

Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)
Issue date: 12/20/2021 Revision date: 7/21/2025 Supersedes: 6/10/2022 Version: 1.2

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

: VT-280 Vitalseal-Small Joint Sealant Product name

UN-No. (ADR) : 1133

Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Sealants

1.4. Supplier's details

Manufacturer

Vital Technical Sdn. Bhd.

No.93, Jalan Industri 3/3 Rawang Integrated Industrial Park,

48000 Rawang, Selangor, Malaysia. T +603 60942088 - F +603 60992930

1.5. Emergency phone number

No additional information available

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Flammable liquids, Category 2	H225	On basis of test data
Skin corrosion/irritation, Category 2	H315	Calculation method
Skin sensitisation, Category 1	H317	Calculation method
Reproductive toxicity, Category 2	H361	Calculation method
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	Calculation method
Specific target organ toxicity – Repeated exposure, Category 2	H373	Calculation method
Aspiration hazard Not classified		Calculation method
Hazardous to the aquatic environment – Acute Hazard Not classified		Calculation method
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412	Calculation method

Full text of H-statements: see section 16

Adverse physicochemical, human health and

environmental effects

: Highly flammable liquid and vapour, Suspected of damaging fertility or the unborn child, May cause damage to organs through prolonged or repeated exposure, May cause drowsiness or dizziness, Causes skin irritation, May cause an allergic skin reaction, Harmful to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)





Signal word (GHS UN)

: Danger

toluene; P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN; bis-[4-(2,3-Hazardous ingredients

epoxipropoxi)phenyl]propane; SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC

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Hazard statements (GHS UN) : H225 - Highly flammable liquid and vapour

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility or the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS UN) : P203 - Obtain, read and follow all safety instructions before use.

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 - Keep container tightly closed.

P240 - Ground and bond container and receiving equipment.

P241 - Use explosion-proof equipment.

P242 - Use non-sparking tools.

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
toluene	CAS-No.: 108-88-3	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC	CAS-No.: 64742-95-6	1 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN	CAS-No.: 25085-50-1	1 – 10	Skin Sens. 1, H317
bis-[4-(2,3-epoxipropoxi)phenyl]propane	CAS-No.: 1675-54-3	1 – 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. If skin

irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

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

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Water spray.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

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".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or

public waters.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Use

only outdoors or in a well-ventilated area. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

toluene (108-88-3)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Toluene	
IOELV TWA (mg/m³)	192 mg/m³	
IOELV STEL (mg/m³)	384 mg/m³	
IOELV STEL (ppm)	100 ppm	
Notes Skin		
Regulatory reference COMMISSION DIRECTIVE 2006/15/EC		
USA - ACGIH - Occupational Exposure Limits		
Local name	Toluene	
ACGIH TWA (ppm)	20 ppm	
Remark (ACGIH)	TLV® Basis: CNS, visual & hearing impair; female repro system eff; pregnancy loss. Notations: OTO; A4 (Not classifiable as a Human Carcinogen); BEI	
Regulatory reference	ACGIH 2021	
USA - ACGIH - Biological Exposure Indices		
Local name	TOLUENE	
Biological Exposure Indices (BEI) 0.3 mg/g creatinine Parameter: o-Cresol (with hydrolysis) - Medium: urine - Sampling End of shift - Notations: B 0.03 mg/l Parameter: Toluene - Medium: urine - Sampling time: End of shift 0.02 mg/l Parameter: Toluene - Medium: blood - Sampling time: Prior to last shift of workweek		
Regulatory reference	ACGIH 2021	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : [In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

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SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

Colour : Various colours.

Odour : Characteristic.

Odour threshold : Not available

Melting point : Not applicable

Freezing point : Not available

Boiling point : > 56 °C

Flammability : Highly flammable liquid and vapour.

Lower explosion limit : Not available : Not available Upper explosion limit · < 23 °C Flash point : Not available Auto-ignition temperature Not available Decomposition temperature Not available рΗ pH solution : Not available Viscosity, kinematic (calculated value) (40 °C) $: > 40 \text{ mm}^2/\text{s}$ Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available : Not available Vapour pressure at 50°C Density : Not available : ≈ 1.18 Relative density Relative vapour density at 20°C : Not available Solubility : Not available : 150000 - 200000 cP Viscosity, dynamic Particle size : Not applicable

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

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. Highly flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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.

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SECTION 11: Toxicological information

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

toluene (108-88-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure May cause drowsiness or dizziness.

toluene (108-88-3)

LC50 Inhalation - Rat

STOT-single exposure May cause drowsiness or dizziness.

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (64742-95-6)

STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation.

> 20 mg/l/4h

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

toluene (108-88-3)

STOT-repeated exposure May cause damage to organs (central nervous system) through prolonged or repeated exposure (Inhalation).

Aspiration hazard Not classified.

VT-280 Vitalseal-Small Joint Sealant

> 40 mm²/s Viscosity, kinematic

SECTION 12: Ecological information

12.1. Toxicity

: Harmful to aquatic life with long lasting effects. Ecology - general

Hazardous to the aquatic environment, short-term : Not classified. (acute)

Classification procedure (Hazardous to the aquatic : Calculation method

environment, short-term (acute))

Hazardous to the aquatic environment, long-term : Harmful to aquatic life with long lasting effects.

(chronic)

Classification procedure (Hazardous to the aquatic : Calculation method

environment, long-term (chronic))

12.2. Persistence and degradability

VT-280 Vitalseal-Small Joint Sealant Persistence and degradability Not rapidly degradable toluene (108-88-3) Persistence and degradability Not rapidly degradable

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P-TERT-BUTYLPHENOL-FORMALDEHYDE RESIN (25085-50-1)		
	Persistence and degradability	Not rapidly degradable

bis-[4-(2,3-epoxipropoxi)phenyl]propane (1675-54-3)

Persistence and degradability Not rapidly degradable

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (64742-95-6)

Persistence and degradability Not rapidly degradable

12.3. Bioaccumulative potential

VT-280 Vitalseal-Small Joint Sealant

Bioaccumulative potential No additional information available

12.4. Mobility in soil

VT-280 Vitalseal-Small Joint Sealant

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA		
14.1. UN number				
1133	1133	1133		
14.2. UN Proper Shipping Name				
ADHESIVES (containing flammable liquid)	ADHESIVES (containing flammable liquid)	Adhesives (containing flammable liquid)		
Transport document description				
UN 1133 ADHESIVES (containing flammable liquid), 3, II	UN 1133 ADHESIVES (containing flammable liquid), 3, II	UN 1133 Adhesives (containing flammable liquid), 3, II		
14.3. Transport hazard class(es)				
3	3	3		
3	3	3		
14.4. Packing group				
II	II	II		

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UN RTDG	IMDG	IATA	
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	
No supplementary information available			

14.6. Special precautions for user

UN RTDG

Limited quantities (UN RTDG) : 5L Excepted quantities (UN RTDG) : E2 Packing instruction (UN RTDG) : P001, IBC02 Special packing provisions (UN RTDG) : PP1 Portable tank and bulk container special : T4

instructions (UN RTDG)

Portable tank and bulk container special provisions : TP1, TP8

(UN RTDG)

IMDG

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E2 Packing instructions (IMDG) : P001 : PP1 Special packing provisions (IMDG) IBC packing instructions (IMDG) : IBC02 : T4 Tank instructions (IMDG) : TP1, TP8 Tank special provisions (IMDG)

: F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS EmS-No. (Fire)

: S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS EmS-No. (Spillage)

Stowage category (IMDG)

Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility

with water depends upon their composition.

IATA

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity (IATA) : 1L PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L Special provisions (IATA) : A3 ERG code (IATA) : 3L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms : CAS-No. - Chemical Abstract Service number

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ATE - Acute Toxicity Estimate

EC50 - Median effective concentration

EC-No. - European Community number

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration

OEL - Occupational Exposure Limit

SDS - Safety Data Sheet

Full text of H-statements:		
Aquatic Acute Not classified	Hazardous to the aquatic environment – Acute Hazard Not classified	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Asp. Tox. 1	Aspiration hazard, Category 1	
Asp. Tox. Not classified	Aspiration hazard Not classified	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Repr. 2	Reproductive toxicity, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H304	May be fatal if swallowed and enters airways	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H336	May cause drowsiness or dizziness	
H361	Suspected of damaging fertility or the unborn child	
H373	May cause damage to organs through prolonged or repeated exposure	
H411	Toxic to aquatic life with long lasting effects	
H412	Harmful to aquatic life with long lasting effects	

Safety Data Sheet (SDS), UN

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.