









CHRISTY'S RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (FAST SET)

Flyleaf

Date of compilation: 2023-10-03

Bill of materials

| Name of substance | Identifier | Number of pieces | Classification acc. to GHS | Pictograms | Page |
|--|------------|------------------|--|---|---------|
| RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (FAST SET) PART A | | 1 | Skin Corr. 1A / H314 Eye Dam. 1 / H318 Skin Sens. 1 / H317 Carc. 2 / H351 STOT SE 3 / H335 Flam. Liq. 2 / H225 Met. Corr. 1 / H290 |     | 2 – 25 |
| RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (FAST SET) PART B | | 1 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225 |   | 26 – 46 |



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Version number: 2.0
Replaces version of: 2022-05-05 (1)

Revision: 2023-10-03

SECTION 1: Identification

1.1 Product identifier

Trade name

RED HOT VINYL 2-PART CONSTRUCTION ADHESIVE (FAST SET) PART A

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

Relevant identified uses

adhesive
contact adhesive

Uses advised against

Do not use for squirting or spraying. Do not use for products which come into direct contact with the skin.

1.3 Details of the supplier of the safety data sheet

T Christy Enterprises, Inc.
655 East Ball Road
Anaheim CA 92805
United States

Telephone: 714-507-3300
Website: tchristy.com

1.4 Emergency telephone number

Emergency information service

24 Hours - CHEMTEL: (800) 255-3924; International (813) 248-0585

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Hazard class | Category |
|---|----------|
| skin corrosion/irritation | 1A |
| serious eye damage/eye irritation | 1 |
| skin sensitization | 1 |
| carcinogenicity | 2 |
| specific target organ toxicity - single exposure (respiratory tract irritation) | 3 |
| flammable liquid | 2 |
| substance or mixture corrosive to metals | 1 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. The product is combustible and can be ignited by potential ignition sources.



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2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS05, GHS07,
GHS08



- Hazard statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapor. |
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |

- Precautionary statements

| | |
|----------------|--|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P201 | Obtain special instructions before use. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P234 | Keep only in original container. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dusts or mists. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P301+P330+P331 | If swallowed: Rinse mouth. Do NOT induce vomiting. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |
| P310 | Immediately call a poison center/doctor. |
| P321 | Specific treatment (see on this label). |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P390 | Absorb spillage to prevent material damage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P406 | Store in corrosive resistant container with a resistant inner liner. |
| P501 | Dispose of contents/container to industrial combustion plant. |

- Hazardous ingredients for labelling methyl methacrylate, methacrylic acid, cumene, p-toluene sulfonyl chloride



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2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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

SECTION 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 |
|-----------------------------|----------------------|-----------|---|
| methyl methacrylate | CAS No 80-62-6 | 25 – < 50 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225 |
| Alumina Trihydrate | CAS No 21645-51-2 | 25 – < 50 | Acute Tox. 4 / H332 |
| methacrylic acid | CAS No 79-41-4 | 5 – < 10 | Acute Tox. 4 / H302 Acute Tox. 3 / H311 Skin Corr. 1A / H314 STOT SE 3 / H335 Flam. Liq. 4 / H227 |
| p-toluene sulfonyl chloride | CAS No 98-59-9 | 1 – < 5 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 Skin Sens. 1A / H317 Met. Corr. 1 / H290 |
| cumene hydroperoxide | CAS No 80-15-9 | < 1 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Acute Tox. 3 / H331 Skin Corr. 1B / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 STOT RE 2 / H373 Flam. Liq. 4 / H227 Org. Perox. E / H242 |
| cumene | CAS No 98-82-8 | < 1 | Carc. 2 / H351 STOT SE 3 / H335 Asp. Tox. 1 / H304 Flam. Liq. 3 / H226 |

For full text of abbreviations: see SECTION 16.



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SECTION 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

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Substance or mixture corrosive to metals.

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂)

Flash point

50 °F at 1,013 hPa

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.



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SECTION 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

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.

SECTION 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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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.



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7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- 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.

SECTION 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/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---------|------------------|------------|------------|-----------|-------------|------------|--------------|-----------------|-------------------|----------------|------------------|
| US | titanium dioxide | 13463-67-7 | PEL | | 15 | | | | | i, dust | 29 CFR 1910.1000 |
| US | titanium dioxide | 13463-67-7 | REL | | | | | | | lowest, appx-A | NIOSH REL |
| US | titanium dioxide | 13463-67-7 | TLV® | | 2.5 | | | | | r, fine | ACGIH® 2023 |
| US | titanium dioxide | 13463-67-7 | TLV® | | 0.2 | | | | | r, nano | ACGIH® 2023 |
| US | ethyl acrylate | 140-88-5 | PEL (CA) | 5 | 20 | 25 | 100 | | | | Cal/ OSHA PEL |
| US | ethyl acrylate | 140-88-5 | TLV® | 5 | | 15 | | | | | ACGIH® 2023 |
| US | ethyl acrylate | 140-88-5 | PEL | 25 | 100 | | | | | | 29 CFR 1910.1000 |



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Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Ceiling-C [ppm] | Ceiling-C [mg/m³] | Notation | Source |
|---------|--|------------|------------|------------|-------------|------------|--------------|-----------------|-------------------|----------------|------------------|
| US | ethyl acrylate | 140-88-5 | REL | | | | | | | lowest, appx-A | NIOSH REL |
| US | aluminium, insoluble compounds | 21645-51-2 | TLV® | | 1 | | | | | r | ACGIH® 2023 |
| US | methacrylic acid | 79-41-4 | PEL (CA) | 20 | 70 | | | | | | Cal/ OSHA PEL |
| US | methacrylic acid | 79-41-4 | REL | 20 (10 h) | 70 (10 h) | | | | | | NIOSH REL |
| US | methacrylic acid | 79-41-4 | TLV® | 20 | | | | | | | ACGIH® 2023 |
| US | methyl methacrylate | 80-62-6 | REL | 100 (10 h) | 410 (10 h) | | | | | | NIOSH REL |
| US | methyl methacrylate | 80-62-6 | TLV® | 50 | | 100 | | | | | ACGIH® 2023 |
| US | methyl methacrylate | 80-62-6 | PEL | 100 | 410 | | | | | | 29 CFR 1910.1000 |
| US | methyl methacrylate (methyl 2-methylprop-2-enoate) | 80-62-6 | PEL (CA) | 50 | 205 | 100 | 410 | | | | Cal/ OSHA PEL |
| US | cumene | 98-82-8 | REL | 50 (10 h) | 245 (10 h) | | | | | | NIOSH REL |
| US | cumene | 98-82-8 | TLV® | 5 | | | | | | | ACGIH® 2023 |
| US | cumene | 98-82-8 | PEL | 50 | 245 | | | | | | 29 CFR 1910.1000 |
| US | cumene (isopropylbenzene) | 98-82-8 | PEL (CA) | 50 | 245 | | | | | | Cal/ OSHA PEL |

Notation

| | |
|-----------|--|
| appx-A | NIOSH Potential Occupational Carcinogen (Appendix A) |
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| dust | as dust |
| fine | fineparticle |
| i | inhalable fraction |
| lowest | exposure by all routes should be carefully controlled to levels as low as possible |
| nano | nanoparticle |
| 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) |



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Relevant DNELs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|-----------------------------|------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| methyl methacrylate | 80-62-6 | DNEL | 348.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methyl methacrylate | 80-62-6 | DNEL | 208 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methyl methacrylate | 80-62-6 | DNEL | 416 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| methyl methacrylate | 80-62-6 | DNEL | 13.67 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Alumina Trihydrate | 21645-51-2 | DNEL | 10.76 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Alumina Trihydrate | 21645-51-2 | DNEL | 10.76 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methacrylic acid | 79-41-4 | DNEL | 39.3 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methacrylic acid | 79-41-4 | DNEL | 44 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methacrylic acid | 79-41-4 | DNEL | 4.25 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| p-toluene sulfonyl chloride | 98-59-9 | DNEL | 3.5 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| p-toluene sulfonyl chloride | 98-59-9 | DNEL | 0.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| cumene hydroperoxide | 80-15-9 | DNEL | 6 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| cumene | 98-82-8 | DNEL | 100 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| cumene | 98-82-8 | DNEL | 250 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| cumene | 98-82-8 | DNEL | 15.4 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |

Relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|---------------------|---------|----------|-----------------|-------------------|------------------------------|------------------------------|
| methyl methacrylate | 80-62-6 | PNEC | 0.94 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 0.094 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 10.2 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |



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Relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|-----------------------------|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| methyl methacrylate | 80-62-6 | PNEC | 0.102 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 1.48 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 0.82 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 0.082 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 3.09 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 0.309 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methacrylic acid | 79-41-4 | PNEC | 0.137 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| p-toluene sulfonyl chloride | 98-59-9 | PNEC | 0.1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| p-toluene sulfonyl chloride | 98-59-9 | PNEC | 0.01 mg/l | aquatic organisms | marine water | short-term (single instance) |
| p-toluene sulfonyl chloride | 98-59-9 | PNEC | 17.3 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0.003 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0.35 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0.023 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0.002 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| cumene hydroperoxide | 80-15-9 | PNEC | 0.003 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.035 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.004 mg/l | aquatic organisms | marine water | short-term (single instance) |



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Relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| cumene | 98-82-8 | PNEC | 200 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 3.22 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.322 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| cumene | 98-82-8 | PNEC | 0.624 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

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance



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| | |
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| Physical state | liquid (paste) |
| Color | white |
| Particle | not relevant (liquid) |
| Odor | sharp |

Other safety parameters

| | |
|---|-----------------------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 100.4 °C at 1,013 hPa |
| Flash point | 10 °C at 1,013 hPa |
| Flash point | 10 °C at 1,013 hPa |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 30 hPa at 16.67 °C |
| Density | 1.164 g/cm ³ at 73 °F |
| Vapor density | this information is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | 400 °C |

Viscosity

| | |
|----------------------|-------------------------------|
| - Dynamic viscosity | 550,000 – 750,000 cP at 73 °F |
| Explosive properties | none |
| Oxidizing properties | none |



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9.2 Other information

Temperature class (USA, acc. to NEC 500)

T2 (maximum permissible surface temperature on the equipment:
300°C)

SECTION 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. Substance or mixture corrosive to metals.

If heated:

Risk of ignition, Exothermic polymerization

If exposed to light:

Exothermic polymerization.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers, Reducing agents

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.

SECTION 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 OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed or if inhaled.



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Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|----------------------|------------|-----------------------|-------------|
| Alumina Trihydrate | 21645-51-2 | inhalation: vapor | 11 mg/l/4h |
| Alumina Trihydrate | 21645-51-2 | inhalation: dust/mist | 3.8 mg/l/4h |
| methacrylic acid | 79-41-4 | oral | 1,320 mg/kg |
| methacrylic acid | 79-41-4 | dermal | ≥500 mg/kg |
| cumene hydroperoxide | 80-15-9 | oral | 500 mg/kg |
| cumene hydroperoxide | 80-15-9 | dermal | 1,100 mg/kg |
| cumene hydroperoxide | 80-15-9 | inhalation: vapor | 3 mg/l/4h |

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Number |
|---------------------|---------|----------------|--------|
| methyl methacrylate | 80-62-6 | 3 | |
| cumene | 98-82-8 | 2B | |

Legend

2B Possibly carcinogenic to humans
3 Not classifiable as to carcinogenicity in humans

National Toxicology Program (United States): Report on Carcinogens

| Name of substance | CAS No | Classification | Number |
|-------------------|---------|---|----------------------------|
| cumene | 98-82-8 | Reasonably anticipated to be a human carcinogen | 13th Report on Carcinogens |



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Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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 in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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 DOT) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.



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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.

SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| DOT | UN 2924 |
| IMDG-Code | UN 2924 |
| ICAO-TI | UN 2924 |

14.2 UN proper shipping name

| | |
|--|---------------------------------------|
| DOT | Flammable liquid, corrosive, n.o.s. |
| IMDG-Code | FLAMMABLE LIQUID, CORROSIVE, N.O.S. |
| ICAO-TI | Flammable liquid, corrosive, n.o.s. |
| Technical name (hazardous ingredients) | methyl methacrylate, methacrylic acid |

14.3 Transport hazard class(es)

| | |
|-----------|-------|
| DOT | 3 (8) |
| IMDG-Code | 3 (8) |
| ICAO-TI | 3 (8) |

14.4 Packing group

| | |
|-----------|----|
| DOT | II |
| IMDG-Code | II |
| ICAO-TI | II |

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

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

| | |
|--|---|
| Particulars in the shipper's declaration | UN2924, Flammable liquid, corrosive, n.o.s., (contains: methyl methacrylate, methacrylic acid), 3 (8), II |
| Reportable quantity (RQ) | 1,587 lbs (720.6 kg) (methyl methacrylate) (cumene hydroperoxide) |
| Danger label(s) | 3+8 |



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| | |
|-------------------------|---------------------|
| Special provisions (SP) | IB2, T11, TP2, TP27 |
| ERG No | 132 |

International Maritime Dangerous Goods Code (IMDG) - Additional information

| | |
|------------------|-----|
| Marine pollutant | - |
| Danger label(s) | 3+8 |



| | |
|--------------------------|----------|
| Special provisions (SP) | 274 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |
| EmS | F-E, S-C |
| Stowage category | B |

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

| | |
|-----------------|-----|
| Danger label(s) | 3+8 |
|-----------------|-----|



| | |
|--------------------------|-------|
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 0,5 L |

SECTION 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 as "ACTIVE".

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

- Specific Toxic Chemical Listings (EPCRA Section 313)



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Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No | Remarks | Effective date |
|----------------------|---------|---------|----------------|
| methyl methacrylate | 80-62-6 | | 1987-01-01 |
| cumene hydroperoxide | 80-15-9 | | 1987-01-01 |
| cumene | 98-82-8 | | 1987-01-01 |

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) |
|----------------------|---------|---------|----------------|----------------------|
| methyl methacrylate | 80-62-6 | | 1 3 4 | 1000 (454) |
| cumene hydroperoxide | 80-15-9 | | 4 | 10 (4,54) |
| cumene | 98-82-8 | | 3 4 | 5000 (2270) |

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) 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)

Right to Know Hazardous Substance List

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

| Name of substance | CAS No | Functionality | Authoritative Lists |
|---------------------|---------|---------------|---|
| methyl methacrylate | 80-62-6 | | CA TACs IRIS Neurotoxicants |
| cumene | 98-82-8 | | CA NLS CA TACs CDC 4th National Exposure Report IARC Carcinogens - 2B NTP 13th RoC - reasonable OEHH RELs Prop 65 |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|----------------------|---------|----------|-----------------|---------------------|------------------------------------|
| methyl methacrylate | 80-62-6 | | | | 1.0 % |
| cumene hydroperoxide | 80-15-9 | | | | 1.0 % |
| cumene | 98-82-8 | | | | 0.1 % |



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- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|-----------------------------|---------|------------|---------|
| methyl methacrylate | 80-62-6 | A, O | |
| methacrylic acid | 79-41-4 | A | |
| p-toluene sulfonyl chloride | 98-59-9 | I | |

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
I American Industrial Hygiene Association (AIHA), "Workplace Environmental Exposure Level Guides" (1992), available from AIHA
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

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|----------------------|---------|---------|-----------------|
| methyl methacrylate | 80-62-6 | | F3 R2 |
| methacrylic acid | 79-41-4 | | CO F2 R2 |
| cumene hydroperoxide | 80-15-9 | | F2 R4 |
| cumene | 98-82-8 | | F3 R1 |

Legend

CO Corrosive
F2 Flammable - Second Degree
F3 Flammable - Third Degree
R1 Reactive - First Degree
R2 Reactive - Second Degree
R4 Reactive - Fourth Degree

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

| Name acc. to inventory | CAS No | Classification |
|---|---------|----------------|
| 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER | 80-62-6 | E |
| 2-PROPENOIC ACID, 2-METHYL- | 79-41-4 | |
| HYDROPEROXIDE, 1-METHYL-1-PHENYLETHYL | 80-15-9 | E |
| BENZENE, (1-METHYLETHYL)- | 98-82-8 | E |

Legend

E Environmental hazard



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- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|----------------------|---------|------------|
| methyl methacrylate | 80-62-6 | T, F |
| methacrylic acid | 79-41-4 | T, F |
| cumene hydroperoxide | 80-15-9 | F |
| cumene | 98-82-8 | 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 |
|------------------------|------------|--|----------------------|
| titanium dioxide | 13463-67-7 | airborne, unbound particles of respirable size | cancer |
| cumene | 98-82-8 | | cancer |
| ethyl acrylate | 140-88-5 | | cancer |

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 | 3 | major injury likely unless prompt action is taken and medical treatment is given |
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

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



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| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Health | 3 | material that, under emergency conditions, can cause serious or permanent injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| AU | AIIC | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| EU | REACH Reg. | not 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 |
| US | TSCA | all ingredients are listed (ACTIVE) |

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 |
| 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.



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SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-rel- evant |
|---------|--|---|----------------------|
| 2.3 | | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$. | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 9.1 | Flash point: 50 °F at 1,013 hPa | Flash point: 10 °C at 1,013 hPa | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | 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 in a concentration of $\geq 0.1\%$. | yes |
| 12.6 | Endocrine disrupting properties: Information on this property is not available. | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 15.1 | Toxic Substance Control Act (TSCA): all ingredients are listed | Toxic Substance Control Act (TSCA): all ingredients are listed as "ACTIVE". | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |
| ACGIH® 2023 | From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| Carc. | Carcinogenicity |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LHS | Lower hazard substance |
| Met. Corr. | Substance or mixture corrosive to metals |
| NFPA® | National Fire Protection Association (United States) |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| Org. Perox. | Organic peroxide |



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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|---|
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H227 | Combustible liquid. |
| H242 | Heating may cause a fire. |
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |



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| Code | Text |
|------|--|
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

Disclaimer

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



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SECTION 1: Identification

1.1 Product identifier

Trade name

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

Relevant identified uses

adhesive
contact adhesive

1.3 Details of the supplier of the safety data sheet

T Christy Enterprises, Inc.
655 East Ball Road
Anaheim CA 92805
United States

Telephone: 714-507-3300
Website: tchristy.com

1.4 Emergency telephone number

Emergency information service

24 Hours - CHEMTEL: (800) 255-3924; International
(813) 248-0585

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Hazard class | Category |
|---|----------|
| skin corrosion/irritation | 2 |
| skin sensitization | 1 |
| specific target organ toxicity - single exposure (respiratory tract irritation) | 3 |
| flammable liquid | 2 |

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word danger

- Pictograms

GHS02, GHS07





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- Hazard statements

| | |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H335 | May cause respiratory irritation. |

- Precautionary statements

| | |
|----------------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing must not be allowed out of the workplace. |
| P280 | Wear protective gloves/eye protection/face protection. |
| P302+P352 | If on skin: Wash with plenty of water. |
| P303+P361+P353 | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | If inhaled: Remove person to fresh air and keep comfortable for breathing. |
| P312 | Call a poison center/doctor if you feel unwell. |
| P321 | Specific treatment (see on this label). |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to industrial combustion plant. |

- Hazardous ingredients for labelling

methyl methacrylate, 2,6-di-tert-butyl- α -dimethyl-amino-p-cresol, proprietary additive

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

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



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SECTION 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 |
|---|-----------------------|-----------|---|
| methyl methacrylate | CAS No 80-62-6 | 25 – < 50 | Skin Irrit. 2 / H315 Skin Sens. 1 / H317 STOT SE 3 / H335 Flam. Liq. 2 / H225 |
| Alumina Trihydrate | CAS No 21645-51-2 | 25 – < 50 | Acute Tox. 4 / H332 |
| PDHP | CAS No 34562-31-7 | 1 – < 5 | Acute Tox. 4 / H302 Acute Tox. 4 / H312 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 |
| proprietary additive | CAS No proprietary | < 1 | Acute Tox. 3 / H331 Skin Sens. 1B / H317 |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | CAS No 88-27-7 | < 1 | Acute Tox. 4 / H302 Eye Irrit. 2 / H319 Skin Sens. 1B / H317 |

For full text of abbreviations: see SECTION 16.

SECTION 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

Symptoms and effects are not known to date.



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4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

Flash point

50 °F at 1,013 hPa

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.

SECTION 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. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.



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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.

SECTION 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. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools.

- Specific notes/details

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

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

- Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

- Ventilation requirements

Use local and general ventilation. Ground/bond container and receiving equipment.

- 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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SECTION 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 |
|---------|--|------------|------------|------------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------------|
| US | aluminium, insoluble compounds | 21645-51-2 | TLV® | | 1 | | | | | r | ACGIH® 2023 |
| US | methyl methacrylate | 80-62-6 | REL | 100 (10 h) | 410 (10 h) | | | | | | NIOSH REL |
| US | methyl methacrylate | 80-62-6 | TLV® | 50 | | 100 | | | | | ACGIH® 2023 |
| US | methyl methacrylate | 80-62-6 | PEL | 100 | 410 | | | | | | 29 CFR 1910.1000 |
| US | methyl methacrylate (methyl 2-methylprop-2-enoate) | 80-62-6 | PEL (CA) | 50 | 205 | 100 | 410 | | | | Cal/ OSHA PEL |

Notation

Ceiling-C

r

STEL

TWA

ceiling value is a limit value above which exposure should not occur

respirable fraction

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)

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 of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|----------------------|-------------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| methyl methacrylate | 80-62-6 | DNEL | 348.4 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| methyl methacrylate | 80-62-6 | DNEL | 208 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| methyl methacrylate | 80-62-6 | DNEL | 416 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| methyl methacrylate | 80-62-6 | DNEL | 13.67 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Alumina Trihydrate | 21645-51-2 | DNEL | 10.76 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Alumina Trihydrate | 21645-51-2 | DNEL | 10.76 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| proprietary additive | proprietary | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| proprietary additive | proprietary | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | acute - systemic effects |



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Relevant DNELs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|-------------|----------|-------------------------------|------------------------------------|-------------------|----------------------------|
| proprietary additive | proprietary | DNEL | 1 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| proprietary additive | proprietary | DNEL | 2.5 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | DNEL | 2.11 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | DNEL | 0.3 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | DNEL | 19.75 μ g/cm ² | human, dermal | worker (industry) | chronic - local effects |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | DNEL | 19.75 μ g/cm ² | human, dermal | worker (industry) | acute - local effects |

Relevant PNECs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
|----------------------|-------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| methyl methacrylate | 80-62-6 | PNEC | 0.94 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 0.094 mg/l | aquatic organisms | marine water | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 10 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 10.2 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 0.102 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| methyl methacrylate | 80-62-6 | PNEC | 1.48 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| proprietary additive | proprietary | PNEC | 0 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| proprietary additive | proprietary | PNEC | 0 mg/l | aquatic organisms | marine water | short-term (single instance) |
| proprietary additive | proprietary | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| proprietary additive | proprietary | PNEC | 0.136 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| proprietary additive | proprietary | PNEC | 0.014 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |



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| Relevant PNECs of components of the mixture | | | | | | |
|---|-------------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance | CAS No | Endpoint | Threshold level | Organism | Environmental compartment | Exposure time |
| proprietary additive | proprietary | PNEC | 100 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 0.3 μ g/l | aquatic organisms | freshwater | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 0.03 μ g/l | aquatic organisms | marine water | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 1 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 0.072 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 0.007 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | PNEC | 0.008 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

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

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



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-----------------------|
| Physical state | liquid (paste) |
| Color | white |
| Particle | not relevant (liquid) |
| Odor | sharp |

Other safety parameters

| | |
|---|-----------------------------------|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 100.4 °C at 1,013 hPa |
| Flash point | 10 °C at 1,013 hPa |
| Flash point | 10 °C at 1,013 hPa |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant, (fluid) |
| Vapor pressure | 30 hPa at 16.67 °C |
| Density | 1.116 g/cm ³ at 73 °F |
| Vapor density | this information is not available |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-octanol/water (log KOW) | this information is not available |
| Auto-ignition temperature | 283 °C |

Viscosity

| | |
|---------------------|-------------------------------|
| - Dynamic viscosity | 350,000 – 550,000 cP at 73 °F |
|---------------------|-------------------------------|



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| | |
|----------------------|------|
| Explosive properties | none |
| Oxidizing properties | none |

9.2 Other information

| | |
|--|---|
| Temperature class (USA, acc. to NEC 500) | T2A (maximum permissible surface temperature on the equipment: 280°C) |
|--|---|

SECTION 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.

If heated:

Risk of ignition, Exothermic polymerization

If exposed to light:

Exothermic polymerization.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. UV-radiation/sunlight.

Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

10.5 Incompatible materials

Oxidizers, Reducing agents

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.

SECTION 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).



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Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|---|-------------|-----------------------|---------------|
| Alumina Trihydrate | 21645-51-2 | inhalation: vapor | 11 mg/l/4h |
| Alumina Trihydrate | 21645-51-2 | inhalation: dust/mist | 3.8 mg/l/4h |
| PDHP | 34562-31-7 | oral | >500 mg/kg |
| PDHP | 34562-31-7 | dermal | >1,000 mg/kg |
| proprietary additive | proprietary | inhalation: dust/mist | >0.59 mg/l/4h |
| 2,6-di-tert-butyl- α -dimethylamino-p-cresol | 88-27-7 | oral | 515 mg/kg |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans

| Name of substance | CAS No | Classification | Number |
|---------------------|---------|----------------|--------|
| methyl methacrylate | 80-62-6 | 3 | |

Legend

3 Not classifiable as to carcinogenicity in humans

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).



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Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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 in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment-relevant information

Solvent reclamation/regeneration.

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 DOT) 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.



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SECTION 14: Transport information

14.1 UN number

| | |
|-----------|---------|
| DOT | UN 1133 |
| IMDG-Code | UN 1133 |
| ICAO-TI | UN 1133 |

14.2 UN proper shipping name

| | |
|-----------|-----------|
| DOT | Adhesives |
| IMDG-Code | ADHESIVES |
| ICAO-TI | Adhesives |

14.3 Transport hazard class(es)

| | |
|-----------|---|
| DOT | 3 |
| IMDG-Code | 3 |
| ICAO-TI | 3 |

14.4 Packing group

| | |
|-----------|----|
| DOT | II |
| IMDG-Code | II |
| ICAO-TI | II |

14.5 Environmental hazards

| | |
|---|--------------------------------------|
| | hazardous to the aquatic environment |
| Environmentally hazardous substance (aquatic environment) | PDHP |

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

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

| | |
|--|--|
| Particulars in the shipper's declaration | UN1133, Adhesives, 3, II, environmentally hazardous |
| Reportable quantity (RQ) | 2,466 lbs (1,120 kg) (methyl methacrylate) (1,3-butadiene) |
| Danger label(s) | 3, fish and tree |



| | |
|-------------------------|--|
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Special provisions (SP) | 149, B52, IB2, T4, TP1, TP8 |






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| | |
|---|--|
| ERG No | 128 |
| International Maritime Dangerous Goods Code (IMDG) - Additional information | |
| Marine pollutant | yes (hazardous to the aquatic environment) |
| Danger label(s) | 3, fish and tree |
|   | |
| Special provisions (SP) | - |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 5 L |
| EmS | F-E, S-D |
| Stowage category | B |
| International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information | |
| Environmental hazards | yes (hazardous to the aquatic environment) |
| Danger label(s) | 3 |
|  | |
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E2 |
| Limited quantities (LQ) | 1 L |

SECTION 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 as "ACTIVE".

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

| Name of substance | CAS No | Remarks | Effective date |
|---------------------|---------|---------|----------------|
| methyl methacrylate | 80-62-6 | | 1987-01-01 |



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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) |
|---------------------|---------|---------|----------------|----------------------|
| methyl methacrylate | 80-62-6 | | 1 3 4 | 1000 (454) |

Legend

- 1 "1" indicates that the statutory source is section 311(b)(2) 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)

Right to Know Hazardous Substance List

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

| Name of substance | CAS No | Functionality | Authoritative Lists |
|---------------------|---------|---------------|--------------------------------|
| methyl methacrylate | 80-62-6 | | CA TACs IRIS Neurotoxicants |

- Toxic or Hazardous Substance List (MA-TURA)

| Name of substance | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Threshold | De Minimis Concentration Threshold |
|---------------------|---------|----------|-----------------|---------------------|------------------------------------|
| methyl methacrylate | 80-62-6 | | | | 1.0 % |

- Hazardous Substances List (MN-ERTK)

| Name of substance | CAS No | References | Remarks |
|---------------------|---------|------------|---------|
| methyl methacrylate | 80-62-6 | A, O | |

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
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

- Hazardous Substance List (NJ-RTK)

| Name of substance | CAS No | Remarks | Classifications |
|---------------------|---------|---------|-----------------|
| methyl methacrylate | 80-62-6 | | F3 R2 |

Legend

- F3 Flammable - Third Degree
R2 Reactive - Second Degree



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

| Name acc. to inventory | CAS No | Classification |
|---|---------|----------------|
| 2-PROPENOIC ACID, 2-METHYL-, METHYL ESTER | 80-62-6 | E |

Legend

E Environmental hazard

- Hazardous Substance List (RI-RTK)

| Name of substance | CAS No | References |
|---------------------|---------|------------|
| methyl methacrylate | 80-62-6 | 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

none of the ingredients are listed or included in the product above Safe Harbor Limits

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 | 3 | material that can be ignited under almost all ambient temperature conditions |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

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

| Category | Degree of hazard | Description |
|----------------|------------------|--|
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Health | 2 | material that, under emergency conditions, can cause temporary incapacitation or residual injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |



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National inventories

| Country | Inventory | Status |
|---------|------------|-------------------------------------|
| AU | AIIC | all ingredients are listed |
| CA | DSL | not all ingredients are listed |
| CA | NDSL | not all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| EU | REACH Reg. | not 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 |
| US | TSCA | all ingredients are listed (ACTIVE) |

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 |
| NDSL | Non-domestic Substances List (NDSL) |
| NZIoC | New Zealand Inventory of Chemicals |
| 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.



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SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-rel- evant |
|---------|--|---|----------------------|
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 2.3 | | Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a con- centration of $\geq 0.1\%$. | yes |
| 2.3 | | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 8.1 | | Occupational exposure limit values (Workplace Ex- posure Limits): change in the listing (table) | yes |
| 9.1 | Flash point: 50 °F at 1,013 hPa | Flash point: 10 °C at 1,013 hPa | yes |
| 12.5 | Results of PBT and vPvB assessment: Data are not available. | Results of PBT and vPvB assessment: According to the results of its assessment, this sub- stance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$. | yes |
| 12.6 | Endocrine disrupting properties: Information on this property is not available. | Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$. | yes |
| 15.1 | Toxic Substance Control Act (TSCA): all ingredients are listed | Toxic Substance Control Act (TSCA): all ingredients are listed as "ACTIVE". | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | | California Environmental Protection Agency (Cal/ EPA): Proposition 65 - Safe Drinking Water and Tox- ic Enforcement Act of 1987: none of the ingredients are listed or included in the product above Safe Harbor Limits | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------------|--|
| 29 CFR 1910.1000 | 29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Sub- stances (permissible exposure limits) |
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation |
| ACGIH® | American Conference of Governmental Industrial Hygienists |



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| Abbr. | Descriptions of used abbreviations |
|--------------|--|
| ACGIH® 2023 | From ACGIH®, 2023 TLVs® and BEIs® Book. Copyright 2023. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement |
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| Cal/OSHA PEL | California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs) |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |
| DOT | Department of Transportation (USA) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ERG No | Emergency Response Guidebook - Number |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| HHS | Higher hazard substance |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| ICAO-TI | Technical instructions for the safe transport of dangerous goods by air |
| IMDG | International Maritime Dangerous Goods Code |
| IMDG-Code | International Maritime Dangerous Goods Code |
| LHS | Lower hazard substance |
| NFPA® | National Fire Protection Association (United States) |
| NIOSH REL | National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs) |
| NLP | No-Longer Polymer |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| OSHA | Occupational Safety and Health Administration (United States) |
| PBT | Persistent, Bioaccumulative and Toxic |
| PEL | Permissible exposure limit |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| STEL | Short-term exposure limit |
| STOT SE | Specific target organ toxicity - single exposure |
| TLV® | Threshold Limit Values |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). 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).

List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text |
|------|--------------------------------------|
| H225 | Highly flammable liquid and vapor. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |



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| Code | Text |
|------|-----------------------------------|
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |

Disclaimer

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