



## Safety Data Sheet

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<b>Document Group:</b>	36-3452-4	<b>Version Number:</b>	5.00
<b>Issue Date:</b>	08/05/2026	<b>Supersedes Date:</b>	12/02/2023

This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ VHB™ Tape Universal Primer UV

#### Product Identification Numbers

70-0075-0487-4      70-0075-0505-3      70-0075-0506-1      70-0075-0508-7

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Adhesion Promoter

For Industrial or Professional use only

#### 1.3. Supplier's details

**ADDRESS:** 3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301  
Petaling, Jaya, Selangor

**Telephone:** 03-7884 2888

**E Mail:** 3mmyehsr@mmm.com

**Website:** www.3M.com.my

#### 1.4. Emergency telephone number

+60 03-7884 2888

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Flammable Liquid: Category 2.  
Skin Corrosion/Irritation: Category 2.  
Serious Eye Damage/Irritation: Category 2.  
Skin Sensitizer: Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.  
Aspiration Hazard: Category 1.  
Acute Aquatic Toxicity: Category 1.  
Chronic Aquatic Toxicity: Category 3.

## 2.2. Label elements

### Signal word

Danger

### Symbols

Flame | Exclamation mark | Health Hazard | Environment |

### Pictograms



### Hazard Statements:

H225	Highly flammable liquid and vapor.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H304	May be fatal if swallowed and enters airways.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P273	Avoid release to the environment.
P280B	Wear protective gloves, eye protection, and face protection.

#### Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P333 + P313	If skin irritation or rash occurs: Get medical attention.
P370 + P378	In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Disposal:

P501	Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.
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## 2.3. Other hazards

May cause drowsiness or dizziness.

## SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt
Heptane, branched, cyclic and linear	426260-76-6	30 - 60
Methyl Acetate	79-20-9	30 - 60
2-Methylhexane	591-76-4	10 - 30*
3-Methylhexane	589-34-4	10 - 30*
Non-Volatile Polymeric Components	Trade Secret	1 - 5
Citric Acid, Tributyl Ester, Acetate	77-90-7	0.5 - 1.5
Cyclohexane	110-82-7	< 1*
Methylcyclohexane	108-87-2	< 1*
Beta-(3,4-Epoxy)cyclohexyl)Ethyltrimethoxy Silane	3388-04-3	< 0.2
Maleic Anhydride	108-31-6	< 0.05

\*These components are contained as a part of Heptane, branched, cyclic and linear(426260-76-6)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

#### Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

#### If Swallowed:

Do not induce vomiting. Get immediate medical attention.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Allergic skin reaction (redness, swelling, blistering, and itching). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

#### Substance

Carbon monoxide  
Carbon dioxide

#### Condition

During Combustion  
During Combustion

### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and

prevent explosive rupture. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

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

Contain spill. Cover spill area with a fire extinguishing foam that is resistant to polar solvents. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

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

Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
Maleic Anhydride	108-31-6	ACGIH	TWA(inhalable fraction and vapor):0.01 mg/m <sup>3</sup>	A4: Not class. as human carcin, Dermal/Respiratory Sensitizer
Maleic Anhydride	108-31-6	Malaysia OELs	TWA(8 hours):1 mg/m <sup>3</sup> (0.25 ppm)	
Methylcyclohexane	108-87-2	ACGIH	TWA:100 ppm	
Methylcyclohexane	108-87-2	Malaysia OELs	TWA(8 hours):1610 mg/m <sup>3</sup> (400 ppm)	
Cyclohexane	110-82-7	ACGIH	TWA:100 ppm	
Cyclohexane	110-82-7	Malaysia OELs	TWA(8 hours):1030 mg/m <sup>3</sup> (300 ppm)	
Heptane (n-Heptane)	426260-76-6	Malaysia OELs	TWA(8 hours):1640 mg/m <sup>3</sup> (400 ppm)	
Heptane, straight and branched isomers	426260-76-6	ACGIH	TWA:200 ppm;STEL:400 ppm	Ototoxicant
Heptane (n-Heptane)	589-34-4	Malaysia OELs	TWA(8 hours):1640 mg/m <sup>3</sup> (400 ppm)	
Heptane, straight and branched isomers	589-34-4	ACGIH	TWA:200 ppm;STEL:400 ppm	Ototoxicant
Heptane (n-Heptane)	591-76-4	Malaysia OELs	TWA(8 hours):1640 mg/m <sup>3</sup> (400 ppm)	
Heptane, straight and branched isomers	591-76-4	ACGIH	TWA:200 ppm;STEL:400 ppm	Ototoxicant
Methyl Acetate	79-20-9	ACGIH	TWA:200 ppm;STEL:250 ppm	
Methyl Acetate	79-20-9	Malaysia OELs	TWA(8 hours):606 mg/m <sup>3</sup> (200 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Use explosion-proof ventilation equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Safety Glasses with side shields

Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the

substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

Organic vapor cartridges may have short service life.

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Liquid
Color	Colorless
Odor	Mild Solvent
Odor threshold	No Data Available
pH	4.4
Melting point/Freezing point	Not Applicable
Boiling point/Initial boiling point/Boiling range	61.9 °C [ @ 101,324.72 Pa ]
Flash Point	-10 °C [ Test Method: Closed Cup ]
Evaporation rate	No Data Available
Flammability	Flammable Liquid: Category 2.
Flammable Limits(LEL)	1.2 % [ Details: Heptane ]
Flammable Limits(UEL)	16 % [ Details: Methyl Acetate ]
Vapor Pressure	152.4 mmHg [ @ 20 °C ]
Relative Vapor Density	No Data Available
Density	0.77 g/ml [ @ 23 °C ]
Relative Density	0.77 [ @ 23 °C ] [ Ref Std: WATER=1 ]
Water solubility	23 % [ @ 23 °C ]
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Kinematic Viscosity	30.5 mm <sup>2</sup> /sec
Volatile Organic Compounds	429 g/l [ Test Method: calculated SCAQMD rule 443.1 ]
Percent volatile	<=96 % weight [ Test Method: Estimated ]
VOC Less H <sub>2</sub> O & Exempt Solvents	700 g/l [ Test Method: calculated SCAQMD rule 443.1 ]
Molecular weight	Not Applicable

Particle Characteristics

*Not Applicable*

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

### 10.5. Incompatible materials

Strong oxidizing agents

### 10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

May be harmful if inhaled. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

#### Skin Contact:

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

#### Ingestion:

Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal. Gastrointestinal Irritation: Signs/symptoms may

include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

#### Additional Health Effects:

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Heptane, branched, cyclic and linear	Dermal	Rabbit	LD50 > 2,920 mg/kg
Heptane, branched, cyclic and linear	Inhalation-Vapor (4 hours)	Rat	LC50 > 23.3 mg/l
Heptane, branched, cyclic and linear	Ingestion	Rat	LD50 > 5,840 mg/kg
Methyl Acetate	Dermal	Rat	LD50 > 2,000 mg/kg
Methyl Acetate	Inhalation-Vapor (4 hours)	Rat	LC50 > 49 mg/l
Methyl Acetate	Ingestion	Rat	LD50 > 5,000 mg/kg
3-Methylhexane	Dermal	similar compounds	LD50 > 2,000 mg/kg
3-Methylhexane	Inhalation-Vapor (4 hours)	similar compounds	LC50 > 33.5 mg/l
3-Methylhexane	Ingestion	similar compounds	LD50 > 5,000 mg/kg
2-Methylhexane	Dermal	similar compounds	LD50 > 2,000 mg/kg
2-Methylhexane	Inhalation-Vapor (4 hours)	similar compounds	LC50 > 33.5 mg/l
2-Methylhexane	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Citric Acid, Tributyl Ester, Acetate	Ingestion	Rat	LD50 > 31,500 mg/kg
Citric Acid, Tributyl Ester, Acetate	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
Methylcyclohexane	Inhalation-Vapor	Professional judgement	LC50 estimated to be 20 - 50 mg/l
Methylcyclohexane	Ingestion	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
Methylcyclohexane	Dermal	similar compounds	LD50 > 2,000 mg/kg
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Dermal	Rabbit	LD50 6,700 mg/kg
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Inhalation-Vapor (4	Rat	LC50 > 7 mg/l

	hours)		
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Ingestion	Rat	LD50 13,100 mg/kg
Cyclohexane	Dermal	Rat	LD50 > 2,000 mg/kg
Cyclohexane	Inhalation-Vapor (4 hours)	Rat	LC50 > 32.9 mg/l
Cyclohexane	Ingestion	Rat	LD50 6,200 mg/kg
Maleic Anhydride	Dermal	Rabbit	LD50 2,620 mg/kg
Maleic Anhydride	Ingestion	Rat	LD50 1,030 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
Heptane, branched, cyclic and linear	Rabbit	Irritant
Methyl Acetate	Rabbit	No significant irritation
3-Methylhexane	Professional judgement	Mild irritant
2-Methylhexane	Professional judgement	Mild irritant
Citric Acid, Tributyl Ester, Acetate	Rabbit	No significant irritation
Methylcyclohexane	Rabbit	No significant irritation
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Rabbit	Minimal irritation
Cyclohexane	Rabbit	Mild irritant
Maleic Anhydride	Human and animal	Corrosive

**Serious Eye Damage/Irritation**

Name	Species	Value
Heptane, branched, cyclic and linear	Rabbit	Mild irritant
Methyl Acetate	Rabbit	Moderate irritant
3-Methylhexane	similar compounds	Mild irritant
2-Methylhexane	similar compounds	Mild irritant
Citric Acid, Tributyl Ester, Acetate	Rabbit	Mild irritant
Methylcyclohexane	Rabbit	No significant irritation
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Rabbit	No significant irritation
Cyclohexane	Rabbit	Mild irritant
Maleic Anhydride	Rabbit	Corrosive

**Sensitization:**

**Skin Sensitization**

Name	Species	Value
Heptane, branched, cyclic and linear	Guinea pig	Not classified
Methyl Acetate	Human	Not classified
3-Methylhexane	similar compounds	Not classified
2-Methylhexane	similar compounds	Not classified
Citric Acid, Tributyl Ester, Acetate	Guinea	Not classified

Methylcyclohexane	pig similar compounds	Not classified
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	similar compounds	Sensitizing
Maleic Anhydride	Multiple animal species	Sensitizing

**Respiratory Sensitization**

Name	Species	Value
Maleic Anhydride	Human	Sensitizing

**Germ Cell Mutagenicity**

Name	Route	Value
Heptane, branched, cyclic and linear	In Vitro	Not mutagenic
Methyl Acetate	In Vitro	Not mutagenic
Methyl Acetate	In vivo	Not mutagenic
3-Methylhexane	In Vitro	Not mutagenic
2-Methylhexane	In Vitro	Not mutagenic
Citric Acid, Tributyl Ester, Acetate	In Vitro	Not mutagenic
Citric Acid, Tributyl Ester, Acetate	In vivo	Not mutagenic
Methylcyclohexane	In Vitro	Not mutagenic
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	In Vitro	Some positive data exist, but the data are not sufficient for classification
Cyclohexane	In Vitro	Not mutagenic
Cyclohexane	In vivo	Some positive data exist, but the data are not sufficient for classification
Maleic Anhydride	In vivo	Not mutagenic
Maleic Anhydride	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
Citric Acid, Tributyl Ester, Acetate	Ingestion	Rat	Not carcinogenic
Methylcyclohexane	Inhalation	Multiple animal species	Not carcinogenic
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
Heptane, branched, cyclic and linear	Not Specified	Not classified for female reproduction	Rat	NOAEL Not available	2 generation
Heptane, branched, cyclic and linear	Not Specified	Not classified for male reproduction	Rat	NOAEL Not available	2 generation
Heptane, branched, cyclic and linear	Not Specified	Not classified for development	Rat	NOAEL Not available	2 generation
Citric Acid, Tributyl Ester, Acetate	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
Citric Acid, Tributyl Ester, Acetate	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	2 generation
Citric Acid, Tributyl Ester, Acetate	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	2 generation

Methylcyclohexane	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Methylcyclohexane	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Beta-(3,4-Epoxy cyclohexyl)Ethyltrimethoxy Silane	Ingestion	Not classified for development	Rabbit	NOAEL 0.27 mg/kg/day	during organogenesis
Cyclohexane	Inhalation	Not classified for female reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Not classified for male reproduction	Rat	NOAEL 24 mg/l	2 generation
Cyclohexane	Inhalation	Not classified for development	Rat	NOAEL 6.9 mg/l	2 generation
Maleic Anhydride	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
Maleic Anhydride	Ingestion	Not classified for male reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
Maleic Anhydride	Ingestion	Not classified for development	Rat	NOAEL 140 mg/kg/day	during organogenesis

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Heptane, branched, cyclic and linear	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Methyl Acetate	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Methyl Acetate	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Methyl Acetate	Inhalation	blindness	Not classified		NOAEL Not available	
Methyl Acetate	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
3-Methylhexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
3-Methylhexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
3-Methylhexane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Methylhexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-Methylhexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
2-Methylhexane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Methylcyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Methylcyclohexane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Cyclohexane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	

Cyclohexane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
Cyclohexane	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Maleic Anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Methyl Acetate	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	28 days
Methyl Acetate	Inhalation	endocrine system	Not classified	Rat	NOAEL 6.1 mg/l	28 days
Methyl Acetate	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 6.1 mg/l	28 days
Methyl Acetate	Inhalation	liver	Not classified	Rat	NOAEL 6.1 mg/l	28 days
Methyl Acetate	Inhalation	immune system	Not classified	Rat	NOAEL 6.1 mg/l	28 days
Methyl Acetate	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 6.1 mg/l	28 days
3-Methylhexane	Inhalation	nervous system	Not classified	Rat	NOAEL 6.15 mg/l	30 weeks
3-Methylhexane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 12.5 mg/l	16 weeks
3-Methylhexane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 12.2 mg/l	26 weeks
3-Methylhexane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.2 mg/l	26 weeks
2-Methylhexane	Inhalation	nervous system	Not classified	Rat	NOAEL 6.15 mg/l	30 weeks
2-Methylhexane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 12.5 mg/l	16 weeks
2-Methylhexane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 12.2 mg/l	26 weeks
2-Methylhexane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.2 mg/l	26 weeks
Citric Acid, Tributyl Ester, Acetate	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Citric Acid, Tributyl Ester, Acetate	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Citric Acid, Tributyl Ester, Acetate	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Citric Acid, Tributyl Ester, Acetate	Ingestion	kidney and/or	Not classified	Rat	NOAEL	2 years

Acetate		bladder			1,000 mg/kg/day	
Methylcyclohexane	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	heart	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	skin	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	endocrine system	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	liver	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	immune system	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	nervous system	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Inhalation	respiratory system	Not classified	Rat	NOAEL 8 mg/l	1 years
Methylcyclohexane	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Methylcyclohexane	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Cyclohexane	Inhalation	liver	Not classified	Rat	NOAEL 24 mg/l	90 days
Cyclohexane	Inhalation	auditory system	Not classified	Rat	NOAEL 1.7 mg/l	90 days
Cyclohexane	Inhalation	kidney and/or bladder	Not classified	Rabbit	NOAEL 2.7 mg/l	10 weeks
Cyclohexane	Inhalation	hematopoietic system	Not classified	Mouse	NOAEL 24 mg/l	14 weeks
Cyclohexane	Inhalation	peripheral nervous system	Not classified	Rat	NOAEL 8.6 mg/l	30 weeks

Maleic Anhydride	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
Maleic Anhydride	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	nervous system	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	heart	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	liver	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Inhalation	eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
Maleic Anhydride	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
Maleic Anhydride	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 250 mg/kg/day	183 days
Maleic Anhydride	Ingestion	heart	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
Maleic Anhydride	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
Maleic Anhydride	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
Maleic Anhydride	Ingestion	skin	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	endocrine system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	immune system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	eyes	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
Maleic Anhydride	Ingestion	respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

**Aspiration Hazard**

Name	Value
Heptane, branched, cyclic and linear	Aspiration hazard
3-Methylhexane	Aspiration hazard
2-Methylhexane	Aspiration hazard
Methylcyclohexane	Aspiration hazard
Cyclohexane	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity**

**Acute aquatic hazard:**

GHS Acute 1: Very toxic to aquatic life.

**Chronic aquatic hazard:**

GHS Chronic 3: Harmful to aquatic life with long lasting effects

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
Heptane, branched, cyclic and linear	426260-76-6	Green algae	Estimated	72 hours	EL50	29 mg/l
Heptane, branched, cyclic and linear	426260-76-6	Water flea	Estimated	48 hours	EL50	3 mg/l
Heptane, branched, cyclic and linear	426260-76-6	Rainbow Trout	Experimental	96 hours	LL50	>13.4 mg/l
Heptane, branched, cyclic and linear	426260-76-6	Green algae	Estimated	72 hours	NOEL	6.3 mg/l
Heptane, branched, cyclic and linear	426260-76-6	Water flea	Estimated	21 days	NOEL	1 mg/l
Methyl Acetate	79-20-9	Green algae	Experimental	72 hours	ErC50	>120 mg/l
Methyl Acetate	79-20-9	Water flea	Experimental	48 hours	EC50	1,026.7 mg/l
Methyl Acetate	79-20-9	Zebra Fish	Experimental	96 hours	LC50	250 mg/l
Methyl Acetate	79-20-9	Green algae	Experimental	72 hours	NOEC	120 mg/l
Methyl Acetate	79-20-9	Bacteria	Experimental	16 hours	EC50	6,000 mg/l
2-Methylhexane	591-76-4	Mysid Shrimp	Analogous Compound	96 hours	LC50	0.4 mg/l
2-Methylhexane	591-76-4	Water flea	Analogous Compound	48 hours	EC50	0.4 mg/l
3-Methylhexane	589-34-4	Mysid Shrimp	Analogous Compound	96 hours	LC50	0.4 mg/l
3-Methylhexane	589-34-4	Water flea	Analogous Compound	48 hours	EC50	0.4 mg/l
Non-Volatile Polymeric Components	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Citric Acid, Tributyl Ester, Acetate	77-90-7	Bluegill	Experimental	96 hours	LC50	38 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Green algae	Experimental	72 hours	ErC50	74.4 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Mummichog	Experimental	96 hours	LC50	59 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Water flea	Experimental	48 hours	EC50	7.82 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Fathead Minnow	Experimental	7 days	NOEC	0.355 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Green algae	Experimental	72 hours	NOEC	0.109 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Water flea	Experimental	21 days	NOEC	>=1.11 mg/l
Citric Acid, Tributyl Ester, Acetate	77-90-7	Activated sludge	Experimental	3 hours	EC10	>1,000 mg/l
Cyclohexane	110-82-7	Fathead Minnow	Experimental	96 hours	LC50	4.53 mg/l
Cyclohexane	110-82-7	Water flea	Experimental	48 hours	EC50	0.9 mg/l
Cyclohexane	110-82-7	Bacteria	Experimental	24 hours	IC50	97 mg/l
Methylcyclohexane	108-87-2	N/A	Experimental	96 hours	LC50	3.3 mg/l
Methylcyclohexane	108-87-2	Green algae	Experimental	72 hours	ErC50	0.134 mg/l
Methylcyclohexane	108-87-2	Medaka	Experimental	96 hours	LC50	2.07 mg/l
Methylcyclohexane	108-87-2	Striped bass	Experimental	96 hours	LC50	5.8 mg/l

Methylcyclohexane	108-87-2	Water flea	Experimental	48 hours	EC50	0.326 mg/l
Methylcyclohexane	108-87-2	Green algae	Experimental	72 hours	NOEC	0.022 mg/l
Beta-(3,4-Epoxy-cyclohexyl)E-thyltrimethoxy Silane	3388-04-3	Activated sludge	Estimated	30 minutes	IC50	>100 mg/l
Beta-(3,4-Epoxy-cyclohexyl)E-thyltrimethoxy Silane	3388-04-3	Green algae	Estimated	72 hours	EC50	280 mg/l
Beta-(3,4-Epoxy-cyclohexyl)E-thyltrimethoxy Silane	3388-04-3	Rainbow Trout	Estimated	96 hours	LC50	180 mg/l
Beta-(3,4-Epoxy-cyclohexyl)E-thyltrimethoxy Silane	3388-04-3	Water flea	Estimated	48 hours	EC50	20 mg/l
Beta-(3,4-Epoxy-cyclohexyl)E-thyltrimethoxy Silane	3388-04-3	Green algae	Estimated	72 hours	NOEC	1 mg/l
Maleic Anhydride	108-31-6	Bacteria	Experimental	18 hours	EC10	44.6 mg/l
Maleic Anhydride	108-31-6	Rainbow Trout	Experimental	96 hours	LC50	75 mg/l
Maleic Anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC50	74.4 mg/l
Maleic Anhydride	108-31-6	Water flea	Hydrolysis Product	48 hours	EC50	93.8 mg/l
Maleic Anhydride	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l
Maleic Anhydride	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC10	11.8 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Heptane, branched, cyclic and linear	426260-76-6	Estimated Biodegradation	28 days	Biological Oxygen Demand	98 %BOD/ThOD	OECD 301F - Manometric Respiro
Methyl Acetate	79-20-9	Experimental Biodegradation	28 days	Biological Oxygen Demand	70 %BOD/ThOD	OECD 301D - Closed Bottle Test
Methyl Acetate	79-20-9	Experimental Aquatic Inherent Biodegrad.	6 days	Dissolv. Organic Carbon Deplet	>95 %removal of DOC	OECD 302B Zahn-Wellens/EVPA
Methyl Acetate	79-20-9	Experimental Photolysis		Photolytic half-life (in air)	94 days (t 1/2)	
Methyl Acetate	79-20-9	Experimental Hydrolysis		Hydrolytic half-life	44 days (t 1/2)	
2-Methylhexane	591-76-4	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	93 %BOD/ThOD	OECD 301C - MITI (I)
3-Methylhexane	589-34-4	Analogous Compound Biodegradation	28 days	Biological Oxygen Demand	93 %BOD/ThOD	OECD 301C - MITI (I)
Non-Volatile Polymeric Components	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Citric Acid, Tributyl Ester, Acetate	77-90-7	Experimental Biodegradation	28 days	Biological Oxygen Demand	16 %BOD/ThOD	OECD 301D - Closed Bottle Test
Citric Acid, Tributyl Ester, Acetate	77-90-7	Experimental Aquatic Inherent Biodegrad.	28 days	Biological Oxygen Demand	82 %BOD/ThOD	OECD 302C - Modified MITI (II)
Citric Acid, Tributyl Ester, Acetate	77-90-7	Experimental Soil Metabolism Aerobic	42 days	Carbon dioxide evolution	>60 %CO2 evolution/THCO2 evolution	835.3300 Soil Biodeg
Cyclohexane	110-82-7	Experimental Biodegradation	28 days	Biological Oxygen Demand	77 %BOD/ThOD	OECD 301F - Manometric Respiro

Cyclohexane	110-82-7	Experimental Photolysis		Photolytic half-life (in air)	4.3 days (t 1/2)	
Methylcyclohexane	108-87-2	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 %BOD/ThOD	OECD 301D - Closed Bottle Test
Methylcyclohexane	108-87-2	Experimental Photolysis		Photolytic half-life (in air)	3.0 days (t 1/2)	
Beta-(3,4-Epoxy)cyclohexyl)E thyltrimethoxy Silane	3388-04-3	Estimated Biodegradation	28 days	Biological Oxygen Demand	28 %BOD/ThOD	OECD 301D - Closed Bottle Test
Beta-(3,4-Epoxy)cyclohexyl)E thyltrimethoxy Silane	3388-04-3	Estimated Hydrolysis		Hydrolytic half-life	6.5 hours (t 1/2)	
Maleic Anhydride	108-31-6	Hydrolysis product Biodegradation	25 days	Carbon dioxide evolution	>90 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
Maleic Anhydride	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	0.37 minutes (t 1/2)	

### 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Heptane, branched, cyclic and linear	426260-76-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Methyl Acetate	79-20-9	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.18	
2-Methylhexane	591-76-4	Modeled Bioconcentration		Bioaccumulation Factor	98	Catalogic™
2-Methylhexane	591-76-4	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	3.71	Episuite™
3-Methylhexane	589-34-4	Modeled Bioconcentration		Bioaccumulation Factor	120	Catalogic™
3-Methylhexane	589-34-4	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	3.71	Episuite™
Non-Volatile Polymeric Components	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Citric Acid, Tributyl Ester, Acetate	77-90-7	Modeled Bioconcentration		Bioaccumulation Factor	5.1	Catalogic™
Citric Acid, Tributyl Ester, Acetate	77-90-7	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	4.86	OECD 117 log Kow HPLC method
Cyclohexane	110-82-7	Experimental BCF - Fish	56 days	Bioaccumulation Factor	129	OECD305-Bioconcentration
Cyclohexane	110-82-7	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.44	
Methylcyclohexane	108-87-2	Experimental BCF - Fish	56 days	Bioaccumulation Factor	<=321	OECD305-Bioconcentration
Methylcyclohexane	108-87-2	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.88	
Beta-(3,4-Epoxy)cyclohexyl)E thyltrimethoxy Silane	3388-04-3	Estimated Bioconcentration		Bioaccumulation Factor	2.3	
Maleic Anhydride	108-31-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.61	OECD 107 log Kow shke flsk mtd

#### 12.4. Mobility in soil

Please contact manufacturer for more details

#### 12.5 Other adverse effects

No information available

### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

### SECTION 14: Transport Information

#### Marine Transport (IMDG)

**UN Number:**UN1993

**Proper Shipping Name:**FLAMMABLE LIQUID, N.O.S.

**Technical Name:**(HEPTANE, METHYL ACETATE)

**Hazard Class/Division:**3

**Subsidiary Risk:**None assigned.

**Packing Group:**II

**Limited Quantity:**Yes

**Marine Pollutant:** None assigned.

**Marine Pollutant Technical Name:** None assigned.

**Other Dangerous Goods Descriptions:**

None assigned.

#### Air Transport (IATA)

**UN Number:**UN1993

**Proper Shipping Name:**FLAMMABLE LIQUID, N.O.S.

**Technical Name:**(HEPTANE, METHYL ACETATE)

**Hazard Class/Division:**3

**Subsidiary Risk:**None assigned.

**Packing Group:**II

**Limited Quantity:**None assigned.

**Marine Pollutant:** None assigned.

**Marine Pollutant Technical Name:** None assigned.

**Other Dangerous Goods Descriptions:**

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Global inventory status**

Contact 3M for more information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

**SECTION 16: Other information**

DISCLAIMER: The information in this Safety Data Sheet (SDS) is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this SDS or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own evaluation to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into Malaysia, you are responsible for all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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