

# 1K Zinc Weld Thru Primer

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022  
Issue date: 2023-06-02 Revision date: 2025-10-31 Supersedes: 2023-06-02 Version: 2.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : 1K Zinc Weld Thru Primer  
Product code : 3680251 / REZ49  
Vaporizer : Aerosol

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Recommended use : Automotive refinish,

#### 1.4. Supplier's details

##### Manufacturer

Peter Kwasny GmbH  
96 Heibronner Str.  
Gundelsheim, 74831  
Germany  
T 49(0) 6269-95-20

##### Distributor

Peter Kwasny, Inc.  
12222 Merit Drive, #130  
Dallas, TX 75251  
USA  
T 1-844-426-6330

##### Distributor

Peter Kwasny Spraypaint Canada Inc  
40 University Avenue, Suite 904  
Toronto, ON, M5J 1T1  
Canada  
T +1 844-426-6330

#### 1.5. Emergency phone number

Emergency number : North America  
INFOTRAC International +1 (352) 323-5000 24 hr

### SECTION 2 Hazard identification

#### 2.1. Classification of the substance or mixture

##### GHS classification

Aerosol, Category 1  
Eye irritation, Category 2A  
Carcinogenicity, Category 2  
Reproductive toxicity, Category 2  
Specific target organ toxicity – Single exposure, Category 3, Narcosis  
Specific target organ toxicity, Repeated exposure, Category 2

#### 2.2. Label elements

##### GHS labelling

Hazard pictograms (GHS) :



Signal word (GHS) :

Danger

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|                                |   |
|--------------------------------|---|
| Hazard statements (GHS)        | : Extremely flammable aerosol<br>Pressurized container; may burst if heated<br>Causes serious eye irritation<br>May cause drowsiness or dizziness<br>Suspected of causing cancer.<br>Suspected of damaging the unborn child.<br>May cause damage to organs (hearing organs) through prolonged or repeated exposure  |
| Precautionary statements (GHS) | : If medical advice is needed, have product container or label at hand.<br>Keep out of reach of children.<br>Read label before use.<br>Obtain special instructions before use.<br>Do not handle until all safety precautions have been read and understood.<br>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>Do not spray on an open flame or other ignition source.<br>Do not pierce or burn, even after use.<br>Do not breathe gas, vapours.<br>Wash hands, forearms and face thoroughly after handling.<br>Use only outdoors or in a well-ventilated area.<br>Wear protective gloves, protective clothing, eye and face protection.<br>If exposed or concerned: Get medical advice/attention.<br>If inhaled: Remove person to fresh air and keep comfortable for breathing.<br>Call a POISON CENTER or a doctor if you feel unwell.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice or attention.<br>Store in a well-ventilated place. Keep container tightly closed.<br>Store locked up.<br>Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).<br>Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations. |

### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Contact with the liquefied gas may cause frostbite.

### 2.5. Unknown acute toxicity

Not applicable

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name          | Chemical name / Synonyms  | Product identifier | Conc. (% w/w) |
|---------------|---|--------------------|---------------|
| Ethyl acetate | Ethyl acetate<br>Acetic acid, ethyl ester / Ethyl ethanoate / ETHYL ACETATE | CAS-No.: 141-78-6  | 10 – 30       |
| Propane       | Propane<br>Normal propane / PROPANE / n-Propane / R290 / R-290              | CAS-No.: 74-98-6   | 10 – 30       |

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| Name                                      | Chemical name / Synonyms  | Product identifier | Conc. (% w/w) |
|---|---|--------------------|---------------|
| n-Butane                                  | n-Butane<br>Butane / BUTANE   | CAS-No.: 106-97-8  | 10 – 30       |
| Acetone                                   | Acetone<br>Dimethyl ketone / 2-Propanone / ACETONE / Propan-2-one / Propanone   | CAS-No.: 67-64-1   | 5 – 10        |
| Isobutane                                 | Isobutane<br>2-Methylpropane / Propane, 2-methyl- / ISOBUTANE / R600a / isobutane / R-600a  | CAS-No.: 75-28-5   | 5 – 10        |
| Xylenes (o-, m-, p- isomers)              | Xylenes (o-, m-, p- isomers)<br>Benzene, dimethyl- / Dimethylbenzene (mixed isomers) / Xylene / Xylene (all isomers) / Xylene (mixed isomers) / Xylene (o-, m-, p- isomers) / Xylenes / Xylenes (mixed isomers) / Dimethylbenzene / Xylol / Benzene, dimethyl-, mixed isomers / XYLENE / Dimethylbenzenes / Xylene isomers mixture / Dimethylbenzene (2-, 3-, 4-isomers) / Dimethylbenzene (mixed 2-, 3-, 4-isomers) / C8 Disubstituted benzenes / Xylene, mixed isomers / Xylenes (meta-, ortho-, para-) / Xylene (mixture), including m-xylene, o-xylene, p-xylene / Xylene (o-,m-,p- isomer mixture)   | CAS-No.: 1330-20-7 | 3 – 7         |
| Propylene glycol monomethyl ether acetate | Propylene glycol monomethyl ether acetate<br>1-Methoxypropyl acetate / 2-Propanol, 1-methoxy-, 2-acetate / 2-Acetic acid methoxy-1-methylethyl ester / Methoxyisopropyl acetate / 1-Methoxy-2-propyl acetate / 1-Methoxypropylacetate / Propylene glycol methyl ether acetate / 2-Propanol, 1-methoxy-, acetate / 1-Methoxypropyl-2-acetate / 1-Methoxy-2-propanol acetate / 1-Methoxy-2-acetoxypropane / 2-Methoxy-1-methylethyl acetate / Acetic acid, 2-methoxy-1-methylethyl ester / Acetate, 1-methoxy-2-propyl / METHOXYISOPROPYL ACETATE / Propylene glycol methyl ether acetate, .alpha.-isomer / Propylene glycol methyl ether acetate (all isomers) / PGMEA / 1-Methoxypropan-2-yl acetate / Acetic acid, 2-methoxyisopropyl ester / 1-Methoxypropan-2-ol acetate | CAS-No.: 108-65-6  | 1 – 5         |
| Ethylbenzene                              | Ethylbenzene<br>Benzene, ethyl- / Phenylethane / ETHYLBENZENE   | CAS-No.: 100-41-4  | 1 – 5         |
| Aluminum                                  | aluminium powder (stabilised)<br>Aluminium / Aluminium metal / Aluminium, metal / Aluminum metal / Aluminum, elemental / Aluminum, metal / C.I. 77000 / CI 77000 / Aluminium powder (stabilised) / Aluminium powder (stabilized) / Aluminium powder / Pigment Metal 1 / Aluminum powder / Aluminium metal, powder / Aluminum powder (pigment metal 1)   | CAS-No.: 7429-90-5 | 1 – 5         |

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| Name                                   | Chemical name / Synonyms   | Product identifier  | Conc. (% w/w) |
|--|--|---------------------|---------------|
| Naphtha, petroleum, hydrotreated heavy | Naphtha, petroleum, hydrotreated heavy<br>Naphtha (petroleum), hydrotreated heavy / Naphtha, (petroleum), hydrotreated heavy / Hydrotreated heavy naphtha / Isopar 350 / White spirit type 3 / Aliphatic oil / Synthetic isoparaffin, C6-13 / C10-12 ALKANE/CYCLOALKANE / Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha / Naphtha, petroleum, hydrotreated, heavy / Ligroine (petroleum), hydrotreated heavy / Hydrocarbons, C9-11, n-alkanes, isoalkanes, cyclics, < 2% aromatics / Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6 through C13 and boiling in the range of approximately 65°C to 230°C (149°F to 446°F).] / c9-11 alkane/cycloalkane / Naphtha (petroleum), hydrotreated heavy predominantly C6-13 / Naphtha (petroleum), hydrotreated heavy - low boiling point hydrogen treated naphtha / Naphtha, petroleum, hydrotreated heavy (A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C6-13 and boiling in the range of approximately 65-230°C.) / Naphtha (petroleum), hydrotreated heavy - low boiling point thermally cracked naphtha / Hydrotreated heavy naphtha (petroleum) | CAS-No.: 64742-48-9 | 1 – 5         |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

## SECTION 4 First-aid measures

### 4.1. Description of necessary first-aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.   |
| First-aid measures after inhalation   | : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.   |
| First-aid measures after skin contact | : If on skin: Wash with plenty of water. If frostbite occurs thaw frosted parts with lukewarm water. Do not rub affected area. Do not use hot water. . If skin irritation occurs: Wash skin with plenty of water.  |
| First-aid measures after eye contact  | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If frostbite occurs thaw frosted parts with lukewarm water. Do not rub affected area. Do not use hot water. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.   |

### 4.2. Most important symptoms/effects, acute and delayed

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.  |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause frostbite on contact with the liquefied gas.  |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause frostbite on contact with the liquefied gas. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.   |

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Chronic symptoms : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Suspect of damage the unborn child.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : Do not use water jet.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol. Products of combustion may include, and are not limited to: oxides of carbon. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Irritating vapours.  
Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Ruptured cylinders may rocket.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area. Move containers away from the fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.  
Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate every possible source of ignition. Use only non-sparking tools. Use special care to avoid static electric charges. Isolate from fire, if possible, without unnecessary risk.

#### For non-emergency personnel

No additional information available

#### For emergency responders

Environmental precautions : Prevent entry to sewers and public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.  
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

For further information refer to section 8: "Exposure controls/personal protection"

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### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe gas, vapours. Do not get in eyes, on skin, or on clothing. Do not swallow. Wear appropriate PPE (see Section 8). Handle and open container with care. When using do not eat, drink or smoke. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Use only outdoors or in a well-ventilated area.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.
- Additional hazards when processed : Do not pierce or burn, even after use. Hazardous waste due to potential risk of explosion.

#### 7.2. Conditions for safe storage, including incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C/ 122 °F. Keep in fireproof place. Store locked up. Store away from direct sunlight or other heat sources. Store in a well-ventilated place. Protect containers from physical damage.
- Specific end uses : Automotive refinish.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

| Propane (74-98-6)                                 |  |
|---|--|
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| Local name  | Propane  |
| Remark (ACGIH®)                                   | TLV® Basis: Simple Asphyxiant                            |
| ACGIH® chemical category                          | Simple asphyxiant See Appendix F: Minimal Oxygen Content |
| Regulatory reference                              | ACGIH 2024   |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | Propane  |
| OSHA PEL TWA                                      | 1800 mg/m <sup>3</sup>                                   |
| OSHA PEL TWA                                      | 1000 ppm   |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                 |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |  |
| IDLH  | 2100 ppm (10% LEL)                                       |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |  |
| NIOSH REL TWA                                     | 1800 mg/m <sup>3</sup>                                   |
| NIOSH REL TWA                                     | 1000 ppm   |
| <b>n-Butane (106-97-8)</b>                        |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| ACGIH® TLV® STEL                                  | 1000 ppm (explosion hazard (Butane, isomers))            |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |  |
| IDLH  | 1600 ppm (>10% LEL)                                      |

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| <b>n-Butane (106-97-8)</b>                        |  |
|---|--|
| <b>USA - NIOSH - Occupational Exposure Limits</b> |  |
| NIOSH REL TWA                                     | 1900 mg/m <sup>3</sup>   |
| NIOSH REL TWA                                     | 800 ppm  |
| <b>Isobutane (75-28-5)</b>                        |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| Local name  | Isobutane  |
| ACGIH® TLV® STEL                                  | 1000 ppm (EX - Explosion hazard)   |
| Remark (ACGIH®)                                   | TLV® Basis: CNS impair   |
| Regulatory reference                              | ACGIH 2021   |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |  |
| NIOSH REL TWA                                     | 1900 mg/m <sup>3</sup>   |
| NIOSH REL TWA                                     | 800 ppm  |
| <b>Acetone (67-64-1)</b>                          |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| Local name  | Acetone  |
| ACGIH® TLV® TWA                                   | 594 mg/m <sup>3</sup>  |
| ACGIH® TLV® TWA                                   | 250 ppm  |
| ACGIH® TLV® STEL                                  | 1187 mg/m <sup>3</sup>   |
| ACGIH® TLV® STEL                                  | 500 ppm  |
| Remark (ACGIH®)                                   | TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI |
| ACGIH® chemical category                          | Not Classifiable as a Human Carcinogen   |
| Regulatory reference                              | ACGIH 2025   |
| <b>USA - ACGIH - Biological Exposure Indices</b>  |  |
| Local name  | Acetone  |
| BEI   | 25 mg/l Parameter: Acetone - Medium: urine - Sampling time: end of shift (nonspecific)             |
| Regulatory reference                              | ACGIH 2025   |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |  |
| Local name  | Acetone  |
| OSHA PEL TWA                                      | 2400 mg/m <sup>3</sup>   |
| OSHA PEL TWA                                      | 1000 ppm   |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1   |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |  |
| IDLH  | 2500 ppm (10% LEL)   |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |  |
| Local name  | Acetone  |
| NIOSH REL TWA                                     | 590 mg/m <sup>3</sup>  |

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| <b>Acetone (67-64-1)</b>                                    |  |
|---|--|
| NIOSH REL TWA   | 250 ppm  |
| NIOSH REL 10h TWA   | 250 ppm  |
| Regulatory reference (US-NIOSH)                             | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))  |
| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |  |
| <b>USA - AIHA - Occupational Exposure Limits</b>            |  |
| WEEL TWA  | 50 ppm   |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>           |  |
| Local name  | Xylene, mixed isomers (Dimethylbenzene)  |
| ACGIH® TLV® TWA   | 20 ppm   |
| Remark (ACGIH®)   | TLV® Basis: Eye & URT irr; CNS impair; Hematologic eff; Ototoxicity (p-xylene). Notations: OTO (Ototoxicant) (p isomer); A4 (Not classifiable as a Human Carcinogen); BEI  |
| ACGIH® chemical category                                    | Not Classifiable as a Human Carcinogen   |
| Regulatory reference  | ACGIH 2025   |
| <b>USA - ACGIH - Biological Exposure Indices</b>            |  |
| Local name  | Xylene, all isomers (Dimethylbenzene)  |
| BEI   | 1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: end of shift (technical or commercial grade)   |
| Remark  | Commercial or technical grade xylenes consist of mixtures of isomers and significant amounts of ethyl benzene as indicated under "Properties." Because ethyl benzene is known to reduce the metabolism of xylenes to methylhippuric acids, the BEI applies to technical or commercial grades of xylenes only. The determinants refer to the total of all isomers of methylhippuric acids |
| Regulatory reference  | ACGIH 2025   |
| <b>USA - OSHA - Occupational Exposure Limits</b>            |  |
| Local name  | Xylenes (o-, m-, p-isomers)  |
| OSHA PEL TWA  | 435 mg/m³  |
| OSHA PEL TWA  | 100 ppm  |
| Regulatory reference (US-OSHA)                              | OSHA Annotated Table Z-1   |
| <b>USA - NIOSH - Occupational Exposure Limits</b>           |  |
| Local name  | Xylenes (o-, m-, p-isomers)  |
| NIOSH REL 10h TWA   | 100 ppm  |
| NIOSH REL STEL  | 150 ppm  |
| Regulatory reference (US-NIOSH)                             | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))  |
| <b>Ethylbenzene (100-41-4)</b>                              |  |
| <b>USA - ACGIH - Occupational Exposure Limits</b>           |  |
| Local name  | Ethyl benzene  |
| ACGIH® TLV® TWA   | 20 ppm   |

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| Ethylbenzene (100-41-4)                    |  |
|--|--|
| Remark (ACGIH®)                            | TLV® Basis: URT & Eye irr; Kidney eff; Ototoxicity; CNS impair. Notations: OTO (Ototoxicant); A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI |
| ACGIH® chemical category                   | Confirmed Animal Carcinogen with Unknown Relevance to Humans   |
| Regulatory reference                       | ACGIH 2025   |
| USA - ACGIH - Biological Exposure Indices  |  |
| BEI  | 0.15 g/g creatinine Parameter: Sum of mandelic acid and phenylglyoxylic acid - Medium: urine<br>- Sampling time: end of shift (nonspecific)                          |
| USA - OSHA - Occupational Exposure Limits  |  |
| Local name                                 | Ethyl benzene  |
| OSHA PEL TWA                               | 435 mg/m³  |
| OSHA PEL TWA                               | 100 ppm  |
| Regulatory reference (US-OSHA)             | OSHA Annotated Table Z-1   |
| USA - IDLH - Occupational Exposure Limits  |  |
| IDLH                                       | 800 ppm (10% LEL)  |
| USA - NIOSH - Occupational Exposure Limits |  |
| NIOSH REL TWA                              | 435 mg/m³  |
| NIOSH REL TWA                              | 100 ppm  |
| NIOSH REL STEL                             | 545 mg/m³  |
| NIOSH REL STEL                             | 125 ppm  |
| Aluminum (7429-90-5)                       |  |
| USA - ACGIH - Occupational Exposure Limits |  |
| Local name                                 | Aluminum, metal and insoluble compounds  |
| ACGIH® TLV® TWA                            | 1 mg/m³ (respirable particulate matter)  |
| Remark (ACGIH®)                            | TLV® Basis: Pneumoconiosis; LRT irr; neurotoxicity. Notations: A4 (Not classifiable as a Human Carcinogen)   |
| ACGIH® chemical category                   | Not Classifiable as a Human Carcinogen   |
| Regulatory reference                       | ACGIH 2025   |
| USA - OSHA - Occupational Exposure Limits  |  |
| Local name                                 | Aluminum Metal (as Al)   |
| OSHA PEL TWA                               | 15 mg/m³ (total dust)<br>5 mg/m³ (respirable fraction)   |
| Regulatory reference (US-OSHA)             | OSHA Annotated Table Z-1   |
| USA - NIOSH - Occupational Exposure Limits |  |
| Local name                                 | Aluminum Metal (as Al)   |
| NIOSH REL TWA                              | 10 mg/m³ (total dust)<br>5 mg/m³ (respirable dust)   |
| NIOSH REL 10h TWA                          | 10 mg/m³ (Total dust)<br>5 mg/m³ (Respirable fraction)   |
| Regulatory reference (US-NIOSH)            | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))  |

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| Ethyl acetate (141-78-6)                          |                        |
|---|------------------------|
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                        |
| ACGIH® TLV® TWA                                   | 400 ppm                |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                        |
| OSHA PEL TWA                                      | 1400 mg/m <sup>3</sup> |
| OSHA PEL TWA                                      | 400 ppm                |
| <b>USA - IDLH - Occupational Exposure Limits</b>  |                        |
| IDLH  | 2000 ppm (10% LEL)     |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                        |
| NIOSH REL TWA                                     | 1400 mg/m <sup>3</sup> |
| NIOSH REL TWA                                     | 400 ppm                |

### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
- Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

|   |
|---|
| <b>Hand protection:</b>   |
| Wear suitable gloves. Consult glove manufacturer's product information on material suitability and material thickness.  |
| <b>Eye protection:</b>  |
| Wear eye/face protection  |
| <b>Skin and body protection:</b>  |
| Wear suitable protective clothing   |
| <b>Respiratory protection:</b>  |
| In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. SDSs cannot provide detailed and complete respiratory protection guidelines. Selection of respiratory protection must be done by a qualified person who has assessed the work environment. |

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                           |                                |
|---------------------------|--------------------------------|
| Physical state            | : Liquid                       |
| Appearance                | : Aerosol.                     |
| Colour                    | : Beige                        |
| Odour                     | : Characteristic               |
| Odour threshold           | : No data available            |
| pH                        | : No data available            |
| Melting point             | : No data available            |
| Freezing point            | : No data available            |
| Boiling point             | : No data available            |
| Flash point               | : < -18 °C (-0.4°F)            |
| Flammability (solid, gas) | : Extremely flammable aerosol. |

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|  |                            |
|--|----------------------------|
| Vapour pressure                        | : No data available        |
| Relative vapour density at 20°C/ 68 °F | : No data available        |
| Relative density                       | : No data available        |
| Density                                | : 1.0025 g/cm <sup>3</sup> |
| Solubility                             | : No data available        |
| Partition coefficient n-octanol/water  | : No data available        |
| Auto-ignition temperature              | : No data available        |
| Decomposition temperature              | : No data available        |
| Viscosity, kinematic                   | : No data available        |
| Explosive limits                       | : No data available        |
| Particle characteristics               | : No data available        |

| Propane                   |                            |
|---------------------------|----------------------------|
| Boiling point             | -161.48 °C (at 1013 hPa)   |
| Flash point               | -104 °C                    |
| Auto-ignition temperature | 450 °C                     |
| Vapour pressure           | 600 – 39000 hPa (at 20 °C) |
| Particle characteristics  | No data available          |

| n-Butane                  |                       |
|---------------------------|-----------------------|
| Boiling point             | -0.5 °C (at 1013 hPa) |
| Flash point               | -60 °C                |
| Auto-ignition temperature | 287 °C                |
| Vapour pressure           | 2200 hPa (at 20 °C)   |
| Particle characteristics  | No data available     |

| Isobutane                 |                          |
|---------------------------|--------------------------|
| Boiling point             | -161.48 °C (at 1013 hPa) |
| Flash point               | -88.6 °C                 |
| Auto-ignition temperature | 460 °C                   |
| Vapour pressure           | 2100 hPa (at 20 °C)      |
| Particle characteristics  | No data available        |

| Acetone                   |                           |
|---------------------------|---------------------------|
| Boiling point             | 56.05 °C (at 1013.25 hPa) |
| Flash point               | -20 °C                    |
| Auto-ignition temperature | 465 °C                    |
| Vapour pressure           | 233 hPa (at 20 °C)        |
| Particle characteristics  | No data available         |

| Propylene glycol monomethyl ether acetate |   |
|---|---|
| Boiling point                             | 145.8 °C Atm. press.: 760 mm Hg Decomposition: 'no' |
| Flash point                               | 44.4 °C (open cup)                                  |

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| Propylene glycol monomethyl ether acetate |                    |
|---|--------------------|
| Auto-ignition temperature                 | 315 °C             |
| Vapour pressure                           | 4.9 hPa (at 20 °C) |
| Particle characteristics                  | No data available  |

| Xylenes (o-, m-, p- isomers) |                           |
|------------------------------|---------------------------|
| Boiling point                | 138.3 – 141.4 °C          |
| Auto-ignition temperature    | 465 – 525 °C              |
| Vapour pressure              | 8.8 – 11.9 hPa (at 25 °C) |
| Particle characteristics     | No data available         |

| Ethylbenzene              |   |
|---------------------------|---|
| Boiling point             | 136.1 °C Atm. press.: 1013,3 mBar Decomposition: 'no' |
| Flash point               | 23 °C Atm. press.: 1013 hPa                           |
| Auto-ignition temperature | 432 °C (at 1013 hPa)                                  |
| Vapour pressure           | 9.52 mbar Temp.: 20 °C                                |
| Particle characteristics  | No data available                                     |

| Naphtha, petroleum, hydrotreated heavy |  |
|--|--|
| Boiling point                          | -20 – 260 °C Atm. press.: 101,325 kPa  |
| Flash point                            | < -40 °C Atm. press.: 101,325 other:kPa (assumed). Pressure not stipulated in the citation |
| Auto-ignition temperature              | > 200 °C (at 1013 hPa)   |
| Vapour pressure                        | ≤ 240 kPa Temp.: 37,8 °C   |
| Particle characteristics               | No data available  |

| Aluminum                  |                          |
|---------------------------|--------------------------|
| Boiling point             | 2467 °C (at 101.325 hPa) |
| Auto-ignition temperature | 590 °C                   |
| Vapour pressure           | 0.00013 hPa (at 974 °C)  |
| Particle characteristics  | No data available        |

| Ethyl acetate             |                        |
|---------------------------|------------------------|
| Boiling point             | 77 °C (at 1 atm)       |
| Flash point               | -4 °C (closed cup)     |
| Auto-ignition temperature | 426.67 °C              |
| Vapour pressure           | 91.84 hPa (at 18.7 °C) |
| Particle characteristics  | No data available      |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

Gas group : Press. Gas (Liq.)

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Flame projection length : >75Cm <100cm  
FlashBack : Possible

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under normal conditions. Extremely flammable aerosol. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Extreme risk of explosion by shock, friction, fire or other sources of ignition.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Heat. Sparks, heat, open flame and other sources of ignition. Incompatible materials.

#### 10.5. Incompatible materials

oxidizing materials. Acids. Alkalis.

#### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Irritating vapours

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified.  
Acute toxicity (dermal) : Not classified.  
Acute toxicity (inhalation) : Not classified.

| Propane (74-98-6)                                    |  |
|--|--|
| LC50 inhalation rat                                  | > 800000 ppm (Exposure time: 15 min Source: ECHA_API)  |
| n-Butane (106-97-8)                                  |  |
| LC50 inhalation rat                                  | 658 g/m <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP)  |
| Isobutane (75-28-5)                                  |  |
| LC50 inhalation rat                                  | > 800000 ppm (Exposure time: 15 min Source: ECHA_API)  |
| Acetone (67-64-1)                                    |  |
| LD50 oral rat  | 5800 mg/kg (Source: NLM_CIP)   |
| LD50 dermal rabbit                                   | > 15700 mg/kg (Source: OECD_SIDS)  |
| LC50 inhalation rat                                  | 50100 mg/m <sup>3</sup> (Exposure time: 8 h Source: OECD_SIDS)   |
| Propylene glycol monomethyl ether acetate (108-65-6) |  |
| LD50 oral rat  | 8532 mg/kg (Source: NLM_CIP)   |
| LD50 dermal rat                                      | > 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

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| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |   |
|---|---|
| LD50 dermal rabbit  | > 5 g/kg (Source: NLM_CIP)  |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |   |
| LD50 oral rat   | 3500 mg/kg (Source: JAPAN_GHS)  |
| LD50 dermal rat   | 1100 mg/kg  |
| LD50 dermal   | 1700 mg/kg  |
| <b>Ethylbenzene (100-41-4)</b>                              |   |
| LD50 oral rat   | 3500 mg/kg (Source: JAPAN_GHS)  |
| LD50 dermal rabbit  | 15400 mg/kg (Source: JAPAN_GHS)   |
| LC50 inhalation rat   | 17.4 mg/l/4h  |
| <b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>  |   |
| LD50 oral rat   | > 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                  |
| LD50 dermal rabbit  | > 5000 mg/kg (Source: ECHA_API)   |
| LC50 inhalation rat   | > 8500 mg/m <sup>3</sup> (Exposure time: 4 h Source: EPA_HPVS)  |
| <b>Aluminum (7429-90-5)</b>                                 |   |
| LD50 oral rat   | > 15900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                 |
| LC50 inhalation rat   | > 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
| <b>Ethyl acetate (141-78-6)</b>                             |   |
| LD50 oral rat   | 5620 mg/kg (Source: NLM_CIP)  |
| LD50 oral   | 4934 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 401 (Acute Oral Toxicity)                 |
| LD50 dermal rabbit  | > 18000 mg/kg (Source: JAPAN_GHS)   |
| LC50 inhalation rat   | 4000 ppm/4h   |
| Skin corrosion/irritation                                   | : Not classified.   |
| Serious eye damage/irritation                               | : Causes serious eye irritation.  |
| Respiratory or skin sensitisation                           | : Not classified.   |
| Germ cell mutagenicity                                      | : Not classified.   |
| Carcinogenicity   | : Suspected of causing cancer.  |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |   |
| IARC group  | 3 - Not classifiable  |
| <b>Ethylbenzene (100-41-4)</b>                              |   |
| IARC group  | 2B - Possibly carcinogenic to humans  |
| National Toxicology Program (NTP) Status                    | Evidence of Carcinogenicity   |
| In OSHA Hazard Communication Carcinogen list                | Yes   |

Reproductive toxicity : Suspected of damaging the unborn child..

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| <b>Acetone (67-64-1)</b>                                    |  |
|---|--|
| LOAEL (animal/female, F0/P)                                 | 11298 mg/kg bodyweight Animal: mouse, Animal sex: female   |
| NOAEL (animal/male, F0/P)                                   | 900 mg/kg bodyweight Animal: rat, Animal sex: male   |
| <b>Aluminum (7429-90-5)</b>                                 |  |
| NOAEL (animal/male, F0/P)                                   | 1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test) |
| STOT-single exposure  | : May cause drowsiness or dizziness.   |
| <b>Acetone (67-64-1)</b>                                    |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| <b>Ethyl acetate (141-78-6)</b>                             |  |
| STOT-single exposure  | May cause drowsiness or dizziness.   |
| STOT-repeated exposure                                      | : May cause damage to organs (hearing organs) through prolonged or repeated exposure.  |
| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |  |
| NOAEL (oral, rat, 90 days)                                  | ≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)                 |
| NOAEL (dermal, rat/rabbit, 90 days)                         | > 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)   |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |  |
| LOAEL (oral, rat, 90 days)                                  | 150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)  |
| <b>Ethylbenzene (100-41-4)</b>                              |  |
| NOAEL (oral, rat, 90 days)                                  | 75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)   |
| STOT-repeated exposure                                      | May cause damage to organs (hearing organs) through prolonged or repeated exposure.  |
| <b>Aluminum (7429-90-5)</b>                                 |  |
| LOAEC (inhalation, rat, dust/mist/fume, 90 days)            | 0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)  |
| NOAEL (subchronic, oral, animal/male, 90 days)              | 1034 mg/kg bodyweight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)   |
| NOAEL (subchronic, oral, animal/female, 90 days)            | 1087 mg/kg bodyweight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)   |
| <b>Ethyl acetate (141-78-6)</b>                             |  |
| LOAEL (oral, rat, 90 days)                                  | 3600 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)   |

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| Ethyl acetate (141-78-6)                             |  |
|--|--|
| NOAEL (oral, rat, 90 days)                           | 900 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 795.2600 (Subchronic Oral Toxicity Test)  |
| Aspiration hazard                                    | : Not classified.  |
| Uni Zinc REZ 49                                      |  |
| Vaporizer  | Aerosol  |
| Viscosity, kinematic                                 | No data available  |
| Propane (74-98-6)                                    |  |
| Viscosity, kinematic                                 | No data available  |
| n-Butane (106-97-8)                                  |  |
| Viscosity, kinematic                                 | No data available  |
| Isobutane (75-28-5)                                  |  |
| Viscosity, kinematic                                 | No data available  |
| Acetone (67-64-1)                                    |  |
| Viscosity, kinematic                                 | No data available  |
| Propylene glycol monomethyl ether acetate (108-65-6) |  |
| Viscosity, kinematic                                 | No data available  |
| Xylenes (o-, m-, p- isomers) (1330-20-7)             |  |
| Viscosity, kinematic                                 | No data available  |
| Ethylbenzene (100-41-4)                              |  |
| Viscosity, kinematic                                 | 0.6 mm <sup>2</sup> /s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)' Remarks on result: 'other:'  |
| Naphtha, petroleum, hydrotreated heavy (64742-48-9)  |  |
| Viscosity, kinematic                                 | < 1 mm <sup>2</sup> /s Temp.: 'other:37.8°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'  |
| Aluminum (7429-90-5)                                 |  |
| Viscosity, kinematic                                 | No data available  |
| Ethyl acetate (141-78-6)                             |  |
| Viscosity, kinematic                                 | 0.5 mm <sup>2</sup> /s   |
| Symptoms/effects after inhalation                    | : May cause irritation to the respiratory tract. May cause drowsiness or dizziness.  |
| Symptoms/effects after skin contact                  | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause frostbite on contact with the liquefied gas.  |
| Symptoms/effects after eye contact                   | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause frostbite on contact with the liquefied gas. |

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|                                  |   |
|----------------------------------|---|
| Symptoms/effects after ingestion | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                  |
| Chronic symptoms                 | : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Suspect of damage the unborn child. |
| Other information                | : Likely routes of exposure: ingestion, inhalation, skin and eye.   |

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

|   |   |
|---|---|
| Ecology - general   | : May cause long-term adverse effects in the aquatic environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified.   |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified.   |

| Acetone (67-64-1)    |   |
|----------------------|---|
| LC50 - Fish [1]      | 4.74 – 6.33 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)             |
| EC50 - Crustacea [1] | 10294 – 17704 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                    |
| LC50 - Fish [2]      | 6210 – 8120 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
| EC50 - Crustacea [2] | 12600 – 12700 mg/l (Exposure time: 48 h - Species: Daphnia magna)                             |
| LOEC (chronic)       | > 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                            |
| NOEC (chronic)       | ≥ 79 mg/l Test organisms (species): Daphnia magna Duration: '21 d'                            |

| Propylene glycol monomethyl ether acetate (108-65-6) |   |
|--|---|
| LC50 - Fish [1]                                      | 161 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)   |
| EC50 - Crustacea [1]                                 | > 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)   |
| EC50 72h - Algae [1]                                 | > 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC (chronic)                                       | ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic fish                                    | 47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'  |

| Xylenes (o-, m-, p- isomers) (1330-20-7) |  |
|--|--|
| LC50 - Fish [1]                          | 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)                    |
| EC50 - Crustacea [1]                     | > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia  |
| LC50 - Fish [2]                          | 2.661 – 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)               |
| EC50 - Crustacea [2]                     | 0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)   |
| LOEC (chronic)                           | 3.16 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| NOEC chronic fish                        | > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' |

| Ethylbenzene (100-41-4) |   |
|-------------------------|---|
| LC50 - Fish [1]         | 5.1 mg/l Test organisms (species): Menidia menidia                                      |
| EC50 - Crustacea [1]    | 1.8 – 2.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)                           |
| LC50 - Fish [2]         | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: EPA) |
| EC50 72h - Algae [1]    | 4.9 mg/l Test organisms (species): Skeletonema costatum                                 |

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| <b>Ethylbenzene (100-41-4)</b>                              |   |
|---|---|
| EC50 72h - Algae [2]  | 2.6 – 11.3 mg/l (Species: Pseudokirchneriella subcapitata [static])   |
| EC50 96h - Algae [1]  | > 438 mg/l (Species: Pseudokirchneriella subcapitata)   |
| EC50 96h - Algae [2]  | 1.7 – 7.6 mg/l (Species: Pseudokirchneriella subcapitata [static])  |
| LOEC (chronic)  | 1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'   |
| NOEC (chronic)  | 0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'  |
| NOEC chronic crustacea                                      | 0.956 mg/l  |
| <b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b>  |   |
| LC50 - Fish [1]   | 2200 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)   |
| <b>Aluminum (7429-90-5)</b>                                 |   |
| EC50 72h - Algae [1]  | 1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2]  | 0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)  |
| <b>Ethyl acetate (141-78-6)</b>                             |   |
| LC50 - Fish [1]   | 220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)  |
| EC50 - Crustacea [1]  | 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])  |
| LC50 - Fish [2]   | 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: IUCLID)   |
| NOEC (chronic)  | 2.4 mg/l Test organisms (species): Daphnia magna Duration: '21 d'   |
| <b>12.2. Persistence and degradability</b>                  |   |
| <b>Uni Zinc REZ 49</b>                                      |   |
| Persistence and degradability                               | Not established.  |
| <b>Propane (74-98-6)</b>                                    |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>n-Butane (106-97-8)</b>                                  |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>Isobutane (75-28-5)</b>                                  |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>Acetone (67-64-1)</b>                                    |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |   |
| Persistence and degradability                               | Rapidly degradable  |
| <b>Ethylbenzene (100-41-4)</b>                              |   |
| Persistence and degradability                               | Rapidly degradable  |

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| <b>Naphtha, petroleum, hydrotreated heavy (64742-48-9)</b> |                    |
|--|--------------------|
| Persistence and degradability                              | Rapidly degradable |
| <b>Aluminum (7429-90-5)</b>                                |                    |
| Persistence and degradability                              | Rapidly degradable |
| <b>Ethyl acetate (141-78-6)</b>                            |                    |
| Persistence and degradability                              | Rapidly degradable |

### 12.3. Bioaccumulative potential

| <b>Uni Zinc REZ 49</b>                                      |                                 |
|---|---------------------------------|
| Bioaccumulative potential                                   | Not established.                |
| <b>Propane (74-98-6)</b>                                    |                                 |
| Partition coefficient n-octanol/water                       | 1.09 (at 20 °C (at pH 7))       |
| <b>n-Butane (106-97-8)</b>                                  |                                 |
| Partition coefficient n-octanol/water                       | 2.31 (at 20 °C (at pH 7))       |
| <b>Isobutane (75-28-5)</b>                                  |                                 |
| BCF - Fish [1]  | 1.57 – 1.97                     |
| Partition coefficient n-octanol/water                       | 1.09 – 2.8 (at 20 °C (at pH 7)) |
| <b>Acetone (67-64-1)</b>                                    |                                 |
| BCF - Fish [1]  | (0.69 dimensionless)            |
| Partition coefficient n-octanol/water                       | -0.24                           |
| <b>Propylene glycol monomethyl ether acetate (108-65-6)</b> |                                 |
| Partition coefficient n-octanol/water                       | 1.2 (at 20 °C (at pH 6.8))      |
| <b>Xylenes (o-, m-, p- isomers) (1330-20-7)</b>             |                                 |
| BCF - Fish [1]  | 0.6 – 15                        |
| Partition coefficient n-octanol/water                       | 2.77 – 3.15                     |
| <b>Ethylbenzene (100-41-4)</b>                              |                                 |
| BCF - Fish [1]  | (15 dimensionless)              |
| Partition coefficient n-octanol/water                       | 3.6 (at 20 °C (at pH 7.84))     |
| <b>Ethyl acetate (141-78-6)</b>                             |                                 |
| BCF - Fish [1]  | (30 dimensionless)              |
| Partition coefficient n-octanol/water                       | 0.73 (at 20 °C (at pH 7))       |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

|                              |                           |
|------------------------------|---------------------------|
| Ozone                        | : Not classified.         |
| Fluorinated greenhouse gases | : No                      |
| Other information            | : No other effects known. |

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### SECTION 13 Disposal considerations

- Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Additional information : Flammable vapours may accumulate in the container. Hazardous waste due to potential risk of explosion.

### SECTION 14 Transport information

In accordance with DOT / TDG

#### 14.1. UN Number

- UN-No. (DOT) : UN1950  
UN-No. (TDG) : UN1950

#### 14.2. UN Proper Shipping Name

- Proper Shipping Name (DOT) : Aerosols  
Proper Shipping Name (TDG) : AEROSOLS

#### 14.3. Transport hazard class(es)

##### DOT

- Transport hazard class(es) (DOT) : 2.1  
Hazard labels (DOT) : 2.1



##### TDG

- Transport hazard class(es) (TDG) : 2.1  
Hazard labels (TDG) : 2.1



#### 14.4. Packing group

- Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable

#### 14.5. Environmental hazards

- Other information : No supplementary information available.

#### 14.6. Transport in bulk

Not applicable

#### 14.7. Special precautions for user

- Special transport precautions : Do not handle until all safety precautions have been read and understood.

- DOT**  
UN-No. (DOT) : UN1950  
DOT Special Provisions (49 CFR 172.102) : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306

# 1K Zinc Weld Thru Primer

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

|   |   |
|---|---|
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)            | : 75 kg   |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)                | : 150 kg  |
| DOT Vessel Stowage Location   | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.   |
| DOT Vessel Stowage Other  | : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials   |
| <b>TDG</b>  |   |
| UN-No. (TDG)  | : UN1950  |
| TDG Special Provisions  | : 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL.<br>(2) Subsection (1) does not apply to self-defence spray. |
| Explosive Limit and Limited Quantity Index                                  | : 1 L   |
| Excepted quantities (TDG)   | : E0  |
| Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index | : 75 L  |
| Emergency Response Guide (ERG) Number                                       | : 126   |

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories except for:

### 15.2. International regulations

No additional information available

### 15.3. State regulations



**WARNING:**

This product can expose you to Ethylbenzene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## SECTION 16 Other Information

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2024 and the Hazardous Products Regulations (HPR) WHMIS 2022

|                   |  |
|-------------------|--|
| Revision date     | : 2025-10-31   |
| Issue date        | : 2023-06-02   |
| Other information | : None.  |
| Prepared by       | : Nexreg Compliance Inc.<br><a href="http://www.Nexreg.com">www.Nexreg.com</a> |



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|                               |
|-------------------------------|
| <b>Indication of changes:</b> |
| SDS update.                   |

SDS HazCom 2024 - WHMIS 2022 (Nexreg) 2025

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