

## Safety Data Sheet

according to the United Nations GHS (Rev. 10, 2023)
Issue date: 8/17/2021 Revision date: 3/18/2022 Supersedes: 8/17/2021 Version: 1.1

## **SECTION 1: Identification**

### 1.1. GHS Product identifier

Product form : Mixture

Product name : VT-228 Fire Retardant Sealant

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.

## 1.5. Emergency phone number

T +603 60942088 - F +603 60992930

No additional information available

### **SECTION 2: Hazard identification**

## 2.1. Classification of the substance or mixture

#### **Classification according to the United Nations GHS**

Serious eye damage/eye irritation, Category 2 H319

Full text of H-statements: see section 16

Adverse physicochemical, human health and : Cau

environmental effects

: Causes serious eye irritation.

### 2.2. GHS Label elements, including precautionary statements

#### Labelling according to the United Nations GHS

Hazard pictograms (GHS UN)



Signal word (GHS UN) : Warning

Hazard statements (GHS UN) : H319 - Causes serious eye irritation

Precautionary statements (GHS UN) : P264+P265 - Wash hands hands, forearms and face thoroughly after handling. Do not

touch eves.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

Calculation method

contact lenses, if present and easy to do. Continue rinsing. P337+P317 - If eye irritation persists: Get medical help.

### 2.3. Other hazards which do not result in classification

No additional information available

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### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier		Classification according to the United Nations GHS
OXIRANE, 2-METHYL-, POLYMER WITH OXRIRANE, MONI(2-PROPYLHEPTYL)ETHER	CAS-No.: 166736-08-9	1 – 10	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of H-statements: see section 16

## **SECTION 4: First-aid measures**

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

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

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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

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

Symptoms/effects after eye contact : Eye irritation.

## 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 : Water spray. Dry powder. Foam. Carbon dioxide.

## 5.2. Specific hazards arising from the chemical

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. 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.

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

Methods for cleaning up : Take up liquid spill into absorbent material.

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 : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear

personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

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

Storage conditions : Store in a well-ventilated place. Keep cool.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

No additional information available

### 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)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s)







## 8.4. Exposure limit values for the other components

No additional information available

## **SECTION 9: Physical and chemical properties**

## 9.1. Basic physical and chemical properties

Physical state : Liquid Appearance : Paste Colour : White.

Odour : Barely perceptible odour.

Odour threshold Not available Melting point Not applicable Freezing point Not available Boiling point Not available Flammability Non flammable. Lower explosion limit Not available Upper explosion limit : Not available Flash point : Not available

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Auto-ignition temperature : Not applicable Decomposition temperature : Not available No data available рΗ pH solution Not available Viscosity, kinematic (calculated value) (40 °C) Not available Partition coefficient n-octanol/water (Log Kow) Not available Vapour pressure Not available Vapour pressure at 50°C Not available Density : Not available · ≈ 1 47 Relative density

Relative vapour density at 20°C : No data available Solubility : Not available Particle size : Not applicable

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

VOC content : ≈ 3.96 g/l

## **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.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 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
Skin corrosion/irritation : Not classified

pH: No data available

Serious eye damage/irritation : Causes serious eye irritation.

pH: No data available

Respiratory or skin sensitisation : 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

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## **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

### 12.2. Persistence and degradability

### **VT-228 Fire Retardant Sealant**

Persistence and degradability Not rapidly degradable

### OXIRANE, 2-METHYL-, POLYMER WITH OXRIRANE, MONI(2-PROPYLHEPTYL)ETHER (166736-08-9)

Persistence and degradability Not rapidly degradable

### 12.3. Bioaccumulative potential

### **VT-228 Fire Retardant Sealant**

Bioaccumulative potential No additional information available

### 12.4. Mobility in soil

### **VT-228 Fire Retardant 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.

### **SECTION 14: Transport information**

In accordance with UN RTDG / IMDG / IATA

UN RTDG	IMDG	IATA			
14.1. UN number					
Not applicable	Not regulated	Not regulated			
14.2. UN Proper Shipping Name					
Not applicable	Not regulated	Not regulated			
14.3. Transport hazard class(es)					
Not applicable	Not regulated	Not regulated			
14.4. Packing group					
Not applicable	Not regulated	Not regulated			
14.5. Environmental hazards					
Not applicable	Not regulated	Not regulated			

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UN RTDG	IMDG	IATA
No supplementary information available		

### 14.6. Special precautions for user

#### **UN RTDG**

Not applicable

#### **IMDG**

Not regulated

#### **IATA**

Not regulated

## 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

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:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	

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.