

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.
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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

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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

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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
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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.