

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 1 of 13

POR-15 Rust Preventive Coating - Silver

SECTION 1: Identification

Product identifier

Product name: POR-15 Rust Preventive Coating - Silver

Product code: 45301; 45304; 45305; 45308; 45355; 245301; 245304;
245305; 245308; 245355



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:

United States

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

Supplier:

Australia

Sydney Automotive Paints & Equipment Pty Ltd
A3 / 366 Edgar Street
Condell Park, NSW 2200 Australia
+61 2 9772 9000

Emergency telephone number:

Australia

Emergency telephone AU Poison Information Centre 13 11 26

General medical information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

Transport information: +61 2 9772 9000 (Mon to Fri, 08:00-16:00 AEST)

SECTION 2: Hazard(s) identification

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

Label elements

Hazard pictograms:



Signal word: Danger

Hazard statements:

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 2 of 13

POR-15 Rust Preventive Coating - Silver

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

Precautionary statements:

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
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
P405 Store locked up
P403+P233 Store in a well ventilated place. Keep container tightly closed
P501 Dispose of contents and container as instructed in Section 13

Hazards not otherwise classified: None

SECTION 3: Composition and information on ingredients

Identification	Name	Weight %
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Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 3 of 13

POR-15 Rust Preventive Coating - Silver

CAS number: 67815-87-6	Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol	28-48
CAS number: 64742-95-6	Solvent naphtha (petroleum), light arom.	32-37
CAS number: 52747-01-0	Propanol, ((1-methyl-1,2-ethanediyl)bis(oxy))bis-, polymer with 1,1'-methylenebis(4-isocyanatobenzene)	8-15
CAS number: 101-68-8	4,4'-Methylenediphenyl diisocyanate	5-12
CAS number: 95-63-6	1, 2, 4-Trimethylbenzene	<12
CAS number: 26447-40-5	Methylenediphenyl diisocyanate	1-7
CAS number: 9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	1-5
CAS number: 7429-90-5	Aluminum	1-3
CAS number: 64742-48-9	Naphtha (petroleum), hydrotreated heavy	<3
CAS number: 1330-20-7	Xylene	<1
CAS number: 98-82-8	Cumene	<0.5

Additional Information: None

SECTION 4: First aid measures

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

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 4 of 13

POR-15 Rust Preventive Coating - Silver

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 applicable.

Immediate medical attention and special treatment

Specific treatment:

Not determined or not applicable.

Notes for the doctor:

Contains isocyanates, consult literature for specific treatment

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: •3Y

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

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 5 of 13

POR-15 Rust Preventive Coating - Silver

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 explosion-proof equipment
Absorb with non-combustible liquid-binding material (sand, diatomaceous 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).

SECTION 8: Exposure controls and personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Australia	Xylene	1330-20-7	TWA: 350 mg/m ³ (80 ppm) ; STEL: 655 mg/m ³ (150 ppm)
	Aluminum	7429-90-5	TWA: 10 mg/m ³ (metal dust); TWA: 5 mg/m ³ (welding fumes as Al); TWA: 5 mg/m ³ (Pyro Powders, as Al)
	4,4'-Methylenediphenyl diisocyanate	101-68-8	TWA: 0.02 mg/m ³ ; STEL: 0.07 mg/m ³
	Cumene	98-82-8	TWA: 125 mg/m ³ (25 ppm) ; STEL: 375 mg/m ³ (75 ppm)

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.

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 6 of 13

POR-15 Rust Preventive Coating - Silver

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

Information on basic physical and chemical properties

Appearance	Silver 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.

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 7 of 13

POR-15 Rust Preventive Coating - Silver

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	270 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: Hazard information

Acute toxicity

Assessment: Harmful if inhaled

Product data: No data available.

Substance data:

Name	Route	Result
Isocyanic acid, polymethylenepolyphenylene ester	inhalation	LC50 - Rat - 490 mg/m ³ /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/m ³

Skin corrosion/irritation

Assessment: Causes skin irritation

Product data:

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 8 of 13

POR-15 Rust Preventive Coating - Silver

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.
Naphtha (petroleum), hydrotreated heavy	Irritating to the skin.
Xylene	Irritating to the skin.
1, 2, 4-Trimethylbenzene	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:

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 9 of 13

POR-15 Rust Preventive Coating - Silver

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.
Propanol, ((1-methyl-1,2-ethanediyl)bis(oxy))bis-, polymer with 1,1'-methylenebis(4-isocyanatobenzene)	Sensitization possible through respiratory contact.
Cumene	No skin irritation
	No eye irritation

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.
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
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:

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 10 of 13

POR-15 Rust Preventive Coating - Silver

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.
Naphtha (petroleum), hydrotreated heavy	Component affects the central nervous system.
Cumene	Component affects the respiratory system.
1, 2, 4-Trimethylbenzene	Component affects the respiratory 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
Naphtha (petroleum), hydrotreated heavy	May be fatal if swallowed and enters airway.
Solvent naphtha (petroleum), light arom.	May be fatal if swallowed and enters airway.

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 11 of 13

POR-15 Rust Preventive Coating - Silver

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

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.

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

Australian Dangerous Goods (ADG)

UN number	1263
UN proper shipping name	Paint
UN transport hazard class(es)	3



Safety Data Sheet

According to the Australian Work Health and Safety Regulations


Initial preparation date: 04.06.2018

Page 12 of 13


POR-15 Rust Preventive Coating - Silver

Packing group	III
Environmental hazards	None
Special precautions for user	None
Hazchem/Emergency Action Code	•3Y

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

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

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

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	None
Ship type	None
Pollution category	None

SECTION 15: Regulatory information

Australia regulations

Safety Data Sheet

According to the Australian Work Health and Safety Regulations

Initial preparation date: 04.06.2018

Page 13 of 13

POR-15 Rust Preventive Coating - Silver

Australian Inventory of Chemical Substances (AICS):

67815-87-6	Isocyanic acid, polymethylenepolyphenylene ester, polymer with 1,2-ethanediamine, 2-methyloxirane and 1,2-propanediol	Listed
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	Listed
26447-40-5	Methylenediphenyl diisocyanate	Listed
101-68-8	4,4'-Methylenediphenyl diisocyanate	Listed
64742-48-9	Naphtha (petroleum), hydrotreated heavy	Listed
64742-95-6	Solvent naphtha (petroleum), light arom.	Listed
7429-90-5	Aluminum	Listed
52747-01-0	Propanol, ((1-methyl-1,2-ethanediyl)bis(oxy))bis-, polymer with 1,1'-methylenebis(4-isocyanatobenzene)	Listed
1330-20-7	Xylene	Listed
98-82-8	Cumene	Listed
95-63-6	1, 2, 4-Trimethylbenzene	Listed

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

1330-20-7	Xylene	Listed
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SECTION 16: Other information

Abbreviations and Acronyms: None

Disclaimer:

This SDS was authored in accordance with the Australian Work Health and Safety Regulations and supplemented by the Australian Code of Practice on the Preparation of Safety Data Sheets for Hazardous Chemicals. 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: 3-2-0

HMIS: 3-2-0

Initial preparation date: 04.06.2018

Additional information:

Version: 1.0

End of Safety Data Sheet