

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021) Issue date: 8/7/2021 Revision date: 3/25/2022 Supersedes: 8/7/2021 Version: 1.1

SECTION 1: Identification

1.1. GHS Product identifier		
Product form Product name UN-No. (ADR) Product group	 Mixture VT-388 Low VOC Contact Adhesive 1133 Trade product 	
1.2. Other means of identification		
No additional information available		
1.3. Recommended use of the chemic	al and restrictions on use	
Use of the substance/mixture Recommended use	: Adhesives : Adhesives	
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 3	H316	Calculation method
Serious eye damage/eye irritation, Category 2	H319	Calculation method
Skin sensitisation, Category 1	H317	Calculation method
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336	Calculation method
Full text of H-statements: see section 16		

Adverse physicochemical, human health and environmental effects

: Highly flammable liquid and vapour,May cause drowsiness or dizziness,Causes mild skin irritation,May cause an allergic skin reaction,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) Hazardous ingredients Hazard statements (GHS UN)



- : Danger
- : methyl acetate, rosin; colophony
- : H225 Highly flammable liquid and vapour
 - H316 Causes mild skin irritation
 - H317 May cause an allergic skin reaction
 - H319 Causes serious eye irritation
 - H336 May cause drowsiness or dizziness

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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.
	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.

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
methyl acetate	CAS-No.: 79-20-9	50 – 70	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
rosin; colophony	CAS-No.: 8050-09-7	10 – 30	Skin Sens. 1, H317
xylene	CAS-No.: 1330-20-7	1 – 10	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315

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 First-aid measures after inhalation First-aid measures after skin contact	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. 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 First-aid measures after ingestion	 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. Call a poison center or a doctor if you feel unwell. 	
4.2. Most important symptoms/effects, acute and delayed		
Symptoms/effects Symptoms/effects after skin contact Symptoms/effects after eye contact	 May cause drowsiness or dizziness. Irritation. May cause an allergic skin reaction. 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 Unsuitable extinguishing media	: Dry powder. Foam. Carbon dioxide. : Water spray.

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6.2. Environmental precautions

5.2. Specific hazards arising from the chemical	
Fire hazard Hazardous decomposition products in case of fire	Highly flammable liquid and vapour.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. Avoid breathing 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".		

Avoid release to the environment.		
6.3. Methods and materials for containment	t 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 storag	je
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. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. 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.
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		
methyl acetate (79-20-9)		
USA - ACGIH - Occupational Exposure Limits		
Local name	Methyl acetate	
ACGIH TWA (ppm)	200 ppm	
ACGIH STEL (ppm)	250 ppm	

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methyl acetate (79-20-9)			
Remark (ACGIH)	TLV® Basis: Headache; dizziness; nausea; eye dam (degeneration of ganglion cells in the		
	retina)		
Regulatory reference	ACGIH 2021		
xylene (1330-20-7)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	Xylene, mixed isomers, pure		
IOELV TWA (mg/m³)	221 mg/m ³		
IOELV STEL (mg/m ³)	442 mg/m ³		
IOELV STEL (ppm)	100 ppm		
Notes	Skin		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC		
USA - ACGIH - Occupational Exposure Limits	·		
Local name	Xylene, mixed isomers (Dimethylbenzene)		
ACGIH TWA (ppm)	100 ppm		
ACGIH STEL (ppm)	150 ppm		
Remark (ACGIH)	TLV® Basis: URT & eye irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI		
Regulatory reference	ACGIH 2021		
USA - ACGIH - Biological Exposure Indices			
Local name	XYLENES (Technical or commercial grade)		
Biological Exposure Indices (BEI)	1.5 g/g creatinine Parameter: Methylhippuric acids - Medium: urine - Sampling time: End of shift		
Regulatory reference	ACGIH 2021		
8.2. 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)			
	Protective gloves		
Eye protection : Skin and body protection :	Safety glasses 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

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Colour	: Yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	· Not available
Boiling point	: > 57 °C
	: Not applicable
Flammability	· Not available
Lower explosion limit	
Upper explosion limit	: Not available
Flash point	: < 23 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: Not available
рН	: Not applicable
pH solution	: Not available
Viscosity, kinematic (calculated value) (40 °C)	: > 40 mm²/s
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	: ≈ 0.95
Relative vapour density at 20 °C	No data available
Solubility	Not available
Viscosity, dynamic	: 5000 – 7000 cP
Particle size	
Faiture 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

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

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.

SECTION 11: Toxicological information				
11.1. Information on toxicological effects				
Acute toxicity (oral) Acute toxicity (dermal)	: Not classified : Not classified			
Acute toxicity (inhalation)	: Not classified			

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methyl acetate (79-20-9)	1	
LD50 oral rat	≈ 6482 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 Inhalation - Rat	> 49.2 mg/l	
Skin corrosion/irritation :	Causes mild skin irritation.	
	pH: Not applicable	
Serious eye damage/irritation :	Causes serious eye irritation.	
	pH: Not applicable	
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 :	May cause drowsiness or dizziness.	
methyl acetate (79-20-9)		
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure :	Not classified	
Aspiration hazard :	Not classified	
VT-388 Low VOC Contact Adhesive		
Viscosity, kinematic	> 40 mm²/s	

SECTION 12: Ecological information			
12.1. Toxicity			
Ecology - general Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic)	 The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Not classified Not classified 		
12.2. Persistence and degradability			
VT-388 Low VOC Contact Adhesive			
Persistence and degradability	No additional information available		
12.3. Bioaccumulative potential			
VT-388 Low VOC Contact Adhesive			
Bioaccumulative potential	No additional information available		
12.4. Mobility in soil			
VT-388 Low VOC Contact Adhesive			
Mobility in soil	No additional information available		
12.5. Other adverse effects			
Ozone Other adverse effects	 Not classified No additional information available 		

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods Additional information Dispose of contents/container in accordance with licensed collector's sorting instructions.
 Flammable vapours may accumulate in the container.

SECTION 14: Transport information

UN RTDG	IMDG	ΙΑΤΑ
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)
14.3. Transport hazard class(es)		
3	3	3
3		
14.4. Packing group	-	I
II	II	II
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		I
4.6. Special precautions for user		

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	:	Τ4
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
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

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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.
ΙΑΤΑ	
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

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		
ssue date : 07/08/2021 Revision date : 25/03/2022 Supersedes : 07/08/2021		
Full text of H-statements:		
H225	Highly flammable liquid and vapour	
H226	Flammable liquid and vapour	
H304	May be fatal if swallowed and enters airways	
H312	Harmful in contact with skin	
H315	Causes skin irritation	
H316	Causes mild skin irritation	
H317	May cause an allergic skin reaction	
H319	Causes serious eye irritation	
H332	Harmful if inhaled	
H336	May cause drowsiness or dizziness	

Safety Data Sheet (SDS), UN

H361

H373

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.

Suspected of damaging fertility or the unborn child

May cause damage to organs through prolonged or repeated exposure