

### Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 6/6/2023 Version: 1.0

### **SECTION 1: Identification**

#### 1.1. GHS Product identifier

Product form : Mixture

: VT-151P Vital Red Pro RTV Product name

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

Use of the substance/mixture : Sealants 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**

Serious eye damage/eye irritation, Category 2 H319 Calculation method Skin sensitisation, Category 1 H317 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

: May cause an allergic skin reaction, Causes serious eye irritation, 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)

: BUTAN-2-ONE O,O',O"-(VINYLSILYLIDYNE)TRIOXIME; BUTAN-2-ONE O,O',O"-Hazardous ingredients

(METHYLSILYLIDYNE)TRIOXIME; N-(3-

(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE

Hazard statements (GHS UN) : H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements (GHS UN) : P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read carefully and follow all instructions.

P261 - Avoid breathing dust, fume, gas, mist, spray, vapours.

P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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#### 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
BUTAN-2-ONE O,O',O"- (METHYLSILYLIDYNE)TRIOXIME	CAS-No.: 22984-54-9	1 – 10	Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 2, H373
BUTAN-2-ONE O,O',O"- (VINYLSILYLIDYNE)TRIOXIME	CAS-No.: 2224-33-1	1 – 10	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373
N-(3- (TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE	CAS-No.: 1760-24-3	0.1 – 1	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335

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. Take off contaminated clothing. 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. 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 skin contact : May cause an allergic skin reaction.

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.

#### 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.

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#### **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. Avoid breathing

dust/fume/gas/mist/vapours/spray.

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 : Mechanically recover the product.

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. Avoid

breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash

contaminated clothing before reuse. 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

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

#### 9.1. Basic physical and chemical properties

Physical state : Solid Colour : red.

Odour : Characteristic odour.

Odour threshold Not available Melting point No data available Freezing point Not applicable Boiling point Not available Flammability Non flammable. Lower explosion limit Not applicable Not applicable Upper explosion limit : Not applicable Flash point : No data available Auto-ignition temperature Not available Decomposition temperature рΗ : No data available pH solution : Not available Viscosity, kinematic (calculated value) (40 °C) : Not applicable Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available : Not available Vapour pressure at 50°C Density : Not available Relative density : ≈ 1.35

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

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

Explosive limits : Not applicable

### **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

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Acute toxicity (inhalation) : Not classified

BUTAN-2-ONE O,O',O"-(VINYLSILYLIDYNE)TRIOXIME (2224-33-1)	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rat	≈ 2009 mg/kg

# BUTAN-2-ONE O,O',O"-(METHYLSILYLIDYNE)TRIOXIME (22984-54-9) LD50 oral rat ≈ 2453 mg/kg

LD50 dermal rat > 2000 mg/kg

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

LD50 oral rat 2295 mg/kg LD50 dermal 2000 mg/kg

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 : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified Carcinogenicity : Not classified Reproductive toxicity Not classified STOT-single exposure : Not classified

### N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

**BUTAN-2-ONE O,O',O"-(VINYLSILYLIDYNE)TRIOXIME (2224-33-1)** 

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

**BUTAN-2-ONE O,O',O"-(METHYLSILYLIDYNE)TRIOXIME (22984-54-9)** 

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

Aspiration hazard Not classified

**VT-151P Vital Red Pro RTV** 

Viscosity, kinematic Not applicable

**BUTAN-2-ONE O,O',O"-(VINYLSILYLIDYNE)TRIOXIME (2224-33-1)** 

Animal studies and expert judgment for classification False

**BUTAN-2-ONE O,O',O"-(METHYLSILYLIDYNE)TRIOXIME (22984-54-9)** 

Animal studies and expert judgment for classification False

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

False

Animal studies and expert judgment for classification

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects. : Not classified

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term (chronic)

: Harmful to aquatic life with long lasting effects.

Classification procedure (Hazardous to the aquatic environment, long-term (chronic))

: Calculation method

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BUTAN-2-ONE O,O',O"-(VINYLSILYLIDYNE)TRIOXIME (2224-33-1)		
LC50 fish 1	1011 mg/l	
EC50 other aquatic organisms 1	201 mg/l	
BUTAN-2-ONE O,O',O"-(METHYLSILYLIDYNE)TRIOXIME (22984-54-9)		
LC50 fish 1	972.34 mg/l	
EC50 other aquatic organisms 1	231.84 mg/l	

### 12.2. Persistence and degradability

VT-151P Vital Red Pro RTV	
Persistence and degradability	No additional information available

### 12.3. Bioaccumulative potential

VT-151P Vital Red Pro RTV	
Bioaccumulative potential	No additional information available

### 12.4. Mobility in soil

VT-151P Vital Red Pro RTV	
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 regulated for transport	Not regulated for transport		
14.2. UN Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	

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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**

No data available

#### IMDG

No data available

#### IATA

No data available

### 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:		
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H319	Causes serious eye irritation	
H335	May cause respiratory irritation	
H373	May cause damage to organs through prolonged or repeated exposure	
H412	Harmful to aquatic life with long lasting effects	

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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.