Safety Data Sheet
According to HSNO Regulations

Cleaner Degreaser

SECTION 1: Identification

Product identifier

Product name: Cleaner Degreaser

Product code: 40101, 40104, 40105, 40116, 40155, 240101, 240104, 240105, 240116, 240155

Additional information: No additional information available.

Recommended use of the product and restriction on use:

Relevant identified uses: Cleaner Degreaser

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Supplier:

RA Johnstone & Co. trading as
RJP Performance
33 Ha Crescent, Wiri,
Auckland 2104
+64 9 25000 91 / sales@raj.co.nz

Emergency telephone number:

ChemTel Inc.
+1 813 248 0585

Poisons Information Center, New Zealand
0800 764 766

SECTION 2: Hazards identification

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017

HSNO Classification or Subclasses – Physical hazards:

Class	GHS Category	HSNO Category
Corrosive to metals	Category 1	8.1A

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Skin corrosion	Category 1A	8.2A
Carcinogenicity	Category 2	6.7B
Specific target organ toxicity - single exposure	Category 2	6.9B

HSNO Classification or Subclasses – Environmental hazards:

Class	GHS Category	HSNO Category
None known	None known	None known

GHS classification:

Corrosive to metals, category 1
Skin corrosion, category 1A
Carcinogenicity, category 2
Specific target organ toxicity - single exposure, category 2

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements and Precautionary statements:

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H351 Suspected of causing cancer.
H371 May cause damage to organs (respiratory system) if inhaled as a mist.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P234 Keep only in original container.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands and skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see first aid instructions on this label).
P363 Wash contaminated clothing before reuse
P390 Absorb spillage to prevent material damage
P405 Store locked up.
P406 Store in a corrosive resistant container with a resistant inner liner.
P501 Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Hazards not otherwise classified:

None known.

SECTION 3: Composition/information on ingredients

Mixture:

Identification	Name	Weight %
CAS number: 1310-58-3	Potassium hydroxide	2-5
CAS number: 111-76-2	2-Butoxyethanol	1-3
CAS number: 68439-45-2	Alcohols, C6-12, ethoxylated, liquids	1-3

Additional information:

None known

SECTION 4: First-aid measures

For advice, contact a Poisons Information Center (e.g. phone Australia 131 126, New Zealand 0800 764 766) or a doctor.

Description of first aid measures

General notes:

Not determined or not available.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell
Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air and keep comfortable for breathing Immediately call a POISON CONTROL CENTER or seek medical attention
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:

Rinse affected area with soap and water.
If symptoms develop or persist, seek medical attention.
Avoid direct contact and wear chemical protective clothing, if necessary
Immediately take off all contaminated clothing
Gently blot or brush away excess product
Rinse skin with lukewarm, gently flowing water until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention
Wash contaminated clothing before re-use or discard

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective gloves, if necessary
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists
Immediately call a POISON CONTROL CENTER or seek medical attention
Do not induce vomiting and rinse mouth
If vomiting occurs naturally, lie on your side, in the recovery position
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

Most important symptoms and effects, both acute and delayed:

Acute symptoms and effects:

Exposure to skin may result in redness, pain, burning, inflammation and tissue damage. Exposure to eyes may result in irritation, redness, pain, inflammation, itching, burning and tearing. Exposure via inhalation may result in cough, sore throat, burning sensation and shortness of breath. Exposure via ingestion may result in burns of the mouth and throat, abdominal pain, burning sensation in the throat and chest, nausea, vomiting, shock or collapse.

Delayed symptoms and effects:

Exposure may cause cancer. Effects are dependent on exposure (dose, concentration, contact time).

Immediate medical attention and special treatment:
Specific treatment:
Not determined or not available.
Notes for the doctor:
Treat symptomatically.
Workplace Facilities:
Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media
Suitable extinguishing media:
Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.
Unsuitable extinguishing media:
Not determined or not applicable.

Specific hazards during fire-fighting:
Thermal decomposition can lead to release of irritating gases and vapors.
May form corrosive mixtures with water.

Special protective equipment for firefighters:
Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:
Not determined or not applicable.

Hazchem or Emergency Action Code:
HAZCHEM Code: 2R

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation.
Ensure air handling systems are operational.
Wear protective eye wear, gloves and clothing.
Environmental precautions:
Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.
Methods and material for containment and cleaning up:
Wear protective eye wear, gloves and clothing.
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders).
Dispose of contents / container in accordance with local regulations.
Reference to other sections:
Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

SECTION 7: Handling and storage precautions

Precautions for safe handling:
Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store in corrosive resistant container with a resistant inner lining.

Safe packaging material

Suitable material:

Not determined or not applicable.

Unsuitable material:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	2-Butoxyethanol	111-76-2	TWA: 25 ppm (121 mg/m³)
	Potassium hydroxide	1310-58-3	Ceiling Limit: 2 mg/m³

Biological limit value:

No biological exposure limits noted for the ingredient(s)

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls
Biological monitoring may also be appropriate for some substances

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.
Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.
Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.
Wash hands before breaks and at the end of work.
Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Appearance	Clear Colorless Liquid
Odor	Very Mild
Odor threshold	Not determined or not available.
pH	9.5 - 13.1
Melting point/freezing point	Melting: Approximately 0°C (32°F); Freezing: Approximately 100°C (212°F)
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	No Flash Point
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	23 hPa @ 20°C
Vapor density	Not determined or not available.
Density	1.03 g/mL
Relative density	Not determined or not available.
Solubilities	Miscible in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	1 mm2/s @ 20°C
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

Recommended Storage Temperature	40°F - 90°F
Recommended Shelf Life	Unopened, 3 Years
VOC Content	20.9 g/L; 2.04% w/w

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

None known.

Incompatible materials:

Strong acids (e.g. hydrochloric acid), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid).

Corrosive to: aluminum alloys, copper alloys (e.g. brass and/or bronze), zinc.

Hazardous decomposition products:

Corrosive chemicals; irritating chemicals; toxic chemicals.

SECTION 11: Toxicological information

Acute toxicity:
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Route	Result
Potassium hydroxide	oral	LD50 - Rat - 333 mg/kg
Alcohols, C6-12, ethoxylated, liquids	oral	LD50 > 300 to <= 2,000 mg/kg
2-Butoxyethanol	oral	LD50 - Rat - 470 mg/kg
	dermal	LD50 - Rabbit - 220 mg/kg
	inhalation	LC50 - Rat - 450 ppm - 4H

Skin corrosion/irritation:
Assessment: Causes severe skin burns and eye damage
Product data: No data available.
Substance data:

Name	Result
Potassium hydroxide	Corrosive to the skin.
2-Butoxyethanol	Irritating to the skin.

Serious eye damage/irritation:
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
Alcohols, C6-12, ethoxylated, liquids	Corrosive effect on the eyes.
2-Butoxyethanol	Irritating effect on the eyes.

Respiratory or skin sensitization:
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Carcinogenicity
Assessment: Suspected of causing cancer
Product data: No data available.
Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Reproductive toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (single exposure)
Assessment: May cause damage to organs
Product data: No data available.
Substance data: No data available.

Specific target organ toxicity (repeated exposure)
Assessment: May cause damage to organs through prolonged or repeated exposure
Product data: No data available.
Substance data: No data available.

Aspiration toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Information on likely routes of exposure:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Chronic (long-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data: No data available.

Persistence and degradability
Product data: No data available.
Substance data: No data available.

Bioaccumulative potential
Product data: No data available.
Substance data: No data available.

Mobility in soil
Product data: No data available.
Substance data: No data available.

Hazard to the ozone layer
Product data: No data available.
Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:
It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transportation information

Road/Rail transport: (NZS 5433:1999)

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Maritime Dangerous Goods (IMDG)

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	8L
Excepted quantities	E1
Passenger and cargo	5L
Cargo aircraft only	60L
Limited quantity	1L
Additional Information	No additional data

International Air Transport Association Dangerous Goods Regulations (IATA-ICAO)

UN number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL and the IBC Code	
Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

New Zealand Inventory of Chemicals (NZIoC):

111-76-2	2-Butoxyethanol	Listed
1310-58-3	Potassium hydroxide	Listed
68439-45-2	Alcohols, C6-12, ethoxylated, liquids	Listed

HSNO Classification or Subclasses:

Class	GHS Category	HSNO Category
Corrosive to metals	Category 1	8.1A
Skin corrosion	Category 1A	8.2A
Carcinogenicity	Category 2	6.7B
Specific target organ toxicity - single exposure	Category 2	6.9B

HSNO Group Standard Name :	HSNO Approval Number:
Industrial and Institutional Cleaning Products (Corrosive, Toxic [6.7])	HSR002588

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

Initial preparation date: 03.23.2018

Revision Date: New

End of Safety Data Sheet

Metal Prep

SECTION 1: Identification

Product identifier

Product name: Metal Prep
Product code: 40201, 40204, 40205, 40216, 40255, 240201, 240204, 240205, 240216, 240255

Recommended use of the product and restriction on use

Relevant identified uses: Metal Cleaner
Uses advised against: Not determined or not applicable.
Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:
United States
P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Distributor in New Zealand:
RA Johnstone & Co Ltd trading as
RJP Performance
33 Ha Crescent, Wiri
Auckland 2104
+64 9 25000 91
sales@raj.co.nz

Emergency telephone number:

United States
ChemTel Inc.
+1 800 255 3924
+1 813 248 0585

SECTION 2: Hazard(s) identification

GHS classification:

Skin corrosion, category 1A
Carcinogenicity, category 1A
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
H350 May cause cancer if inhaled as a mist.
H335 May cause respiratory irritation.
H373 May cause damage to organs (lungs, respiratory system) through prolonged or repeated exposure if inhaled as a mist.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands and skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P281 Use personal protective equipment as required.
P271 Use only outdoors or in a well-ventilated area.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see first aid information on this label).
P363 Wash contaminated clothing before reuse
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Hazards not otherwise classified: None

SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 7779-90-0	Zinc phosphate	2-5
CAS number: 7664-38-2	Phosphoric acid solutions	10-12

Additional Information: None

SECTION 4: First aid measures

Description of first aid measures

General notes:

Not determined or not applicable.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position
Maintain an unobstructed airway
Get medical advice/attention if you feel unwell
Take precautions to ensure your own safety
Remove source of exposure or move person to fresh air and keep comfortable for breathing
Immediately call a POISON CONTROL CENTER or seek medical attention
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

After skin contact:

Rinse affected area with soap and water
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective clothing, if necessary
Immediately take off all contaminated clothing
Gently blot or brush away excess product
Rinse skin with lukewarm, gently flowing water until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

Wash contaminated clothing before re-use or discard

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes
If symptoms develop or persist, seek medical attention
Avoid direct contact and wear chemical protective gloves, if necessary
Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open
Remove contact lenses, if present and easy to do so
Continue rinsing until medical aid is available
Immediately call a POISON CONTROL CENTER or seek medical attention

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists
Immediately call a POISON CONTROL CENTER or seek medical attention
Do not induce vomiting and rinse mouth
If vomiting occurs naturally, lie on your side, in the recovery position
If breathing has stopped, trained personnel should begin rescue breathing
Avoid mouth-to-mouth contact by using a barrier device
If the heart has stopped, immediately start cardiopulmonary resuscitation (CPR)

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

Not determined or not applicable.

Delayed symptoms and effects:

Not determined or not applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Treat symptomatically

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition

Unsuitable extinguishing media:

Not determined or not applicable.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

Special precautions:

Not determined or not applicable.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation
Ensure air handling systems are operational

Wear protective eye wear, gloves and clothing

Environmental precautions:

Should not be released into the environment

Prevent from reaching drains, sewer or waterway

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing

Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders)

Dispose of contents / container in accordance with local regulations

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

Precautions for safe handling:

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.

Protect from freezing and physical damage.

Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Phosphoric acid solutions	7664-38-2	OSHA PEL TWA 1.0 mg/m³
ACGIH	Phosphoric acid solutions	7664-38-2	ACGIH TLV TWA: 1.0 mg/m³
	Phosphoric acid solutions	7664-38-2	ACGIH TLV STEL: 3.0 mg/m³
NIOSH	Phosphoric acid solutions	7664-38-2	NIOSH REL TWA 1.0 mg/m³
	Phosphoric acid solutions	7664-38-2	NIOSH REL ST 3.0 mg/m³
Australia	Phosphoric acid solutions	7664-38-2	TWA: 1 mg/m³ ; STEL: 3 mg/m³

Biological limit values:

No biological exposure limits noted for the ingredient(s).

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Clear Blue Liquid
Odor	Odorless
Odor threshold	Not determined or not available.
pH	2.5
Melting point/freezing point	Melting: Approximately 0°C (32°F); Freezing: Approximately 100°C (212°F)
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	No Flash Point
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	23.7 mm Hg @ 25°C
Vapor density	Not determined or not available.
Density	1.07 g/mL
Relative density	Not determined or not available.
Solubilities	Miscible in water.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	Not determined or not available.
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

VOC Content	0.0767 gr/L / 0.0071% w/w
Recommended Storage Temperature	40°F - 90°F
Recommended Shelf Life	Unopened, 3 Years

SECTION 10: Stability and reactivity

Reactivity:
Does not react under normal conditions of use and storage.

Chemical stability:
Stable under normal conditions of use and storage.

Possibility of hazardous reactions:
None under normal conditions of use and storage.

Conditions to avoid:
Prolonged exposure to high temperatures.
Alkaline conditions (high pH).

Incompatible materials:
Reacts violently with: strong bases (e.g. sodium hydroxide).
Slightly reactive or incompatible with the following materials: aromatic hydrocarbons (e.g. toluene).
Forms flammable chemicals on contact with: metals (e.g. aluminum), strong bases (e.g. sodium hydroxide), strong oxidizing agents (e.g. perchloric acid), strong reducing agents (e.g. hydrides).

Hazardous decomposition products:
Irritating chemicals; toxic chemicals; corrosive phosphorous oxides.

SECTION 11: Toxicological information

Acute toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Skin corrosion/irritation

Assessment: Causes severe skin burns and eye damage

Product data:

No data available.

Substance data:

Name	Result
Phosphoric acid solutions	Corrosive to skin.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

Product data:

No data available.

Substance data: No data available.

Respiratory or skin sensitization

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.

Substance data: No data available.

Carcinogenicity

Assessment: May cause cancer

Product data: No data available.

Substance data: No data available.

International Agency for Research on Cancer (IARC): None of the ingredients are listed.

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data:
No data available.
Substance data: No data available.

Reproductive toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data:
No data available.
Substance data: No data available.

Specific target organ toxicity (single exposure)
Assessment: May cause respiratory irritation
Product data:
No data available.
Substance data: No data available.

Specific target organ toxicity (repeated exposure)
Assessment: May cause damage to organs through prolonged or repeated exposure
Product data:
No data available.
Substance data: No data available.

Aspiration toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data:
No data available.
Substance data: No data available.

Information on likely routes of exposure:
No data available.

Symptoms related to the physical, chemical and toxicological characteristics:
No data available.

Other information:
No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity
Assessment: Based on available data, the classification criteria are not met.
Product data: No data available.
Substance data:

Name	Result
Zinc phosphate	LC50 - Thymallus arcticus - 0.112 mg/L - 96 h
	NOEC - Daphnia magna - 0.048 mg/L - 3 w

Chronic (long-term) toxicity
Product data: No data available.
Substance data: No data available.

Persistence and degradability
Product data: No data available.
Substance data: No data available.

Bioaccumulative potential
Product data: No data available.
Substance data: No data available.

Mobility in soil

Metal Prep

Product data: No data available.
Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

United States Transportation of dangerous goods (49 CFR DOT)

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
Passenger air/rail	5L
Cargo aircraft only	60L
Stowage category	A

International Maritime Dangerous Goods (IMDG)

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions)
UN transport hazard class(es)	8 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EmS number	F-A, S-B
Stowage category	A
Excepted quantities	E1
Limited quantity	5L

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid solutions)
UN transport hazard class(es)	8 

Metal Prep

Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	8L
Excepted quantities	E1
Passenger and cargo	5L
Cargo aircraft only	60L
Limited quantity	1L

NEW ZEALAND:
Class 8.2A Skin Corrosive
Class 6.7A May cause cancer by Inhalation
Class 6.1E Respiratory Hazard
Class 6.9B Target Organ – Repeat

HSR002660 Surface Coatings and Colourants (Corrosive, Carcinogenic)

SECTION 15: Regulatory information

United States regulations

Inventory listing (TSCA):

7779-90-0	Zinc phosphate	Listed
7664-38-2	Phosphoric acid solutions	Listed

Significant New Use Rule (TSCA Section 5): Not determined.

Export notification under TSCA Section 12(b): Not determined.

SARA Section 302 extremely hazardous substances: Not determined.

SARA Section 313 toxic chemicals: Not determined.

CERCLA:

7664-38-2	Phosphoric acid solutions	Listed	5,000 lb

RCRA: Not determined.

Section 112(r) of the Clean Air Act (CAA): Not determined.

Massachusetts Right to Know:

7664-38-2	Phosphoric acid solutions	Listed

New Jersey Right to Know:

7664-38-2	Phosphoric acid solutions	Listed

New York Right to Know:

7664-38-2	Phosphoric acid solutions	Listed

Pennsylvania Right to Know:

7664-38-2	Phosphoric acid solutions	Listed

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 3-0-0

HMIS: 3-0-0

Initial preparation date: 03.23.2018

Additional information:

Version 1.1

End of Safety Data Sheet

POR-15 Rust Preventive Coating - Gloss

SECTION 1: Identification

Product identifier

Product name: POR-15 Rust Preventive Coating - Gloss Black

Product code: 45001; 45004; 45005; 45008; 45032; 45055; 245001; 245004; 245005; 245008; 245032; 245055

Additional information: No additional information available.

Recommended use of the product and restriction on use:

Relevant identified uses: Paints and coatings.

Uses advised against: Not determined or not applicable.

Reasons why uses advised against: Not determined or not applicable.

Manufacturer or supplier details

Manufacturer:

P.O.R. Products
38 Portman Road
New Rochelle, NY 10801
914-636-0700

Supplier:

RA Johnstone & Co Ltd trading as
RJP Performance
33 Ha Crescent, Wiri,
Auckland 2104
+64 9 25000 91 / sales@raj.co.nz

Emergency telephone number:

ChemTel Inc.

+1 813 248 0585

Poisons Information Center, New Zealand

0800 764 766

SECTION 2: Hazards identification

Classified as a Dangerous Good according to NZS 5433:2012 Transport of Dangerous Goods on Land.

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2017

HSNO Classification or Subclasses – Physical hazards:

Class	GHS Category	HSNO Category
Flammable liquids	Category 3	3.1C

HSNO Classification or Subclasses – Health hazards:

Class	GHS Category	HSNO Category
Eye irritation	Category 2A	6.4A
Skin irritation	Category 2	6.3A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.1E
Specific target organ toxicity - single exposure	Category 3, central nervous system	6.9B
Specific target organ toxicity - repeated exposure	Category 1	6.9A

Carcinogenicity	Category 2	6.7B

HSNO Classification or Subclasses – Environmental hazards:

Class	GHS Category	HSNO Category
Chronic aquatic hazard	Category 3	9.1C

GHS classification:

Flammable liquids, category 3
Eye irritation, category 2A
Skin irritation, category 2
Skin sensitization, category 1
Respiratory sensitization, category 1
Aspiration hazard, category 1
Acute toxicity (inhalation), category 4
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Specific target organ toxicity - single exposure, category 3, central nervous system
Specific target organ toxicity - repeated exposure, category 1
Carcinogenicity, category 2
Chronic aquatic hazard, category 3

Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements and Precautionary statements:

H226 Flammable liquid and vapor
H319 Causes serious eye irritation
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H304 May be fatal if swallowed and enters airways
H332 Harmful if inhaled
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H372 Causes damage to organs through prolonged or repeated exposure
H351 Suspected of causing cancer
H412 Harmful to aquatic life with long lasting effects
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
P233 Keep container tightly closed
P240 Ground/bond container and receiving equipment
P241 Use explosion-proof electrical/ventilating/light/equipment
P242 Use only non-sparking tools
P243 Take precautionary measures against static discharge
P280 Wear protective gloves/protective clothing/eye protection/face protection
P264 Wash skin thoroughly after handling

P272 Contaminated work clothing should not be allowed out of the workplace
P285 In case of inadequate ventilation wear respiratory protection
P271 Use only outdoors or in a well-ventilated area
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P270 Do not eat, drink or smoke when using this product
P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P273 Avoid release to the environment
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P284 Wear respiratory protection.
P281 Use personal protective equipment as required.
P303+P361+P353 If on skin (or hair): Immediately remove/take off all contaminated clothing. Rinse skin with water/shower
P370+P378 In case of fire: Use agents recommended in section 5 for extinction
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Take off contaminated clothing and wash before reuse
P302+P352 If on skin: Wash with soap and water
P333+P313 If skin irritation or a rash occurs: Get medical advice/attention
P331 Do not induce vomiting
P301+P310 If swallowed: Immediately call a poison center or doctor/physician
P304+P340+P312 If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell
P308+P313 If exposed or concerned: Get medical advice/attention
P337+P313 If eye irritation persists get medical advice/attention
P332+P313 If skin irritation occurs: Get medical advice/attention
P362+P364 Take off contaminated clothing and wash it before reuse.
P363 Wash contaminated clothing before reuse
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell
P405 Store locked up
P403+P233 Store in a well ventilated place. Keep container tightly closed
P403+P235 Store in a well ventilated place. Keep cool.
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified:

None known.

SECTION 3: Composition/information on ingredients

Mixture:

Identification	Name	Weight %
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	<6
CAS number: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	15-20

CAS number: 1333-86-4	Carbon Black	<3
CAS number: 1330-20-7	Xylene	<0.5
CAS number: 52747-01-0	Propanol, ((1-methyl-1,2- ethanediyl)bis(oxy))bis-, polymer with 1,1'-methylenebis(4- isocyanatobenzene)	8-18
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	15-20
CAS number: 9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	1-5
CAS number: 26447-40-5	Methylenediphenyl diisocyanate	2-7
CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	5-12
CAS number: 98-82-8	Cumene	<0.5
CAS number: 67815-87-6	Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2- methyloxirane and 1,2-propanediol	27-47

Additional information:

None known

SECTION 4: First-aid measures

For advice, contact a Poisons Information Center (e.g. phone Australia 131 126, New Zealand 0800 764 766) or a doctor.

Description of first aid measures

General notes:

Get medical attention if you feel unwell.

After inhalation:

Loosen clothing as necessary and position individual in a comfortable position Maintain an unobstructed airway

Get medical advice/attention if you feel unwell

Take precautions to ensure your own safety

Remove source of exposure or move person to fresh air

Get medical advice if you feel unwell or concerned

After skin contact:

Rinse affected area with soap and water.

If symptoms develop or persist, seek medical attention.

Take off all contaminated clothing.

Gently blot or brush away excess product.

Wash with plenty of lukewarm, gently flowing water.

Get medical advice if skin irritation occurs or you feel unwell.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes.

If symptoms develop or persist, seek medical attention.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open.
Remove contact lenses, if present and easy to do so.
Continue rinsing for 15-20 minutes.
Get medical advice if eye irritation persists.

After swallowing:

Rinse mouth thoroughly
Seek medical attention if irritation, discomfort, or vomiting persists

Most important symptoms and effects, both acute and delayed:

Acute symptoms and effects:

May cause breathing difficulty, asthma attack, nausea, allergic reaction

Delayed symptoms and effects:

Not determined or not available.

Immediate medical attention and special treatment:

Specific treatment:

Not determined or not available.

Notes for the doctor:

Contains isocyanates, consult literature for specific treatment.

Workplace Facilities:

Not determined or not available.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media:

Do not use a water stream as an extinguisher.

Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors.
Vapors can flow to distant ignition sources and flashback
Liquid is volatile and may generate an explosive atmosphere.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Shut off sources of ignition.
Carbon monoxide and carbon dioxide may form upon combustion.
Heating causes a rise in pressure, risk of bursting and combustion.

Hazchem or Emergency Action Code:

Not determined or not available.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.
Wear protective eye wear, gloves and clothing.
Beware of vapors accumulating to form explosive concentrations.
Vapors can accumulate in low areas.

Environmental precautions:

Should not be released into the environment.
Prevent from reaching drains, sewer or waterway.

Methods and material for containment and cleaning up:

Wear protective eye wear, gloves and clothing.
Use spark-proof tools and equipment.
Absorb with non-combustible liquid-binding material (sand, diatomaceus earth (clay), acid binders, universal binders).
Dispose of contents / container in accordance with local regulations.

Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage precautions

Precautions for safe handling:

Use only with adequate ventilation.
Avoid breathing mist or vapor.
Do not eat, drink, smoke or use personal products when handling chemical substances.
Take precautionary measures against electrostatic discharges.
Use only non-sparking tools.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed.
Protect from freezing and physical damage.
Store in a cool, well-ventilated area.
Store away from all ignition sources (open flames, hot surfaces, direct sunlight, spark sources).

Safe packaging material

Suitable material:

Not determined or not applicable.

Unsuitable material:

Not determined or not applicable.

SECTION 8: Exposure controls and personal protection

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
New Zealand	Carbon Black	1333-86-4	TWA: 3 mg/m³
	Xylene	1330-20-7	TWA: 217 mg/m³ (50 ppm);
	Cumene	98-82-8	TWA: 125 mg/m³ (25 ppm); STEL: 375 mg/m³ (75 ppm)

Biological limit value:

Substance	Identifier	Determinant	Sampling time	Permissible limits
Xylene	1330-20-7	Methylhippuric acid	End of shift.	1.5 g/L

Information on monitoring procedures:

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls

Biological monitoring may also be appropriate for some substances

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

Use explosion-proof ventilation equipment.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

General hygienic measures:

Avoid contact with skin, eyes and clothing.

Wash hands before breaks and at the end of work.

Wash contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Appearance	Gloss Black Colored Liquid
Odor	Not determined or not available.
Odor threshold	Not determined or not available.
pH	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	>284°F (>140°C)
Flash point (closed cup)	>106°F (>41°C)
Evaporation rate	Not determined or not available.
Flammability (solid, gas)	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	38 mmHg
Vapor density	Not determined or not available.

Density	1.04 g/mL
Relative density	Not determined or not available.
Solubilities	Not miscible.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
Dynamic viscosity	200-500 cPs
Kinematic viscosity	Not determined or not available.
Explosive properties	Not determined or not available.
Oxidizing properties	Not determined or not available.

Other information

VOC Content	295 g/L (US EPA Method 24A)
Recommended Storage Temperature	50°F - 95°F
Recommended Shelf Life	3 Years Un-Opened

SECTION 10: Stability and reactivity

Reactivity:

Does not react under normal conditions of use and storage.

Chemical stability:

Stable under normal conditions of use and storage.

Possibility of hazardous reactions:

None under normal conditions of use and storage.

Conditions to avoid:

Keep away from heat, sparks and flames.

Incompatible materials:

None known.

Hazardous decomposition products: None known.

SECTION 11: Toxicological information

Acute toxicity:

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Route	Result
Isocyanic acid, polymethylenepolyphenylene ester	inhalation	LC50 - Rat - 490 mg/m³/4h
Methylenediphenyl diisocyanate	inhalation	LC50 - Rat - 369 mg/cu m/4 h
4,4'-Methylenediphenyl diisocyanate	inhalation	LC50 - Rat - 369 mg/cu m/4 h
Xylene	dermal	LD50 - Rat - > 1,700 mg/kg
	inhalation	LC50 - Rat - 5,000 ppm/4 h
1, 2, 4-Trimethylbenzene	inhalation	LC50 - Rat - 18,000 mg/m³

Skin corrosion/irritation:

Assessment: Causes skin irritation

Product data: No data available.

Substance data:

Name	Result
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2- ethanediamine, 2-methyloxirane and 1,2- propanediol	Irritating to the skin.
Isocyanic acid, polymethylenepolyphenylene ester	Moderate skin irritation.
Methylenediphenyl diisocyanate	Irritating to the skin.
4,4'-Methylenediphenyl diisocyanate	Irritating to the skin.
Xylene	Irritating to the skin.
1, 2, 4-Trimethylbenzene	Irritating to the skin.
Naphtha (petroleum), hydrotreated heavy	Irritating to the skin.

Serious eye damage/irritation:

Assessment: Causes serious eye irritation

Product data: No data available.

Substance data:

Name	Result
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2- ethanediamine, 2-methyloxirane and 1,2- propanediol	Irritating effect on the eyes.
Isocyanic acid, polymethylenepolyphenylene ester	Irritating effect on the eyes.
Methylenediphenyl diisocyanate	Moderate eye irritation.
4,4'-Methylenediphenyl diisocyanate	Moderate eye irritation.
1, 2, 4-Trimethylbenzene	Irritating effect on the eyes.

Respiratory or skin sensitization:

Assessment: May cause an allergic skin reaction May cause allergy or asthma symptoms or breathing difficulties if inhaled

Product data: No data available.

Substance data:

Name	Result
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2- ethanediamine, 2-methyloxirane and 1,2- propanediol	Sensitization possible through skin and respiratory contact.
Isocyanic acid, polymethylenepolyphenylene ester	May cause sensitization by respiratory contact.
Methylenediphenyl diisocyanate	May cause sensitization by inhalation and skin contact.
4,4'-Methylenediphenyl diisocyanate	May cause sensitization by inhalation and skin contact.
Cumene	No skin irritation
	No eye irritation
Propanol, ((1-methyl-1,2- ethanediyl)bis(oxy))bis-, polymer with 1,1'- methylenebis(4- isocyanatobenzene)	Sensitization possible through respiratory contact.

Carcinogenicity

Assessment: Suspected of causing cancer

Product data: No data available.

Substance data:

Name	Species	Result
Methylenediphenyl diisocyanate	Methylenediphenyl diisocyanate	May cause cancer.
4,4'-Methylenediphenyl diisocyanate		May cause cancer.
Carbon Black	Carbon Black	The carcinogenic classification of Carbon Black only applies to airborne, unbound particles of respirable size.
Solvent naphtha (petroleum), light arom.	Solvent naphtha (petroleum), light arom.	Component may cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Isocyanic acid, polymethylenepolyphenylene ester	Group 3 - Not classifiable as to its carcinogenicity to humans
Carbon Black	Group 2B - Possibly carcinogenic to humans
Xylene	Group 3 - Not classifiable as to its carcinogenicity to humans
Cumene	Group 2B - Possibly carcinogenic to humans

National Toxicology Program (NTP): None of the ingredients are listed.

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May cause genetic defects.

Reproductive toxicity

Assessment: Based on available data, the classification criteria are not met

Product data: No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

Assessment: May cause respiratory irritation. May cause drowsiness or dizziness

Product data: No data available.

Substance data:

Name	Result
Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2- ethanediamine, 2-methyloxirane and 1,2- propanediol	May cause respiratory tract irritation through single or repeated exposure.
Isocyanic acid, polymethylenepolyphenylene ester	Component affects the respiratory system through single and repeated exposure.
Methylenediphenyl diisocyanate	Component affects the respiratory system through single and repeated exposure.
4,4'-Methylenediphenyl diisocyanate	Component affects the respiratory system through single and repeated exposure.
Cumene	Component affects the respiratory system.

1, 2, 4-Trimethylbenzene	Component affects the respiratory system.
Naphtha (petroleum), hydrotreated heavy	Component affects the central nervous system.

Specific target organ toxicity (repeated exposure)

Assessment: Causes damage to organs through prolonged or repeated exposure

Product data: No data available.

Substance data: No data available.

Aspiration toxicity

Assessment: May be fatal if swallowed and enters airways

Product data: No data available.

Substance data:

Name	Result
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airway.
Naphtha (petroleum), hydrotreated heavy	May be fatal if swallowed and enters airway.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

Other information:

No data available.

SECTION 12: Ecological information

Acute (short-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data:

Name	Result
Cumene	EC50 - Daphnia magna - 1.4 mg/L - 24 h
	LC50 - Pimephales promelas - 6.32 mg/L - 96 h
1, 2, 4-Trimethylbenzene	LC50 - Pimephales promelas - 7.72 mg/L - 96 h

Chronic (long-term) toxicity

Assessment: Based on available data, the classification criteria are not met.

Product data: No data available.

Substance data: No data available.

Persistence and degradability

Product data: No data available.

Substance data: No data available.

Bioaccumulative potential

Product data: No data available.

Substance data: No data available.

Mobility in soil

Product data: No data available.

Substance data: No data available.

Hazard to the ozone layer

Product data: No data available.

Substance data: No data available.

Other adverse effects: No data available.

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transportation information

Road/Rail transport: (NZS 5433:1999)

UN number	1263
UN proper shipping name	Paint
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None

International Air Transport Association Dangerous Goods Regulations (IATA-ICAO)

UN number	1263
UN proper shipping name	Paint
UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
ERG code	3L
Excepted quantities	E1
Passenger and cargo	60L
Cargo aircraft only	220L
Limited quantity	10L
Additional Information	No additional data

International Maritime Dangerous Goods (IMDG)

UN number	1263
UN proper shipping name	Paint

UN transport hazard class(es)	3 
Packing group	III
Environmental hazards	None
Special precautions for user	None
EmS number	F-E, S-E
Stowage category	A
Excepted quantities	E1
Limited quantity	5L

Transport in bulk according to Annex II of MARPOL and the IBC Code: No additional data

SECTION 15: Regulatory information

New Zealand Inventory of Chemicals (NZIoC):

95-63-6	1, 2, 4-Trimethylbenzene	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Listed
1333-86-4	Carbon Black	Listed
1330-20-7	Xylene	Listed
52747-01-0	Propanol, ((1-methyl-1,2- ethanediyl)bis(oxy))bis-, polymer with 1,1'-methylenebis(4- isocyanatobenzene)	Not Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	Listed
26447-40-5	Methylenediphenyl diisocyanate	Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
98-82-8	Cumene	Listed
67815-87-6	Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2- methyloxirane and 1,2-propanediol	Listed

HSNO Classification or Subclasses:

Class	GHS Category	HSNO Category
Flammable liquids	Category 3	3.1C
Skin irritation	Category 2	6.3A
Eye irritation	Category 2A	6.4A
Skin sensitization	Category 1	6.5B
Respiratory sensitization	Category 1	6.5A
Aspiration hazard	Category 1	6.1E
Acute toxicity (inhalation)	Category 4	6.1D
Specific target organ toxicity - single exposure	Category 3, respiratory irritation	6.1E
Specific target organ toxicity - single exposure	Category 3, central nervous system	6.9B

Specific target organ toxicity - repeated exposure	Category 1	6.9A
Carcinogenicity	Category 2	6.7B

HSNO Group Standard Name :	HSNO Approval Number:
Surface Coatings and Colourants (Flammable) Group Standard 2017	HSR002662

SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet