product in a ready to use condition.

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations,

according to Regulation (EC) No. 1907/2006



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where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

H220 : Extremely flammable gas.

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H280 : Contains gas under pressure; may explode if heated.

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317: May cause an allergic skin reaction.H318: Causes serious eye damage.H319: Causes serious eye irritation.H335: May cause respiratory irritation.H336: May cause drowsiness or dizziness.

H411 : Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first

list of indicative occupational exposure limit values

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2000/39/EC / TWA : Limit Value - eight hours 2000/39/EC / STEL : Short term exposure limit

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response;

according to Regulation (EC) No. 1907/2006



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EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory: TRGS - Technical Rule for Hazardous Substances: TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture: Classification procedure:

Aerosol 1	H222, H229	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.