



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

1 Identification

1.1 Product identifier

Trade name **POR-15 TOP COAT SILVER AEROSOL**
Product code(s) 46018

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

Relevant identified uses Paint

1.3 Details of the supplier of the safety data sheet

P.O.R. Products
38 Portman Road
New Rochelle NY 10801
United States

Telephone: +1 914-636-0700
e-mail: support@porproducts.com
Website: www.porproducts.com

e-mail (competent person) support@porproducts.com

1.4 Emergency telephone number

Emergency information service 1-800-255-3924
ChemTel Inc.

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | 1 | Aerosol 1 | H222,H229 |
| 2.12 | substance and mixture which, in contact with water, emits flammable gas | 2 | Water-react. 2 | H261 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.5 | germ cell mutagenicity | 1B | Muta. 1B | H340 |
| 3.6 | carcinogenicity | 1A | Carc. 1A | H350 |
| 3.7 | reproductive toxicity | 2 | Repr. 2 | H361d |
| 3.7L | effects on or via lactation | L | Lact. | H362 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 3.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |

For full text of abbreviations: see SECTION 16.

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure. In contact with water releases flammable gases which may ignite spontaneously.

2.2 Label elements**Labeling**

- Signal word danger

- Pictograms

GHS02, GHS07, GHS08



- Hazard statements

| | |
|-------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurized container: may burst if heated. |
| H261 | In contact with water releases flammable gas. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H361d | Suspected of damaging the unborn child. |
| H362 | May cause harm to breast-fed children. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

- Precautionary statements

| | |
|----------------|--|
| P201 | Obtain special instructions before use. |
| 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. |
| P223 | Do not allow contact with water. |
| P231+P232 | Handle and store contents under inert gas. Protect from moisture. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe dusts or mists. |
| P263 | Avoid contact during pregnancy and while nursing. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves. |
| P302+P335+P334 | IF ON SKIN: Brush off loose particles from skin. Immerse in cool water. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep 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. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P321 | Specific treatment (see on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P402+P404 | Store in a dry place. Store in a closed container. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container to industrial combustion plant. |

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

- Hazardous ingredients for labelling

n-butane, toluene, acetone, VM&P Naptha

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

3 Composition/ Information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS |
|-------------------|----------------------|-----------|--|
| acetone | CAS No 67-64-1 | 10 – < 30 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 |
| propane | CAS No 78-93-3 | 10 – < 30 | Flam. Liq. 2 / H225 Eye Irrit. 2 / H319 STOT SE 3 / H336 |
| n-butane | CAS No 106-97-8 | 10 – < 30 | Flam. Gas 1 / H220 Press. Gas C / H280 Muta. 1B / H340 Carc. 1A / H350 |
| toluene | CAS No 108-88-3 | 5 – < 10 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361d STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 |
| n-butyl acetate | CAS No 123-86-4 | 5 – < 10 | Flam. Liq. 3 / H226 STOT SE 3 / H336 |
| VM&P Naptha | CAS No 64742-89-8 | 5 – < 10 | Flam. Liq. 1 / H224 Muta. 1B / H340 Carc. 1A / H350 Asp. Tox. 1 / H304 |
| glycol ether EP | CAS No 2807-30-9 | 1 – < 5 | Flam. Liq. 3 / H226 Acute Tox. 4 / H312 Eye Irrit. 2 / H319 |
| Aluminum flake | CAS No 7429-90-5 | 1 – < 5 | Pyr. Sol. 1 / H250 Water-react. 2 / H261 Acute Tox. 3 / H331 |

Remarks

For full text of abbreviations: see SECTION 16



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

4 First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed

none

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

D-Powder, Dry sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Product may release hydrogen gas. Increased storage temperatures will accelerate this process. Water-reactive (in contact with water releases flammable gases).

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

- Incompatible substances or mixtures

Do not allow contact with water.

- Evaporative conditions

Keep container tightly closed and in a well-ventilated place.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.



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acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

8 Exposure controls/ Personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|-------------------------------------|-----------|--------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------------|
| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
| CA | butane | 106-97-8 | OEL (AB) | 1,000 | | | | | | | OHS Code |
| CA | butane | 106-97-8 | PEV/VEA | 800 | 1,900 | | | | | | Regulation OHS |
| CA | n-butane | 106-97-8 | OEL (BC) | | | 1,000 | | | | E | "BC Regulation" |
| CA | n-butane | 106-97-8 | OEL (ON-MoL) | | | 1,000 | | | | E | MoL |
| CA | toluene | 108-88-3 | OEL (BC) | 20 | | | | | | | "BC Regulation" |
| CA | toluene | 108-88-3 | OEL (ON-MoL) | 20 | | | | | | | MoL |
| CA | toluene | 108-88-3 | PEV/VEA | 20 | | | | | | | Regulation OHS |
| CA | toluene (toluol) | 108-88-3 | OEL (AB) | 50 | 188 | | | | | H | OHS Code |
| CA | n-butyl acetate | 123-86-4 | OEL (AB) | 150 | 713 | 200 | 950 | | | | OHS Code |
| CA | n-butyl acetate | 123-86-4 | OEL (BC) | 50 | | 150 | | | | | "BC Regulation" |
| CA | n-butyl acetate | 123-86-4 | OEL (ON-MoL) | 50 | | 150 | | | | | MoL |
| CA | n-butyl acetate | 123-86-4 | PEV/VEA | 50 | | 150 | | | | | Regulation OHS |
| CA | ethylene glycol mono-n-propyl ether | 2807-30-9 | OEL (ON) | 25 | 110 | | | | | H | Regulation 833 |
| CA | ethylene glycol mono-n-propyl ether | 2807-30-9 | OEL (ON-MoL) | 25 | 110 | | | | | H | MoL |
| CA | acetone | 67-64-1 | OEL (AB) | 500 | 1,200 | 750 | 1,800 | | | | OHS Code |
| CA | acetone | 67-64-1 | OEL (BC) | 250 | | 500 | | | | | "BC Regulation" |
| CA | acetone | 67-64-1 | OEL (ON-MoL) | 250 | | 500 | | | | | MoL |



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|----------------------------------|-----------|--------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|-----------------|
| CA | acetone | 67-64-1 | PEV/VEA | 250 | | 500 | | | | | Regulation OHS |
| CA | aluminium | 7429-90-5 | PEV/VEA | | 5 | | | | | | Regulation OHS |
| CA | aluminium | 7429-90-5 | OEL (AB) | | 10 | | | | | dust | OHS Code |
| CA | aluminium | 7429-90-5 | OEL (AB) | | 5 | | | | | pyro_p | OHS Code |
| CA | aluminium | 7429-90-5 | OEL (BC) | | 1 | | | | | r | "BC Regulation" |
| CA | aluminium | 7429-90-5 | OEL (ON-MoL) | | 1 | | | | | r | MoL |
| CA | 2-butanone (methyl ethyl ketone) | 78-93-3 | OEL (AB) | 200 | 590 | 300 | 885 | | | | OHS Code |
| CA | methyl ethyl ketone (MEK) | 78-93-3 | OEL (BC) | 50 | | 100 | | | | | "BC Regulation" |
| CA | methyl ethyl ketone (MEK) | 78-93-3 | OEL (ON-MoL) | 200 | | 300 | | | | | MoL |
| CA | methyl ethyl ketone (MEK) | 78-93-3 | PEV/VEA | 50 | 150 | 100 | 300 | | | | Regulation OHS |

Notation

| | |
|-----------|--|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| dust | as dust |
| E | explosive |
| H | absorbed through the skin |
| pyro_p | as pyrophoric powder |
| r | respirable fraction |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) |

Relevant DNELs of components

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-------------------|---------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| acetone | 67-64-1 | DNEL | 1,210 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| acetone | 67-64-1 | DNEL | 2,420 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| acetone | 67-64-1 | DNEL | 186 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| Relevant DNELs of components | | | | | | |
|------------------------------|-----------|----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| propane | 78-93-3 | DNEL | 600 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| propane | 78-93-3 | DNEL | 1,161 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| toluene | 108-88-3 | DNEL | 192 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| toluene | 108-88-3 | DNEL | 384 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |
| toluene | 108-88-3 | DNEL | 192 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| toluene | 108-88-3 | DNEL | 384 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| toluene | 108-88-3 | DNEL | 384 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| glycol ether EP | 2807-30-9 | DNEL | 36 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| glycol ether EP | 2807-30-9 | DNEL | 3.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

| Relevant PNECs of components | | | | | | |
|------------------------------|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| acetone | 67-64-1 | PNEC | 10.6 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| acetone | 67-64-1 | PNEC | 1.06 mg/l | aquatic organisms | marine water | short-term (single instance) |
| acetone | 67-64-1 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| acetone | 67-64-1 | PNEC | 30.4 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| acetone | 67-64-1 | PNEC | 3.04 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| acetone | 67-64-1 | PNEC | 29.5 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| propane | 78-93-3 | PNEC | 55.8 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| propane | 78-93-3 | PNEC | 55.8 mg/l | aquatic organisms | marine water | short-term (single instance) |
| propane | 78-93-3 | PNEC | 709 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| Relevant PNECs of components | | | | | | |
|------------------------------|-----------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| propane | 78-93-3 | PNEC | 284.7 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| propane | 78-93-3 | PNEC | 284.7 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| propane | 78-93-3 | PNEC | 22.5 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 0.68 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 0.68 mg/l | aquatic organisms | marine water | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 13.61 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 16.39 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 16.39 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| toluene | 108-88-3 | PNEC | 2.89 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 0.1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 0.01 mg/l | aquatic organisms | marine water | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 0.594 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 0.059 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| glycol ether EP | 2807-30-9 | PNEC | 0.06 mg/kg | terrestrial organisms | soil | short-term (single instance) |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid, solid, gaseous (spray aerosol) |
| Color | not determined |
| Odor | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | -161.5 °C at 1,013 hPa |
| Flammability | flammable aerosol in accordance with GHS criteria mixture which, in contact with water, emits flammable gases (in accordance with GHS criteria) |
| Lower and upper explosion limit | 1.1 vol% - 15 vol% |
| Flash point | -88.6 °C at 1,013 hPa |
| Auto-ignition temperature | 256 °C (auto-ignition temperature (liquids and gases)) |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not relevant |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| | |
|----------------|---------------------|
| Vapor pressure | ≤240 kPa at 37.8 °C |
|----------------|---------------------|

Density and/or relative density

| | |
|-------------------------|---|
| Density | not determined |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|------------------------|
| Particle characteristics | not relevant (aerosol) |
|--------------------------|------------------------|

9.2 Other information

Information with regard to physical hazard classes

Aerosols

| | |
|--------------------------|------|
| - Components (flammable) | 92 % |
|--------------------------|------|

Other safety characteristics

| | |
|--------------------|--------|
| Solid content | 3 % |
| Propellant content | 14.2 % |

10 Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition. Water reactivity.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

Material reacts vigorously with water emitting flammable gases.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

10.5 Incompatible materials

Water, Oxidizers

Release of flammable materials with:

Water

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

11 Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

| Name of substance | CAS No | Exposure route | ATE |
|-------------------|-----------|-----------------------|----------------|
| glycol ether EP | 2807-30-9 | dermal | 1,100 mg/kg |
| Aluminum flake | 7429-90-5 | inhalation: dust/mist | >0.888 mg/l/4h |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

May cause cancer.

Reproductive toxicity

Suspected of damaging the unborn child. May cause harm to breast-fed children.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

12 Ecological information

12.1 Toxicity

Harmful to aquatic life.

Aquatic toxicity (acute) of components

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|-------------------|------------|----------|-------------|-----------------------|---------------|
| acetone | 67-64-1 | LC50 | 8,120 mg/l | fish | 96 h |
| propane | 78-93-3 | LC50 | 2,993 mg/l | fish | 96 h |
| propane | 78-93-3 | EC50 | 308 mg/l | aquatic invertebrates | 48 h |
| propane | 78-93-3 | ErC50 | 2,029 mg/l | algae | 96 h |
| n-butane | 106-97-8 | LC50 | 49.9 mg/l | fish | 96 h |
| n-butane | 106-97-8 | EC50 | 19.37 mg/l | algae | 96 h |
| toluene | 108-88-3 | LC50 | 5.5 mg/l | fish | 96 h |
| toluene | 108-88-3 | EC50 | 84 mg/l | microorganisms | 24 h |
| n-butyl acetate | 123-86-4 | LC50 | 18 mg/l | fish | 96 h |
| n-butyl acetate | 123-86-4 | EC50 | 18 mg/l | fish | 96 h |
| n-butyl acetate | 123-86-4 | ErC50 | 335 mg/l | algae | 24 h |
| VM&P Naptha | 64742-89-8 | LL50 | 8.2 mg/l | fish | 96 h |
| VM&P Naptha | 64742-89-8 | EL50 | 4.5 mg/l | aquatic invertebrates | 48 h |
| glycol ether EP | 2807-30-9 | LC50 | >5,000 mg/l | fish | 96 h |
| glycol ether EP | 2807-30-9 | ErC50 | >100 mg/l | algae | 72 h |
| glycol ether EP | 2807-30-9 | EC50 | >100 mg/l | algae | 72 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

12.7 Other adverse effects

Data are not available.

13 Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

14 Transport information

14.1 UN number

| | |
|-----------|---------|
| UN RTDG | UN 1950 |
| IMDG-Code | UN 1950 |
| ICAO-TI | UN 1950 |

14.2 UN proper shipping name

| | |
|-----------|---------------------|
| UN RTDG | AEROSOLS |
| IMDG-Code | AEROSOLS |
| ICAO-TI | Aerosols, flammable |

14.3 Transport hazard class(es)

| | |
|-----------|-----|
| UN RTDG | 2.1 |
| IMDG-Code | 2.1 |
| ICAO-TI | 2.1 |

14.4 Packing group

not assigned

14.5 Environmental hazards

non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

Transport information - National regulations - Additional information (UN RTDG)

UN number 1950
Class 2.1
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959 (UN RTDG)
Excepted quantities (EQ) E0 (UN RTDG)
Limited quantities (LQ) 1 L (UN RTDG)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Marine pollutant -
Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959
Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U
Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167
Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

15 Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

- Specific Toxic Chemical Listings (EPCRA Section 313)

| Toxics Release Inventory: Specific Toxic Chemical Listings | | | |
|--|-----------|--------------|----------------|
| Name of substance | CAS No | Remarks | Effective date |
| toluene | 108-88-3 | | 1986-12-31 |
| Aluminum flake | 7429-90-5 | fume or dust | 1986-12-31 |

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|-------------------|----------|---------|------------------|----------------------|
| acetone | 67-64-1 | | 4 | 5000 (2270) |
| propane | 78-93-3 | | 4 | 5000 (2270) |
| toluene | 108-88-3 | | 1 2 3 4 | 1000 (454) |
| n-butyl acetate | 123-86-4 | | 1 | 5000 (2270) |

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act
- 2 "2" indicates that the source is section 307(a) of the Clean Water Act
- 3 "3" indicates that the source is section 112 of the Clean Air Act
- 4 "4" indicates that the source is section 3001 of the Resource Conservation and Recovery Act (RCRA)

Clean Air Act

| Name of substance | CAS No | Type of registration | Basis for listing | Threshold quantity (lbs) |
|-------------------|----------|----------------------|-------------------|--------------------------|
| n-butane | 106-97-8 | Flammable substance | f | 10000 |

Legend

- f Flammable gas.

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | CAS No | Functionality | Authoritative Lists |
|-------------------|----------|---------------|--|
| acetone | 67-64-1 | | ATSDR Neurotoxicants |
| propane | 78-93-3 | | ATSDR Neurotoxicants CA TACs OEHA RELs |
| n-butane | 106-97-8 | | EC Annex VI CMRs - Cat. 1A EC Annex VI CMRs - Cat. 1B |



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| Name of substance | CAS No | Functionality | Authoritative Lists |
|-------------------|------------|---------------|--|
| toluene | 108-88-3 | | ATSDR Neurotoxicants CA MCLs CA TACs CDC 4th National Exposure Report CWA 303(c) IRIS Neurotoxicants OEHHA RELs Prop 65 |
| VM&P Naptha | 64742-89-8 | | EC Annex VI CMRs - Cat. 1B |
| glycol ether EP | | | CA TACs |
| Aluminum flake | 7429-90-5 | | ATSDR Neurotoxicants CA MCLs CWA 303(d) |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|-------------------|-----------|----------|-----------------|---------------------|------------------------------------|
| acetone | 67-64-1 | | | | 1.0 % |
| propane | 78-93-3 | | | | 1.0 % |
| toluene | 108-88-3 | | | | 1.0 % |
| n-butyl acetate | 123-86-4 | | LHS | | 1.0 % |
| glycol ether EP | | 1022 | | | 1.0 % |
| Aluminum flake | 7429-90-5 | | | | 1.0 % |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-------------------|-----------|------------|---------|
| acetone | 67-64-1 | A, N, O | |
| propane | 78-93-3 | A, N, O | |
| toluene | 108-88-3 | A, N, O | skin |
| n-butyl acetate | 123-86-4 | A, O | |
| n-butane | | N | |
| Aluminum flake | 7429-90-5 | A | |
| Aluminum flake | 7429-90-5 | A | fume |
| Aluminum flake | 7429-90-5 | A | dust |

Legend

- A American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices for 1992-93", available from ACGIH
- dust If the substance poses an airborne particulate exposure hazard, the substance is followed by the word "dust."
- fume Small solid particles formed by the condensation of vapors of solid materials.
- N National Institute for Occupational Safety and Health (NIOSH), "Recommendations for Occupational Safety and Health Standards," August 1988, available from NIOSH, Publications Dissemination Office, Division of Standards Development and Technology Transfer



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

Legend

O Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Occupational Safety and Health Division
skin If a potential for absorption from skin contact merits special consideration, the word "skin" follows the substance name.

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|-------------------|-----------|---------|-----------------|
| acetone | 67-64-1 | | F3 |
| propane | 78-93-3 | | F3 |
| toluene | 108-88-3 | | TE F3 |
| n-butyl acetate | 123-86-4 | | F3 |
| n-butane | 106-97-8 | | F4 |
| glycol ether EP | | | |
| Aluminum flake | 7429-90-5 | | F3 R1 |

Legend

F3 Flammable - Third Degree
F4 Flammable - Fourth Degree
R1 Reactive - First Degree
TE Teratogenic

- Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory | CAS No | Classification |
|--------------------------|-----------|----------------|
| 2-PROPANONE | 67-64-1 | E |
| 2-BUTANONE | 78-93-3 | E |
| BENZENE, METHYL- | 108-88-3 | E |
| ACETIC ACID, BUTYL ESTER | 123-86-4 | E |
| BUTANE | 106-97-8 | |
| GLYCOL ETHERS | | E |
| ALUMINUM | 7429-90-5 | E |

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| Name of substance | CAS No | References |
|-------------------|-----------|------------|
| acetone | 67-64-1 | T, F |
| propane | 78-93-3 | T, F |
| toluene | 108-88-3 | T, F |
| toluene | 108-88-3 | T, F |
| toluene | 108-88-3 | T, F |
| n-butyl acetate | 123-86-4 | T, F |
| n-butane | 106-97-8 | T, F |
| Aluminum flake | 7429-90-5 | T, F |

Legend

F Flammability (NFPA®)
T Toxicity (ACGIH®)

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Proposition 65 List of chemicals

| Name acc. to inventory | CAS No | Remarks | Type of the toxicity |
|------------------------|----------|---------|----------------------|
| toluene | 108-88-3 | | developmental |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 4 | material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily |
| Physical hazard | 2 | materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with water or form peroxides upon exposure to air |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

| Category | Degree of hazard | Description |
|----------------|------------------|---|
| Flammability | 4 | material that rapidly or completely vaporizes at atmospheric pressure and normal ambient temperature or that is readily dispersed in air and burn readily |
| Health | 2 | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability | 2 | material that readily undergoes violent chemical change at elevated temperatures and pressures |
| Special hazard | W | material that can form potentially explosive mixtures with water |

National regulations (Canada)

Domestic Substances List (DSL)/Non-domestic Substances List (NDSL)

All ingredients are listed or exempt from listing.

Domestic Substances List (DSL)

All ingredients are listed.

National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| US | TSCA | all ingredients are listed (ACTIVE) |
| AU | AIIC | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | not all ingredients are listed |
| TW | TCSI | all ingredients are listed |

Legend

| | |
|-----------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

POR-15 TOP COAT SILVER AEROSOL

Version number: GHS 3.0
Replaces version of: 2023-07-03 (GHS 2)

Revision: 2024-02-15

Legend

| | |
|------------|---|
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

16 Other information

Key literature references and sources for data

Hazardous Products Regulations (HPR)
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG).
Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.