

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 10/5/2021 Revision date: 9/5/2022 Supersedes: 10/5/2021 Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier	
Product form	: Mixture
Product name	: VT-504 FRC Epoxy Adhesive Part B
UN-No. (ADR)	: 2735
Product group	: Trade product
1.2. Other means of identifica	ition

No additional information available

1.3. Recommended use of the chemical and	d restrictions on use	
Use of the substance/mixture	: Adhesives	
1.4. Supplier's details		
Manufacturer Vital Technical Sdn. Bhd. No.93, Jalan Industri 3/3 Rawang Integrated Industri 48000 Rawang, Selangor, Malaysia. T +603 60942088 - F +603 60992930 1.5. Emergency phone number	al Park,	
No additional information available		
SECTION 2: Hazard identification		
2.1. Classification of the substance or mixt	ure	
Classification according to the United Nations Gl Skin corrosion/irritation, Category 1	HS H314	Calculation method

Skin corrosion/irritation, Category 1	H314	Calculation method
Serious eye damage/eye irritation, Category 1	H318	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 : Causes severe	e skin burns and eye damage,May cause an	allergic skin reaction,Causes
environmental effects serious eye da	amage,Harmful to aquatic life with long lastin	ig effects.

2.2. GHS Label elements, including precautionary statements

: Danger
: FATTY ACIDS, C18-UNSATD., DIMERS, POLYMERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE; N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE; 4,4'- DIAMINODICYCLOHEXYLMETAHNE; 3-N-ALKENYL PHENOL; FATTY ACIDS, C14-18 AND C16-18-UNSATD, 2-PHENOXYETHYL ESTERS, MALEATED; 3,6- diazaoctanethylenediamin; triethylenetetramine
: H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H412 - Harmful to aquatic life with long lasting effects
 P260 - Do not breathe vapours, spray, mist, gas, fume, dust. P261 - Avoid breathing dust, fume, gas, mist, spray, vapours. P264 - Wash hands hands, forearms and face thoroughly after handling.

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

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

P273 - Avoid release to the environment.

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
3-N-ALKENYL PHENOL	CAS-No.: 8007-24-7	1 – 10	Skin Sens. 1, H317
4,4'-DIAMINODICYCLOHEXYLMETAHNE	CAS-No.: 1761-71-3	1 – 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373
FATTY ACIDS, C18-UNSATD.,DIMERS,POLYMERS WITH TALL-OIL FATTY ACIDS AND IRIETHYLENETETRAMINE	CAS-No.: 68082-29-1	1 – 10	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411
N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE	CAS-No.: 10563-26-5	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317
3,6-diazaoctanethylenediamin; triethylenetetramine	CAS-No.: 112-24-3	0.1 – 1	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412

SECTION 4: First-aid measures 4.1. Description of necessary first-aid measures First-aid measures general : Call a physician immediately. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a First-aid measures after skin contact physician immediately. First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately. 4.2. Most important symptoms/effects, acute and delayed Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction. Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : Burns.

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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. Do not breathe 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 Other information	Take up liquid spill into absorbent material.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. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.	
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.	
7.2 Conditions for safe storage inc	luding any incompatibilities	

Storage conditions

: Store locked up. 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.	

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Environmental exposure controls

: Avoid release to the environment.

: Protective gloves

: Safety glasses

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

Hand protection

Eye protection

Skin and body protection

Respiratory protection

Wear suitable protective clothingIn 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
Colour	: Off-white.
Odour	: Pungent.
Odour threshold	: Not available
Melting point	: No data available
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
Auto-ignition temperature	: No data available
Decomposition temperature	: Not available
рН	: Not applicable
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
Relative density	: 1.65
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)

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.

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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			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Not classified		
Acute toxicity (dermal)	Not classified		
Acute toxicity (inhalation) :	Not classified		
Skin corrosion/irritation :	Causes severe skin burns.		
Sorious ava damaga/irritation	pH: Not applicable Causes serious eye damage.		
Serious eye damage/irritation :	pH: Not applicable		
Respiratory or skin sensitisation :	May cause an allergic skin reaction.		
	Not classified		
Carcinogenicity	Not classified		
Reproductive toxicity :	Not classified		
STOT-single exposure :	Not classified		
STOT-repeated exposure :	Not classified		
4,4'-DIAMINODICYCLOHEXYLMETAHNE (176	1-71-3)		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard :	Not classified		
FATTY ACIDS, C18-UNSATD.,DIMERS,POLYN 29-1)	IERS WITH TALL-OIL FATTY ACIDS AND TRIETHYLENETETRAMINE (68082-		
Animal studies and expert judgment for classification	False		
N,N'-BIS(3-AMINOPROPYL)ETHYLENEDIAMINE (10563-26-5)			
Animal studies and expert judgment for classification	False		
4,4'-DIAMINODICYCLOHEXYLMETAHNE (1761-71-3)			
Animal studies and expert judgment for classification	False		
3-N-ALKENYL PHENOL (8007-24-7)			
Animal studies and expert judgment for classification	False		
3,6-diazaoctanethylenediamin; triethylenetetramine (112-24-3)			
Animal studies and expert judgment for classification	False		

SECTION 12: Ecological information

12.1. Toxicity

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

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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
12.2. Persistence and degradability	
VT-504 FRC Epoxy Adhesive Part B	
Persistence and degradability	No additional information available
12.3. Bioaccumulative potential	
VT-504 FRC Epoxy Adhesive Part B	
Bioaccumulative potential	No additional information available
12.4. Mobility in soil	
VT-504 FRC Epoxy Adhesive Part B	
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

UN RTDG	IMDG	ΙΑΤΑ	
14.1. UN number			
Not applicable	2735	2735	
4.2. UN Proper Shipping Name			
Not applicable	AMINES, LIQUID, CORROSIVE, N.O.S.	Amines, liquid, corrosive, n.o.s.	
I4.3. Transport hazard class(es)			
Not applicable	8	8	
Not applicable	B	B	
14.4. Packing group			
Not applicable			

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UN RTDG	IMDG	ΙΑΤΑ
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		

UN RTDG

No data available

IMDG	
Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG35
Properties and observations (IMDG)	: Colourless to yellowish liquids or solutions with a pungent odour. Miscible with or soluble in water. When involved in a fire, evolve toxic gases. Corrosive to most metals, especially to copper and its alloys. Reacts violently with acids. Cause burns to skin, eyes and mucous

membranes.

ΙΑΤΑ		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)	:	Y841
PCA limited quantity max net quantity (IATA)	:	1L
PCA packing instructions (IATA)	:	852
PCA max net quantity (IATA)	:	5L
CAO packing instructions (IATA)	:	856
CAO max net quantity (IATA)	:	60L
Special provisions (IATA)	:	A3, A803
ERG code (IATA)	:	8L

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

ECTION 16: Other information	
Issue date Revision date Supersedes	: 10/5/2021 : 9/5/2022 : 10/5/2021
Abbreviations and acronyms	: CAS-No Chemical Abstract Service number ATE - Acute Toxicity Estimate EC50 - Median effective concentration EC-No European Community number

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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

ull text of H-statements:	
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
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.