



# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

Issue date: 14/12/2020 Revision date: 14/07/2022 Supersedes: 20/09/2021 Version: 2.2

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### 1.1. Product identifier

Name : VT-230 Vital Nails Construction Adhesive Sealant

#### 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 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  
[sales@vitaltechnical.com](mailto:sales@vitaltechnical.com)

#### 1.5. Emergency phone number

No additional information available

### SECTION 2: Hazards identification

#### 2.1. Classification of the hazardous chemical

##### Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Flammable liquids, Category 2	H225
Skin corrosion or irritation, Category 2	H315
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity – Repeated exposure, Category 2	H373
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411

#### 2.2. Label elements

##### Labelling according to Industry Code of Practice on chemicals classification and hazard communication (2019)

Hazard pictograms (GHS MY) :



Signal word (GHS MY) :

Danger

Contains

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT

Hazard statements (GHS MY)

H225 - Highly flammable liquid and vapour.

H315 - Causes skin 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.

Precautionary statements (GHS MY)

P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

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

No smoking.

P233 - Keep container tightly closed.

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting equipment.

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

No additional information available

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Industry Code of Practice on chemicals classification and hazard communication (2019)
NAPHTHA (PETROLEUM), HYDROTREATED LIGHT	CAS-No.: 64742-49-0	10 – 30	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361f STOT SE 3, H336 STOT RE 2, H373 Asp. Haz., H304 Aquatic Chronic 2, H411

## 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 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.

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

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Irritation.

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

Other medical advice or treatment	: Treat symptomatically.
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## 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. Physicochemical 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 equipment and precautions 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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# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

EAC code : •3YE

### 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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

### 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. 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

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 and personal protection

#### 8.1. Control parameters

NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)	
Malaysia - Occupational Exposure Limits	
Local name	Sikloheksana # Cyclohexane
PEL TWA (mg/m <sup>3</sup> )	1030 mg/m <sup>3</sup>
PEL TWA (ppm)	300 ppm
MEL (mg/m <sup>3</sup> )	3090 mg/m <sup>3</sup>
MEL (ppm)	900 ppm
USA - ACGIH - Occupational Exposure Limits	
Local name	Cyclohexane
ACGIH TWA (ppm)	100 ppm

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)

Remark (ACGIH)	TLV® Basis: CNS impair
Regulatory reference	ACGIH 2021
<b>USA - ACGIH - Biological Exposure Indices</b>	
Local name	n-HEXANE
Biological Exposure Indices (BEI)	0.5 mg/l Parameter: 2,5-Hexanedione (without hydrolysis) - Medium: urine - Sampling time: End of shift
Regulatory reference	ACGIH 2021

### Exposure limit values for the other components

No additional information available

### 8.1.1 Biological monitoring

No additional information available

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

### 8.3. Individual protection measures, such as PPE

#### 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):



Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Paste.
Colour	: Brown
Odour	: Characteristic odour
Odour threshold	: No data available
pH	: Not applicable
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: > 35 °C
Flash point	: < 23 °C

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Explosive limits	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: Not applicable
Relative density	: ≈ 1.20
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: > 40 mm <sup>2</sup> /s
Viscosity, dynamic	: No data available

### SECTION 10: Stability and reactivity

Reactivity	: Highly flammable liquid and vapour.
Chemical stability	: Stable under normal conditions
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use
Conditions to avoid	: Avoid contact with hot surfaces, Heat, No flames, no sparks. Eliminate all sources of ignition
Incompatible materials	: No data available
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	: Causes skin irritation. pH: Not applicable
Serious eye damage/irritation	: Not classified
Respiratory sensitization	: Not classified
Skin sensitization	: Not classified
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.

#### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)

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

#### NAPHTHA (PETROLEUM), HYDROTREATED LIGHT (64742-49-0)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified.

#### VT-230 Vital Nails Construction Adhesive Sealant

Viscosity, kinematic	> 40 mm <sup>2</sup> /s
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### SECTION 12: Ecological information

#### 12.1. Ecotoxicity

Ecology - general	: Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

#### VT-230 Vital Nails Construction Adhesive Sealant

Persistence and degradability	No additional information available
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### 12.3. Bioaccumulative potential

#### VT-230 Vital Nails Construction Adhesive Sealant

Bioaccumulative potential	No additional information available
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### 12.4. Mobility in soil

#### VT-230 Vital Nails Construction Adhesive Sealant

Mobility in soil	No additional information available
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### 12.5. Other adverse effects

Ozone : Not classified  
Other adverse effects : No additional information available

## SECTION 13: Disposal information

### 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: Transportation information

### 14.1. UN number

UN-No.(UN RTDG) : 1133  
UN-No. (IMDG) : 1133  
UN-No. (IATA) : 1133

### 14.2. UN proper shipping name

Proper Shipping Name (UN RTDG) : ADHESIVES  
Proper Shipping Name (IMDG) : ADHESIVES  
Proper Shipping Name (IATA) : Adhesives

### 14.3. Transport hazard class(es)

#### UN RTDG

Transport hazard class(es) (UN RTDG) : 3  
Danger labels (UN RTDG) : 3  
:



#### IMDG

Transport hazard class(es) (IMDG) : 3  
Danger labels (IMDG) : 3

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019



### IATA

Transport hazard class(es) (IATA) : 3  
Danger labels (IATA) : 3



### 14.4. Packing Group, if applicable

Packing group (UN RTDG) : II  
Packing group (IMDG) : II  
Packing group (IATA) : II

### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : No supplementary information available

### 14.6. Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

#### 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 instructions (UN RTDG) : T4  
Portable tank and bulk container special provisions (UN RTDG) : TP1, TP8

#### IMDG

Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E2  
Packing instructions (IMDG) : P001  
Special packing provisions (IMDG) : PP1  
IBC packing instructions (IMDG) : IBC02  
Tank instructions (IMDG) : T4  
Tank special provisions (IMDG) : TP1, TP8  
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS  
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS  
Stowage category (IMDG) : B  
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

# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

### 14.7. Special precautions for user

Not applicable

### 14.8. Hazchem or Emergency Action Code

EAC code : •3YE.

## SECTION 15: Regulatory information

### 15.1. Safety, health, and environmental regulations specific for the hazardous chemical in question

Regulation	Component/ Mixture
EHS Notification and Registration Scheme	
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	Not applicable
Environmental Quality (Industrial Effluent) Regulations 2009	VT-230 Vital Nails Construction Adhesive Sealant
Environmental Quality (Scheduled Wastes) Regulations 2007	VT-230 Vital Nails Construction Adhesive Sealant
Control of Industrial Major Accident Hazards Regulations 1996	VT-230 Vital Nails Construction Adhesive Sealant
Prohibition of Use of Substance Order 1999	VT-230 Vital Nails Construction Adhesive Sealant
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000	VT-230 Vital Nails Construction Adhesive Sealant
Chemical Weapons Convention Act	VT-230 Vital Nails Construction Adhesive Sealant
Corrosive and Explosive Substances and Offensive Weapons Act	VT-230 Vital Nails Construction Adhesive Sealant
Dangerous Drugs Act	VT-230 Vital Nails Construction Adhesive Sealant
Pesticides Act	VT-230 Vital Nails Construction Adhesive Sealant
Petroleum (Safety Measures) Act	VT-230 Vital Nails Construction Adhesive Sealant
Poisons Act 1952	VT-230 Vital Nails Construction Adhesive Sealant
Poisons (Psychotropic Substances) Regulations 1989	VT-230 Vital Nails Construction Adhesive Sealant

### 15.2. International agreements

No additional information available

## SECTION 16: Other information

Version : 2.2  
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# VT-230 Vital Nails Construction Adhesive Sealant

## Safety Data Sheet

according to ICOP 2014,2019

Full text of H-statements	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Asp. Haz.	Aspiration hazard, Category 1
Asp. Tox. Not classified	Aspiration hazard Not classified
Flam. Liq. 2	Flammable liquids, Category 2
Repr. 2	Reproductive toxicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), Malaysia

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.