

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : V1D
Product code : 10188, 50138, 1001007, 1099000, 1001020, 1052810, 1052880, 1052890, 1052900, 1090012, 1020025, 5004020, 5004030, 5001030, 5001030CN, T16000, T16001, T56000, T56001, 10180, 10188-51, 50129, 50150, S50153, 50138-51, T16003, T56003, 50154, 50155

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Tyre sealant
Restrictions on use : No additional information available

1.3. Supplier

Supplier

ITW Performance Polymers WuJiang, Co, Ltd
No. 4680, Pangjin Rd, Economic Development Zone
WuJiang, SuZhou, JiangSu - China
T 86-512-63488388
info@itwppfchina.com

1.4. Emergency telephone number

Emergency number : 1-800-255-3924
ChemTel's local International number: +1-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | | |
|---|------|--|
| Acute toxicity (oral) Category 4 | H302 | Harmful if swallowed |
| Skin sensitization, Category 1 | H317 | May cause an allergic skin reaction |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 | May cause damage to organs (kidneys) through prolonged or repeated exposure (oral) |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning
Hazard statements (GHS US) : H302 - Harmful if swallowed
H317 - May cause an allergic skin reaction
H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (oral)
Precautionary statements (GHS US) : P102 - Keep out of reach of children.
P261 - Avoid breathing mist, spray, vapors.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves, eye protection.
P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell.

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P302+P352 - If on skin: Wash with plenty of soap and water.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|------------------------------|--------------------|-----------------|---|
| Ethylene glycol | CAS-No.: 107-21-1 | ≥ 40 – < 60 | Acute Tox. 4 (Oral), H302 STOT RE 2, H373 |
| Natural rubber latex | CAS-No.: 9006-04-6 | ≥ 25 – < 40 | Skin Sens. 1B, H317 |
| Ammonia, aqueous solution | CAS-No.: 1336-21-6 | ≥ 0.25 – < 0.5 | Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 |
| Potassium hydroxide | CAS-No.: 1310-58-3 | ≥ 0.25 – < 0.5 | Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 |
| Methenamine | CAS-No.: 100-97-0 | ≥ 0.02 – < 0.05 | Flam. Sol. 2, H228 Skin Sens. 1, H317 |
| 2-methylisothiazol-3(2H)-one | CAS-No.: 2682-20-4 | < 0.0015 | Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

: Call a poison center/doctor/physician if you feel unwell. Never give anything by mouth to an unconscious person.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

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| | |
|---------------------------------------|--|
| First-aid measures after skin contact | : Take off contaminated clothing. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : Rinse mouth out with water. Never give anything by mouth to an unconscious person. Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. Rednesses. Itching. Skin rash/inflammation. |
| Symptoms/effects after eye contact | : Lacrimation. Redness. Blurred vision. |
| Symptoms/effects after ingestion | : Ingestion may cause nausea and vomiting. Abdominal pain. |
| Chronic symptoms | : May cause damage to organs through prolonged or repeated exposure. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Carbon dioxide. Dry powder. Water spray. Use extinguishing agent suitable for surrounding fire. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

| | |
|--|--|
| Fire hazard | : In case of fire and/or explosion do not breathe fumes. Burning produces stinking and toxic fumes. Heating will cause a rise in pressure with a risk of bursting. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Move containers from fire area if it can be done without personal risk. Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance. Use water spray or fog for cooling exposed containers. Evacuate the danger area. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Avoid all contact with skin, eyes, or clothing. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Do not touch or walk on the spilled product. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, fume. Evacuate unnecessary personnel. No action shall be taken without appropriate training or involving any personal risk. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. |

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6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Stop leak, if possible without risk. Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Caution : this product can cause the floor to be slippery. Move containers from spill area. Prevent entry to sewers and public waters. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean contaminated surfaces with an excess of water.
- Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques.

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Provide adequate ventilation to minimize dust and/or vapor concentrations. Avoid contact with skin and eyes. Avoid breathing fume, vapors, mist. Avoid release to the environment. Keep in original containers. Empty containers retain product residue and can be hazardous.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Store in a dry place. Keep cool. Keep away from food, drink and animal feedingstuffs. Store away from other materials. Refer to Section 10 on Incompatible Materials. Store in accordance with local, regional, national or international regulation.
- Incompatible products : Oxidizing agent. Strong acids. Strong bases.
- Incompatible materials : Direct sunlight.
- Storage area : Store in a well-ventilated place. Store away from heat.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|--|---|
| V1D | |
| No additional information available | |
| Natural rubber latex (9006-04-6) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Natural rubber latex, as inhalable allergenic proteins |
| ACGIH OEL TWA | 0.0001 mg/m ³ (I - Inhalable particulate matter) |
| Remark (ACGIH) | TLV® Basis: Resp sens. Notations: Skin; DSEN; RSEN |

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| Natural rubber latex (9006-04-6) | |
|--|---|
| Regulatory reference | ACGIH 2021 |
| Ethylene glycol (107-21-1) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Ethylene glycol |
| ACGIH OEL TWA [ppm] | 25 ppm (V - Vapor fraction) |
| ACGIH OEL STEL | 10 mg/m ³ (I - Inhalable particulate matter, H - Aerosol only) |
| ACGIH OEL STEL [ppm] | 50 ppm (V - Vapor fraction) |
| Remark (ACGIH) | TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |
| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
| No additional information available | |
| Ammonia, aqueous solution (1336-21-6) | |
| No additional information available | |
| Potassium hydroxide (1310-58-3) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Potassium hydroxide |
| ACGIH OEL Ceiling | 2 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: URT, eye, & skin irr |
| Regulatory reference | ACGIH 2021 |
| Methenamine (100-97-0) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Hexamethylenetetramine |
| ACGIH OEL TWA | 1 mg/m ³ (IFV - Inhalable fraction and vapor) |
| Remark (ACGIH) | TLV® Basis: Dermal sens. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen) |
| Regulatory reference | ACGIH 2021 |

Exposure limit values of other components

| Methanol (67-56-1) | |
|--|--|
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Methanol |
| ACGIH OEL TWA [ppm] | 200 ppm |
| ACGIH OEL STEL [ppm] | 250 ppm |
| Remark (ACGIH) | TLV® Basis: Headache; eye dam; dizziness; nausea. Notations: Skin; BEI |
| Regulatory reference | ACGIH 2021 |
| USA - ACGIH - Biological Exposure Indices | |
| Local name | Methanol |
| BEI (BLV) | 15 mg/l Urine |

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| Methanol (67-56-1) | |
|---|--|
| Remark | Determinant: Methanol |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Methyl alcohol |
| OSHA PEL (TWA) [1] | 260 mg/m ³ |
| OSHA PEL (TWA) [2] | 200 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| Monitoring methods | |
| Monitoring methods | Refer to all applicable national, international and local regulations or provisions. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation. Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure.
- Environmental exposure controls : Avoid release to the environment. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

| |
|---|
| Hand protection: |
| Chemical resistant gloves (according to NIOSH standard). nitrile rubber gloves. Thickness. ≥ 0.4 mm. Breakthrough time : 2 hours |
| Eye protection: |
| Use splash goggles when eye contact due to splashing is possible. Chemical goggles or safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment. Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment. All respirators must conform to specifications for efficiency and performance indicated by OSHA Standard 29 CFR 1910.134. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Color : whitish
- Odor : Ammonia
- Odor threshold : No data available
- pH : 9 (20 °C)
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 100 °C

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| | |
|---|----------------------------|
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : 0.1 hPa (20 °C) |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : 1 |
| Solubility | : insoluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 750 – 1200 mPa·s (20 °C) |
| Explosion limits | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating.

10.5. Incompatible materials

Strong bases. Strong acids. Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------------|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| V1D | |
|----------------------------|-----------------------|
| ATE US (oral) | 500 mg/kg body weight |
| Ethylene glycol (107-21-1) | |
| LD50 dermal rat | > 3500 mg/kg |

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| Ethylene glycol (107-21-1) | |
|--|--|
| ATE US (oral) | 500 mg/kg body weight |
| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
| ATE US (oral) | 100 mg/kg body weight |
| ATE US (dermal) | 300 mg/kg body weight |
| ATE US (gases) | 100 ppmV/4h |
| ATE US (vapors) | 0.5 mg/l/4h |
| ATE US (dust, mist) | 0.05 mg/l/4h |
| Potassium hydroxide (1310-58-3) | |
| ATE US (oral) | 500 mg/kg body weight |
| Skin corrosion/irritation | : Not classified pH: 9 (20 °C) |
| Serious eye damage/irritation | : Not classified pH: 9 (20 °C) |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| Potassium hydroxide (1310-58-3) | |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | : May cause damage to organs (kidneys) through prolonged or repeated exposure (oral). |
| Ethylene glycol (107-21-1) | |
| LOAEL (oral,rat,90 days) | 1000 mg/kg bodyweight/day |
| NOAEL (oral,rat,90 days) | 150 mg/kg bodyweight/day kidneys |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Symptoms/effects after inhalation | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : May cause an allergic skin reaction. Rednesses. Itching. Skin rash/inflammation. |
| Symptoms/effects after eye contact | : Lacrimation. Redness. Blurred vision. |
| Symptoms/effects after ingestion | : Ingestion may cause nausea and vomiting. Abdominal pain. |
| Chronic symptoms | : May cause damage to organs through prolonged or repeated exposure. |
| Other information | : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. |

SECTION 12: Ecological information

12.1. Toxicity

| Ethylene glycol (107-21-1) | |
|----------------------------|--------------------------------------|
| LC50 - Fish [1] | 72860 mg/l Pimephales promelas |
| EC50 - Crustacea [1] | > 100 mg/l Daphnia magna |
| NOEC (chronic) | ≥ 1000 mg/l Americamysis bahia, 23 d |

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12.2. Persistence and degradability

| V1D | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |

12.3. Bioaccumulative potential

| V1D | |
|---------------------------|---|
| Bioaccumulative potential | No data available concerning bioaccumulation. |

12.4. Mobility in soil

| V1D | |
|----------------|--------------------------------------|
| Ecology - soil | No additional information available. |

12.5. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the packaging without first carrying out the necessary cleaning.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

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14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US 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 except for:

| | | |
|----------------------|-------------------|--------------|
| Natural rubber latex | CAS-No. 9006-04-6 | ≥ 25 – < 40% |
|----------------------|-------------------|--------------|

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

| | | |
|------------------------------|-------------------|-----------|
| 2-methylisothiazol-3(2H)-one | CAS-No. 2682-20-4 | < 0.0015% |
|------------------------------|-------------------|-----------|

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|-----------------|------------------|--------------|
| Ethylene glycol | CAS-No. 107-21-1 | ≥ 40 – < 60% |
|-----------------|------------------|--------------|

| | | |
|---------------------------|-------------------|-----------------|
| Ammonia, aqueous solution | CAS-No. 1336-21-6 | ≥ 0.25 – < 0.5% |
|---------------------------|-------------------|-----------------|

Ethylene glycol (107-21-1)

Listed on EPA Hazardous Air Pollutant (HAPS)

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

2-methylisothiazol-3(2H)-one (2682-20-4)

| | |
|--------------------------|--|
| EPA TSCA Regulatory Flag | PMN - PMN - indicates a commenced PMN substance. SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule. |
|--------------------------|--|

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| Ammonia, aqueous solution (1336-21-6) | |
|---------------------------------------|---------|
| CERCLA RQ | 1000 lb |

| Potassium hydroxide (1310-58-3) | |
|---------------------------------|---------|
| CERCLA RQ | 1000 lb |

15.2. International regulations

CANADA

| Natural rubber latex (9006-04-6) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |

| Ethylene glycol (107-21-1) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |

| 2-methylisothiazol-3(2H)-one (2682-20-4) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |

| Ammonia, aqueous solution (1336-21-6) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |

| Potassium hydroxide (1310-58-3) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |

| Methenamine (100-97-0) | |
|---|--|
| Listed on the Canadian DSL (Domestic Substances List) | |


EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

 **WARNING:** This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

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Revision date : 02/08/2022
Data sources : Supplier's safety documents.
Training advice : Training staff on good practice.

| Full text of H-phrases | |
|------------------------|----------------------------|
| H228 | Flammable solid |
| H290 | May be corrosive to metals |

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| Full text of H-phrases | |
|-------------------------------|---|
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H311 | Toxic in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H330 | Fatal if inhaled |
| H335 | May cause respiratory irritation |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |

| Indication of changes: |
|-------------------------------|
| SDS section 1.1 names. |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : Glow sticks
Product code : S50152, S50153, 50154, 50155, 20497, 20498

1.2. Recommended use and restrictions on use

Use of the substance/mixture : glues
Restrictions on use : No additional information available

1.3. Supplier

Supplier

ITW Global Tire Repair Europe GmbH
Carl-Benz Str. 10, 88696 Owingen, Germany
Tel 0049 7551-9200-100
Email: Comments@itwgr.com

1.4. Emergency telephone number

Emergency number : 1-800-255-3924
ChemTel's local International number: +1-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|--------------------|--------------------|-------------|-----------------------|
| Dimethyl phthalate | CAS-No.: 131-11-3 | ≥ 40 – < 90 | Not classified |

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| Name | Product identifier | % | GHS US classification |
|---|---------------------|-------------|---|
| Bis(2,4,5-trichloro-6-carbopentoxyphenyl) oxalate | CAS-No.: 30431-54-0 | ≥ 15 – < 20 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 |
| Hydrogen peroxide | CAS-No.: 7722-84-1 | ≥ 2.5 – < 5 | Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 |
| 2-ethyl-9,10-bis(phenylethynyl)anthracene | CAS-No.: 53158-83-1 | ≥ 1 – < 2.5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : Call a poison center/doctor/physician if you feel unwell. Never give anything by mouth to an unconscious person. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. |
| First-aid measures after skin contact | : Take off contaminated clothing. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical attention if symptoms occur. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if you feel unwell. |
| First-aid measures after ingestion | : Rinse mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|---|
| Symptoms/effects after inhalation | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use. |
| Symptoms/effects after eye contact | : Direct contact with the eyes is likely slightly irritating. |
| Symptoms/effects after ingestion | : Ingestion may cause nausea and vomiting. Abdominal pain. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing media | : Carbon dioxide. Foam. Dry powder. Water spray. Use extinguishing agent suitable for surrounding fire. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

| | |
|--|--|
| Fire hazard | : In case of fire and/or explosion do not breathe fumes. Burning produces stinking and toxic fumes. Heating will cause a rise in pressure with a risk of bursting. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. Carbon dioxide. Carbon monoxide. |

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5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Move containers from fire area if it can be done without personal risk. Exercise caution when fighting any chemical fire. Fight fire with normal precautions from a reasonable distance. Use water spray or fog for cooling exposed containers. Evacuate the danger area. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Avoid all contact with skin, eyes, or clothing. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Ventilate spillage area. Do not touch or walk on the spilled product. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors, fume. Evacuate unnecessary personnel. No action shall be taken without appropriate training or involving any personal risk. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| For containment | : Stop leak, if possible without risk. Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Move containers from spill area. Prevent entry to sewers and public waters. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean contaminated surfaces with an excess of water. |
| Other information | : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. |

6.4. Reference to other sections

For further information refer to section 13. For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing fume, vapors, mist. Avoid release to the environment. Keep in original containers. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Always wash hands after handling the product. Wash contaminated clothing before reuse. |

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7.2. Conditions for safe storage, including any incompatibilities

| | |
|------------------------|---|
| Storage conditions | : Store in a well-ventilated place. Store in a dry place. Keep cool. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation. |
| Incompatible materials | : Direct sunlight. Heat sources. |
| Storage area | : Store in a well-ventilated place. |

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| | |
|---|--|
| Glow sticks | |
| No additional information available | |
| Dimethyl phthalate (131-11-3) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Dimethyl phthalate |
| ACGIH OEL TWA | 5 mg/m ³ |
| Remark (ACGIH) | TLV® Basis: Eye & URT irr |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Dimethylphthalate |
| OSHA PEL (TWA) [1] | 5 mg/m ³ |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| Bis(2,4,5-trichloro-6-carbopentoxyphenyl) oxalate (30431-54-0) | |
| No additional information available | |
| Hydrogen peroxide (7722-84-1) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Hydrogen peroxide |
| ACGIH OEL TWA [ppm] | 1 ppm |
| Remark (ACGIH) | TLV® Basis: Eye, URT, & skin irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans) |
| Regulatory reference | ACGIH 2021 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Hydrogen peroxide |
| OSHA PEL (TWA) [1] | 1.4 mg/m ³ |
| OSHA PEL (TWA) [2] | 1 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| 2-ethyl-9,10-bis(phenylethynyl)anthracene (53158-83-1) | |
| No additional information available | |

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| Monitoring methods | |
|--------------------|--|
| Monitoring methods | Refer to all applicable national, international and local regulations or provisions. Workplace atmospheres. Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy. Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. |

8.2. Appropriate engineering controls

| | |
|----------------------------------|---|
| Appropriate engineering controls | : Provide local exhaust or general room ventilation. Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. |
| Environmental exposure controls | : Avoid release to the environment. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the CEN standards and in discussion with the supplier of the protective equipment.

| |
|---|
| Hand protection: |
| Chemical resistant gloves (according to NIOSH standard). Please follow the instructions related to the permeability and the penetration time provided by the manufacturer |
| Eye protection: |
| Use splash goggles when eye contact due to splashing is possible. Chemical goggles or safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---------------------|
| Physical state | : Liquid |
| Color | : Green |
| Odor | : odorless |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : No data available |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |

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| | |
|----------------------|---------------------|
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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 |

| Dimethyl phthalate (131-11-3) | |
|--|------------------------|
| LD50 oral rat | 6800 mg/kg |
| LD50 dermal rabbit | > 23800 mg/kg |
| Bis(2,4,5-trichloro-6-carbopentoxyphenyl) oxalate (30431-54-0) | |
| ATE US (oral) | 500 mg/kg body weight |
| ATE US (dermal) | 1100 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |
| Hydrogen peroxide (7722-84-1) | |
| LD50 oral rat | 376 mg/kg |

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| Hydrogen peroxide (7722-84-1) | |
|-------------------------------|------------------------|
| LD50 dermal rat | 3000 mg/kg |
| ATE US (oral) | 376 mg/kg body weight |
| ATE US (dermal) | 3000 mg/kg body weight |
| ATE US (gases) | 4500 ppmV/4h |
| ATE US (vapors) | 11 mg/l/4h |
| ATE US (dust, mist) | 1.5 mg/l/4h |

| | |
|-------------------------------------|--|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : Not applicable |
| Symptoms/effects after inhalation | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Not expected to present a significant skin hazard under anticipated conditions of normal use. |
| Symptoms/effects after eye contact | : Direct contact with the eyes is likely slightly irritating. |
| Symptoms/effects after ingestion | : Ingestion may cause nausea and vomiting. Abdominal pain. |
| Other information | : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. |

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

| Glow sticks | |
|-------------------------------|---|
| Persistence and degradability | Biodegradability in water: no data available. |

12.3. Bioaccumulative potential

| Glow sticks | |
|---------------------------|---|
| Bioaccumulative potential | No data available concerning bioaccumulation. |

12.4. Mobility in soil

| Glow sticks | |
|----------------|--------------------------------------|
| Ecology - soil | No additional information available. |

12.5. Other adverse effects

Other adverse effects : No other effects known.

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SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|--|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the packaging without first carrying out the necessary cleaning. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

In accordance with Department of Transport / Transportation of Dangerous Goods / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

| | |
|-----------------------------|------------------|
| Proper Shipping Name (DOT) | : Not applicable |
| Proper Shipping Name (TDG) | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

TDG

Transport hazard class(es) (TDG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

| | |
|----------------------|------------------|
| Packing group (DOT) | : Not applicable |
| Packing group (TDG) | : Not applicable |
| Packing group (IMDG) | : Not applicable |
| Packing group (IATA) | : Not applicable |

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

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IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US 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 except for:

| | | |
|---|--------------------|--------------|
| Hydrogen peroxide | CAS-No. 7722-84-1 | ≥ 2.5 – < 5% |
| 2-ethyl-9,10-bis(phenylethynyl)anthracene | CAS-No. 53158-83-1 | ≥ 1 – < 2.5% |

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

| | | |
|--------------------|------------------|--------------|
| Dimethyl phthalate | CAS-No. 131-11-3 | ≥ 40 – < 90% |
|--------------------|------------------|--------------|

Dimethyl phthalate (131-11-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

| | |
|-----------|---------|
| CERCLA RQ | 5000 lb |
|-----------|---------|

15.2. International regulations

CANADA

Dimethyl phthalate (131-11-3)

Listed on the Canadian DSL (Domestic Substances List)

Bis(2,4,5-trichloro-6-carbopentoxyphenyl) oxalate (30431-54-0)

Listed on the Canadian NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| | |
|-----------------|------------------------------------|
| Revision date | : 02/08/2022 |
| Data sources | : Supplier's safety documents. |
| Training advice | : Training staff on good practice. |

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| Full text of H-phrases | |
|-------------------------------|--|
| H271 | May cause fire or explosion; strong oxidizer |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H314 | Causes severe skin burns and eye damage |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |

| Indication of changes: |
|-------------------------------|
| Sections 1-16. |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.