

## Safety Data Sheet

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**Document Group:** 07-4047-2 **Version Number:** 4.00

**Issue Date:** 16/07/2021 **Supercedes Date:** 08/12/2020

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<sup>TM</sup> Adhesion Promoter 4298UV

#### **Product Identification Numbers**

70-0706-9724-1	70-0706-9725-8	70-0706-9727-4	75-3472-0925-8	75-3472-3884-4
75-3472-3885-1	DR-4000-9316-4	H0-0018-8876-9	H0-0019-8490-7	HB-0046-4405-8
IA-2100-4776-6	JT-2800-2028-3	JT-2800-4377-2	UU-0099-2264-0	XG-0038-9496-9

XH-0038-7935-6

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

#### Recommended use

Automotive - Industrial/Professional use, Adhesion Promoter

#### 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. Acute Toxicity (dermal): Category 4. Acute Toxicity (inhalation): Category 4. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 2.

Skin Sensitizer: Category 1. Carcinogenicity: Category 2.

Specific Target Organ Toxicity (single exposure): Category 1. Specific Target Organ Toxicity (repeated exposure): Category 1.

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.

H312 + H332Harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eve irritation.

May cause an allergic skin reaction. H317 Suspected of causing cancer. H351

May be fatal if swallowed and enters airways. H304

H370 Causes damage to organs: sensory organs.

Causes damage to organs through prolonged or repeated exposure: nervous system. H372

H373 May cause damage to organs through prolonged or repeated exposure: sensory

organs.

H400 Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects. H412

#### **Precautionary statements**

#### **Prevention:**

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

No smoking.

Do not breathe dust/fume/gas/mist/vapors/spray. P260

Avoid release to the environment. P273

P280D Wear protective gloves, protective clothing, and eye/face protection.

P281 Use personal protective equipment as required.

**Response:** 

P301 + P310IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

IF exposed: Call a POISON CENTER or doctor/physician. P307+P311

Do NOT induce vomiting. P331

If skin irritation or rash occurs: Get medical advice/attention. P333 + P313

P370 + P378In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

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chemical or carbon dioxide to extinguish.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

#### 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	
CYCLOHEXANE	110-82-7	45 - 50	
Xylene	1330-20-7	15 - 40	
Ethylbenzene	100-41-4	1 - 15	
ETHYL ALCOHOL	64-17-5	5 - 10	
CHLORINATED RUBBER	68609-36-9	1 - 5	
O-XYLENE	95-47-6	< 5	
ACRYLATE POLYMER	Trade Secret	1 - 5	
ETHYL ACETATE	141-78-6	< 4	
Isopropyl Alcohol	67-63-0	< 2	
4,4'-isopropylidenediphenol-	25068-38-6	< 1	
epichlorohydrin polymer			
METHYL ALCOHOL	67-56-1	< 0.5	
TOLUENE	108-88-3	< 0.3	
CHLOROBENZENE	108-90-7	< 0.2	
Cumene	98-82-8	< 0.2	
MALEIC ANHYDRIDE	108-31-6	< 0.02	

Any remaining components do not contribute to the hazards of this material.

## **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:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

#### If Swallowed:

Do not induce vomiting. Get immediate medical attention.

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

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). Target organ effects. See Section 11 for additional details. Target organ effects following

prolonged or repeated exposure. See Section 11 for additional details.

#### 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**

<b>Substance</b>	<b>Condition</b>
Aldehydes	During Combustion
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **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

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

Take precautionary measures against static discharge. Do not breathe 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. Use personal protective equipment (gloves, respirators, etc.) as required. 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. 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
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal
Ethylbenzene	100-41-4	Malaysia OELs	TWA(8 hours):434 mg/m3(100 ppm)	carcin.
MALEIC ANHYDRIDE	108-31-6	ACGIH	TWA(inhalable fraction and vapor):0.01 mg/m3	A4: Not class. as human carcin, Dermal/Respiratory Sensitizer
MALEIC ANHYDRIDE	108-31-6	Malaysia OELs	TWA(8 hours):1 mg/m3(0.25 ppm)	
TOLUENE	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human carcin, Ototoxicant
TOLUENE	108-88-3	Malaysia OELs	TWA(8 hours):188 mg/m3(50 ppm)	SKIN
CHLOROBENZENE	108-90-7	ACGIH	TWA:10 ppm	A3: Confirmed animal carcin.
CHLOROBENZENE	108-90-7	Malaysia OELs	TWA(8 hours):46 mg/m3(10 ppm)	
CYCLOHEXANE	110-82-7	ACGIH	TWA:100 ppm	
CYCLOHEXANE	110-82-7	Malaysia OELs		
Xylene	1330-20-7	ACGIH	TWA:100 ppm;STEL:150 ppm A4: Not class. as carcin	
Xylene	1330-20-7	Malaysia OELs	TWA(8 hours):434 mg/m3(100 ppm)	
ETHYL ACETATE	141-78-6	ACGIH	TWA:400 ppm	
ETHYL ACETATE	141-78-6	Malaysia OELs		
ETHYL ALCOHOL	64-17-5	ACGIH	STEL:1000 ppm A3: Confirmed ani carcin.	
ETHYL ALCOHOL	64-17-5	Malaysia OELs	TWA(8 hours):1880 mg/m3(1000 ppm)	
METHYL ALCOHOL	67-56-1	ACGIH	TWA:200 ppm;STEL:250 ppm	Danger of cutaneous

				absorption
METHYL ALCOHOL	67-56-1	Malaysia OELs	TWA(8 hours):262 mg/m3(200 ppm)	SKIN
Isopropyl Alcohol	67-63-0	ACGIH	TWA:200 ppm;STEL:400 ppm	A4: Not class. as human carcin
Isopropyl Alcohol	67-63-0	Malaysia OELs	TWA(8 hours):983 mg/m3(400 ppm)	
O-XYLENE	95-47-6	ACGIH	TWA:100 ppm;STEL:150 ppm	A4: Not class. as human carcin
O-XYLENE	95-47-6	Malaysia OELs	TWA(8 hours):434 mg/m3(100 ppm)	
Cumene	98-82-8	ACGIH	TWA:5 ppm	A3: Confirmed animal carcin.
Cumene	98-82-8	Malaysia OELs	TWA(8 hours):246 mg/m3(50 ppm)	SKIN

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:

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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

#### 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

Half facepiece or full facepiece supplied-air respirator

Organic vapor respirators 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

Information on basic physical and chemical properti	es		
Physical state	Liquid		
Specific Physical Form:	Liquid		
Color	Yellow		
Odor	Solvent		
Odor threshold	No Data Available		
pH	Approximately 5.5 Units not avail. or not appl. [Test		
	Method: Tested per ASTM protocol] [Details:@23°C]		
Melting point/Freezing point	Not Applicable		
Boiling point/Initial boiling point/Boiling range	73.1 °C [Test Method:Tested per ASTM protocol]		
	[Details:@760mmHg]		
Flash Point	1.1 °C [Test Method:SETAFLASH]		
Evaporation rate	Approximately 6.4 [Ref Std:XYLENE=1]		
	[Details:CONDITIONS: calculated]		
Flammability (solid, gas)	Not Applicable		
Flammable Limits(LEL)	Approximately 1 %		
Flammable Limits(UEL)	11 %		
Vapor Pressure	11,092.4 Pa [@ 20 °C ] [Test Method: Tested per ASTM protocol]		
Vapor Density and/or Relative Vapor Density	1.7 [Test Method:Estimated] [Ref Std:AIR=1]		
Density	0.8 kg/l		
Relative Density	0.82 [Ref Std:WATER=1]		
Water solubility	Approximately 10 %		
Solubility- non-water	No Data Available		
Partition coefficient: n-octanol/ water	No Data Available		
Autoignition temperature	260 °C [Test Method: Estimated]		
Decomposition temperature	No Data Available		
Viscosity/Kinematic Viscosity	<=25 mPa-s [@ 20 °C ]		
Volatile Organic Compounds	<=781 g/l [Test Method:calculated SCAQMD rule 443.1]		
	[Details: Calculated]		
Percent volatile	95.2 % [Details:Calculated]		
VOC Less H2O & Exempt Solvents	<=781 g/l [Test Method:calculated SCAQMD rule 443.1]		
	[Details:Calculated]		
Molecular weight	No Data Available		
	•		

## Nanoparticles

This material does not contain nanoparticles.

# **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

None known.

### 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:**

May be harmful in contact with skin.

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

May cause additional health effects (see below).

#### **Eye Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired 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:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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

#### Prolonged or repeated exposure may cause target organ effects:

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### **Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

#### **Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

#### **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 ATE2,000 - 5,000 mg/kg
Overall product	Inhalation- Vapor(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 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
Xylene	Dermal	Rabbit	LD50 > 4,200 mg/kg
Xylene	Inhalation- Vapor (4 hours)	Rat	LC50 29 mg/l
Xylene	Ingestion	Rat	LD50 3,523 mg/kg
Ethylbenzene	Dermal	Rabbit	LD50 15,433 mg/kg
Ethylbenzene	Inhalation- Vapor (4 hours)	Rat	LC50 17.4 mg/l
Ethylbenzene	Ingestion	Rat	LD50 4,769 mg/kg
ETHYL ALCOHOL	Dermal	Rabbit	LD50 > 15,800 mg/kg
ETHYL ALCOHOL	Inhalation- Vapor (4 hours)	Rat	LC50 124.7 mg/l
ETHYL ALCOHOL	Ingestion	Rat	LD50 17,800 mg/kg
O-XYLENE	Dermal	Rabbit	LD50 > 4,200 mg/kg
O-XYLENE	Inhalation- Vapor (4 hours)	Rat	LC50 29 mg/l
O-XYLENE	Ingestion	Rat	LD50 3,523 mg/kg

ETHYL ACETATE	Dermal	Rabbit	LD50 > 18,000 mg/kg
ETHYL ACETATE	Inhalation-	Rat	LC50 70.5 mg/l
	Vapor (4		
	hours)		
ETHYL ACETATE	Ingestion	Rat	LD50 5,620 mg/kg
CHLORINATED RUBBER	Dermal	Guinea	LD50 > 1,000 mg/kg
		pig	
CHLORINATED RUBBER	Ingestion	Rat	LD50 > 3,200 mg/kg
Isopropyl Alcohol	Dermal	Rabbit	LD50 12,870 mg/kg
Isopropyl Alcohol	Inhalation-	Rat	LC50 72.6 mg/l
	Vapor (4		
	hours)	_	
Isopropyl Alcohol	Ingestion	Rat	LD50 4,710 mg/kg
METHYL ALCOHOL	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
METHYL ALCOHOL	Inhalation-		LC50 estimated to be 10 - 20 mg/l
	Vapor		
METHYL ALCOHOL	Ingestion		LD50 estimated to be 50 - 300 mg/kg
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Ingestion	Rat	LD50 > 1,000 mg/kg
TOLUENE	Dermal	Rat	LD50 12,000 mg/kg
TOLUENE	Inhalation-	Rat	LC50 30 mg/l
	Vapor (4		
	hours)		
TOLUENE	Ingestion	Rat	LD50 5,550 mg/kg
Cumene	Dermal	Rabbit	LD50 > 3,160 mg/kg
Cumene	Inhalation-	Rat	LC50 39.4 mg/l
	Vapor (4		
	hours)		
Cumene	Ingestion	Rat	LD50 1,400 mg/kg
CHLOROBENZENE	Dermal	Rabbit	LD50 2,212 mg/kg
CHLOROBENZENE	Inhalation-	Rat	LC50 16.7 mg/l
	Vapor (4		
	hours)		
CHLOROBENZENE	Ingestion	Rat	LD50 1,419 mg/kg
MALEIC ANHYDRIDE	Dermal	Rabbit	LD50 2,620 mg/kg
MALEIC ANHYDRIDE	Ingestion	Rat	LD50 1,030 mg/kg

 $\overline{ATE}$  = acute toxicity estimate

## **Skin Corrosion/Irritation**

Name	Species	Value
CYCLOHEXANE	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Mild irritant
ETHYL ALCOHOL	Rabbit	No significant irritation
O-XYLENE	Rabbit	Mild irritant
ETHYL ACETATE	Rabbit	Minimal irritation
CHLORINATED RUBBER	Guinea	No significant irritation
	pig	
Isopropyl Alcohol	Multiple	No significant irritation
	animal	
	species	
METHYL ALCOHOL	Rabbit	Mild irritant
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Rabbit	Mild irritant
TOLUENE	Rabbit	Irritant
Cumene	Rabbit	Minimal irritation
CHLOROBENZENE	Rabbit	Irritant
MALEIC ANHYDRIDE	Human	Corrosive
	and	
	animal	

**Serious Eye Damage/Irritation** 

Name	Species	Value

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CYCLOHEXANE	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
Ethylbenzene	Rabbit	Moderate irritant
ETHYL ALCOHOL	Rabbit	Severe irritant
O-XYLENE	Rabbit	Mild irritant
ETHYL ACETATE	Rabbit	Mild irritant
CHLORINATED RUBBER	Professio	Mild irritant
	nal	
	judgemen	
	t	
Isopropyl Alcohol	Rabbit	Severe irritant
METHYL ALCOHOL	Rabbit	Moderate irritant
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Rabbit	Moderate irritant
TOLUENE	Rabbit	Moderate irritant
Cumene	Rabbit	Mild irritant
CHLOROBENZENE	Rabbit	Mild irritant
MALEIC ANHYDRIDE	Rabbit	Corrosive

## **Sensitization:**

## **Skin Sensitization**

Name	Spacias	Value
Name	Species	value
Ethylbenzene	Human	Not classified
ETHYL ALCOHOL	Human	Not classified
ETHYL ACETATE	Guinea	Not classified
	pig	
Isopropyl Alcohol	Guinea	Not classified
	pig	
METHYL ALCOHOL	Guinea	Not classified
	pig	
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Human	Sensitizing
	and	
	animal	
TOLUENE	Guinea	Not classified
	pig	
Cumene	Guinea	Not classified
	pig	
CHLOROBENZENE	Multiple	Not classified
	animal	
	species	
MALEIC ANHYDRIDE	Multiple	Sensitizing
	animal	
	species	

**Respiratory Sensitization** 

Name	Species	Value
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Human	Not classified
MALEIC ANHYDRIDE	Human	Sensitizing

**Germ Cell Mutagenicity** 

Name	Route	Value		
CYCLOHEXANE	In Vitro	Not mutagenic		
CYCLOHEXANE	In vivo	Some positive data exist, but the data are not sufficient for classification		
Xylene	In Vitro	Not mutagenic		
Xylene	In vivo	Not mutagenic		
Ethylbenzene	In vivo	Not mutagenic		
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification		
ETHYL ALCOHOL	In Vitro	Some positive data exist, but the data are not sufficient for classification		

ETHYL ALCOHOL	In vivo	Some positive data exist, but the data are not sufficient for classification
O-XYLENE	In Vitro	Not mutagenic
O-XYLENE	In vivo	Not mutagenic
ETHYL ACETATE	In Vitro	Not mutagenic
ETHYL ACETATE	In vivo	Not mutagenic
Isopropyl Alcohol	In Vitro	Not mutagenic
Isopropyl Alcohol	In vivo	Not mutagenic
METHYL ALCOHOL	In Vitro	Some positive data exist, but the data are not sufficient for classification
METHYL ALCOHOL	In vivo	Some positive data exist, but the data are not sufficient for classification
4,4'-isopropylidenediphenol-epichlorohydrin polymer	In vivo	Not mutagenic
4,4'-isopropylidenediphenol-epichlorohydrin polymer	In Vitro	Some positive data exist, but the data are not sufficient for classification
TOLUENE	In Vitro	Not mutagenic
TOLUENE	In vivo	Not mutagenic
Cumene	In Vitro	Not mutagenic
Cumene	In vivo	Not mutagenic
CHLOROBENZENE	In Vitro	Not mutagenic
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
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple animal	Not carcinogenic
		species	
Xylene	Inhalation	Human	Some positive data exist, but the data are not
			sufficient for classification
Ethylbenzene	Inhalation	Multiple	Carcinogenic
		animal	
		species	
ETHYL ALCOHOL	Ingestion	Multiple	Some positive data exist, but the data are not
		animal	sufficient for classification
		species	
O-XYLENE	Dermal	Rat	Not carcinogenic
O-XYLENE	Ingestion	Multiple animal species	Not carcinogenic
O-XYLENE	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Isopropyl Alcohol	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
METHYL ALCOHOL	Inhalation	Multiple animal species	Not carcinogenic
4,4'-isopropylidenediphenol-epichlorohydrin polymer	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
TOLUENE	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
TOLUENE	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
TOLUENE	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification
Cumene	Inhalation	Multiple animal species	Carcinogenic
CHLOROBENZENE	Ingestion	Multiple animal species	Not carcinogenic

## Reproductive Toxicity

Reproductive and/or Developmental Effects

Reproductive and/or Developmen	Route	Value	Species	Test Result	Exposure
			•		Duration
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
Xylene	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
Xylene	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesis
Xylene	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation
ETHYL ALCOHOL	Inhalation	Not classified for development	Rat	NOAEL 38 mg/l	during gestation
ETHYL ALCOHOL	Ingestion	Not classified for development	Rat	NOAEL 5,200 mg/kg/day	premating & during gestation
O-XYLENE	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
O-XYLENE	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesis
O-XYLENE	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
Isopropyl Alcohol	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during organogenesis
Isopropyl Alcohol	Inhalation	Not classified for development	Rat	LOAEL 9 mg/l	during gestation
METHYL ALCOHOL	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,600 mg/kg/day	21 days
METHYL ALCOHOL	Ingestion	Toxic to development	Mouse	LOAEL 4,000 mg/kg/day	during organogenesis
METHYL ALCOHOL	Inhalation	Toxic to development	Mouse	NOAEL 1.3 mg/l	during organogenesis
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
4,4'-isopropylidenediphenol- epichlorohydrin polymer	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
TOLUENE	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
TOLUENE	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
TOLUENE	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
TOLUENE	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse
Cumene	Inhalation	Not classified for development	Rabbit	NOAEL 11.3 mg/l	during organogenesis
CHLOROBENZENE	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.07 mg/l	2 generation
CHLOROBENZENE	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during organogenesis
CHLOROBENZENE	Inhalation	Not classified for development	Rat	NOAEL 2.07 mg/l	2 generation

CHLOROBENZENE	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.07	2 generation
				mg/l	
MALEIC ANHYDRIDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 55	2 generation
		_		mg/kg/day	
MALEIC ANHYDRIDE	Ingestion	Not classified for male reproduction	Rat	NOAEL 55	2 generation
		-		mg/kg/day	
MALEIC ANHYDRIDE	Ingestion	Not classified for development	Rat	NOAEL 140	during
	_	•		mg/kg/day	organogenesis

## Lactation

Name	Route	Species	Value
Xylene	Ingestion	Mouse	Not classified for effects on or via lactation
O-XYLENE	Ingestion	Mouse	Not classified for effects on or via lactation

## Target Organ(s)

**Specific Target Organ Toxicity - single exposure** 

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
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	Professio nal judgeme nt	NOAEL Not available	
Xylene	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
Xylene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Xylene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Xylene	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg	not applicable
Ethylbenzene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Ethylbenzene	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
ETHYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	LOAEL 9.4 mg/l	not available
ETHYL ALCOHOL	Inhalation	central nervous system depression	Not classified	Human and animal	NOAEL not available	
ETHYL ALCOHOL	Ingestion	central nervous system depression	Not classified	Multiple animal species	NOAEL not available	
ETHYL ALCOHOL	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg	
O-XYLENE	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
O-XYLENE	Inhalation	central nervous	May cause drowsiness or	Human	NOAEL Not	

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		system depression	dizziness		available	
O-XYLENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
O-XYLENE	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
O-XYLENE	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
O-XYLENE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
O-XYLENE	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg	not applicable
ETHYL ACETATE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ETHYL ACETATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
ETHYL ACETATE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Isopropyl Alcohol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Isopropyl Alcohol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
Isopropyl Alcohol	Inhalation	auditory system	Not classified	Guinea pig	NOAEL 13.4 mg/l	24 hours
Isopropyl Alcohol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
METHYL ALCOHOL	Inhalation	blindness	Causes damage to organs	Human	NOAEL Not available	occupational exposure
METHYL ALCOHOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	not available
METHYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	6 hours
METHYL ALCOHOL	Ingestion	blindness	Causes damage to organs	Human	NOAEL Not available	poisoning and/or abuse
METHYL ALCOHOL	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
TOLUENE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
TOLUENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
TOLUENE	Inhalation	immune system	Not classified	Mouse	NOAEL 0.004 mg/l	3 hours
TOLUENE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse
Cumene	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
Cumene	Inhalation	respiratory irritation	May cause respiratory irritation	Human	LOAEL 0.2 mg/l	occupational exposure
Cumene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	not available
CHLOROBENZENE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
CHLOROBENZENE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
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
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
Xylene	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
Xylene	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
Xylene	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Inhalation	heart   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   respiratory system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
Xylene	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
Xylene	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
Xylene	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
Xylene	Ingestion	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
Ethylbenzene	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	2 years
Ethylbenzene	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
Ethylbenzene	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
Ethylbenzene	Inhalation	auditory system	Not classified	Rat	NOAEL 2.4 mg/l	5 days
Ethylbenzene	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3 mg/l	103 weeks
Ethylbenzene	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Inhalation	bone, teeth, nails, and/or hair   muscles	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
Ethylbenzene	Inhalation	heart   immune system   respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
Ethylbenzene	Ingestion	liver   kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months
ETHYL ALCOHOL	Inhalation	liver	Some positive data exist, but the	Rabbit	LOAEL 124	365 days

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			data are not sufficient for classification		mg/l	
ETHYL ALCOHOL	Inhalation	hematopoietic system   immune system	Not classified	Rat	NOAEL 25 mg/l	14 days
ETHYL ALCOHOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 8,000 mg/kg/day	4 months
ETHYL ALCOHOL	Ingestion	kidney and/or bladder	Not classified	Dog	NOAEL 3,000 mg/kg/day	7 days
O-XYLENE	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
O-XYLENE	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
O-XYLENE	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
O-XYLENE	Inhalation	heart   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   respiratory system	Not classified	Multiple animal species	NOAEL 3.5 mg/l	13 weeks
O-XYLENE	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
O-XYLENE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
O-XYLENE	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
O-XYLENE	Ingestion	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   respiratory system	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
ETHYL ACETATE	Inhalation	endocrine system   liver   nervous system	Not classified	Rat	NOAEL 0.043 mg/l	90 days
ETHYL ACETATE	Inhalation	hematopoietic system	Not classified	Rabbit	LOAEL 16 mg/l	40 days
ETHYL ACETATE	Ingestion	hematopoietic system   liver   kidney and/or bladder	Not classified	Rat	NOAEL 3,600 mg/kg/day	90 days
Isopropyl Alcohol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 12.3 mg/l	24 months
Isopropyl Alcohol	Inhalation	nervous system	Not classified	Rat	NOAEL 12 mg/l	13 weeks
Isopropyl Alcohol	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 400 mg/kg/day	12 weeks
METHYL ALCOHOL	Inhalation	liver	Not classified	Rat	NOAEL 6.55 mg/l	4 weeks
METHYL ALCOHOL	Inhalation	respiratory system	Not classified	Rat	NOAEL 13.1 mg/l	6 weeks
METHYL ALCOHOL	Ingestion	liver   nervous system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
4,4'- isopropylidenediphenol-	Dermal	liver	Not classified	Rat	NOAEL 1,000	2 years

epichlorohydrin polymer					mg/kg/day	
4,4'- isopropylidenediphenol- epichlorohydrin polymer	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'- isopropylidenediphenol- epichlorohydrin polymer	Ingestion	auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
TOLUENE	Inhalation	auditory system   eyes   olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
TOLUENE	Inhalation	nervous system	May cause damage to organs though prolonged or repeated exposure	Human	NOAEL Not available	poisoning and/or abuse
TOLUENE	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 2.3 mg/l	15 months
TOLUENE	Inhalation	heart   liver   kidney and/or bladder	Not classified	Rat	NOAEL 11.3 mg/l	15 weeks
TOLUENE	Inhalation	endocrine system	Not classified	Rat	NOAEL 1.1 mg/l	4 weeks
TOLUENE	Inhalation	immune system	Not classified	Mouse	NOAEL Not available	20 days
TOLUENE	Inhalation	bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 1.1 mg/l	8 weeks
TOLUENE	Inhalation	hematopoietic system   vascular system	Not classified	Human	NOAEL Not available	occupational exposure
TOLUENE	Inhalation	gastrointestinal tract	Not classified	Multiple animal species	NOAEL 11.3 mg/l	15 weeks
TOLUENE	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 625 mg/kg/day	13 weeks
TOLUENE	Ingestion	heart	Not classified	Rat	NOAEL 2,500 mg/kg/day	13 weeks
TOLUENE	Ingestion	liver   kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
TOLUENE	Ingestion	hematopoietic system	Not classified	Mouse	NOAEL 600 mg/kg/day	14 days
TOLUENE	Ingestion	endocrine system	Not classified	Mouse	NOAEL 105 mg/kg/day	28 days
TOLUENE	Ingestion	immune system	Not classified	Mouse	NOAEL 105 mg/kg/day	4 weeks
Cumene	Inhalation	auditory system   endocrine system   hematopoietic system   liver   nervous system   eyes	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 4.9 mg/l	13 weeks
Cumene	Inhalation	respiratory system	Not classified	Rat	NOAEL 59 mg/l	13 weeks
Cumene	Ingestion	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   respiratory system	Not classified	Rat	NOAEL 769 mg/kg/day	6 months
CHLOROBENZENE	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.69 mg/l	2 generation

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CHLOROBENZENE	Inhalation	liver	Not classified	Rat	NOAEL 2.1 mg/l	2 generation
CHLOROBENZENE	Inhalation	blood	Not classified	Rat	NOAEL 0.35 mg/l	24 weeks
CHLOROBENZENE	Ingestion	bone marrow	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	13 weeks
CHLOROBENZENE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 188 mg/kg/day	192 days
CHLOROBENZENE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 125 mg/kg/day	13 weeks
CHLOROBENZENE	Ingestion	immune system	Not classified	Rat	NOAEL 750 mg/kg/day	13 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   hematopoietic system   nervous system   kidney and/or bladder   heart   liver   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   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   endocrine system   immune system   eyes   respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

Aspiration Hazard

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Name	Value
CYCLOHEXANE	Aspiration hazard
Xylene	Aspiration hazard
Ethylbenzene	Aspiration hazard
O-XYLENE	Aspiration hazard
TOLUENE	Aspiration hazard
Cumene	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
CYCLOHEXA	110-82-7	Bacteria	Experimental	24 hours	IC50	97 mg/l
NE						
CYCLOHEXA	110-82-7	Fathead	Experimental	96 hours	LC50	4.53 mg/l
NE		Minnow				
CYCLOHEXA	110-82-7	Water flea	Experimental	48 hours	EC50	0.9 mg/l
NE			1			
Xylene	1330-20-7	Activated	Estimated	3 hours	NOEC	157 mg/l
		sludge				
Xylene	1330-20-7	Green Algae	Estimated	72 hours	EC50	4.36 mg/l
Xylene	1330-20-7		Estimated	96 hours	LC50	2.6 mg/l
Xylene	1330-20-7	Water flea	Estimated	48 hours	EC50	3.82 mg/l
Xylene	1330-20-7	Green Algae	Estimated	72 hours	NOEC	0.44 mg/l
Xylene	1330-20-7	<del></del>	Estimated	56 days	NOEC	>1.3 mg/l
Xylene	1330-20-7	Water flea	Estimated	7 days	NOEC	0.96 mg/l
Ethylbenzene	100-41-4	Green Algae	Estimated	73 hours	EC50	4.36 mg/l
Ethylbenzene	100-41-4	Rainbow Trout	<del></del>	96 hours	LC50	2.6 mg/l
Ethylbenzene	100-41-4	Water flea	Estimated	48 hours	EC50	3.82 mg/l
Ethylbenzene	100-41-4	Activated	Experimental	49 hours	EC50	130 mg/l
Ethylochizene	100-41-4	sludge	Experimental	49 Hours	ECSO	130 mg/1
Ethylbenzene	100-41-4	Green Algae	Estimated	73 hours	NOEC	0.44 mg/l
Ethylbenzene	100-41-4	Rainbow Trout		56 days	NOEC	>1.3 mg/l
	100-41-4	Water flea	Estimated	7 days	NOEC	
Ethylbenzene			ļ			0.96 mg/l
ETHYL	64-17-5	Fathead Minnow	Experimental	96 hours	LC50	14,200 mg/l
ALCOHOL ETHYL	(4.17.5		F	061	1.050	11.000/1
	64-17-5	Fish other	Experimental	96 hours	LC50	11,000 mg/l
ALCOHOL	(4.17.5	C	F	70 1	EC50	275/1
ETHYL	64-17-5	Green algae	Experimental	72 hours	EC50	275 mg/l
ALCOHOL	(4.17.5	XX 4 CI	F	40.1	1.050	5.010 //
ETHYL	64-17-5	Water flea	Experimental	48 hours	LC50	5,012 mg/l
ALCOHOL	64 17 5	C 1	E 1	70.1	E C10	11.7 /1
ETHYL	64-17-5	Green algae	Experimental	72 hours	ErC10	11.5 mg/l
ALCOHOL	64 17 5	XX 4 CI	F	10.1	NOEC	0.6 /1
ETHYL	64-17-5	Water flea	Experimental	10 days	NOEC	9.6 mg/l
ALCOHOL	T 1 C .		D			27/4
ACRYLATE	Trade Secret		Data not			N/A
POLYMER			available or			
			insufficient for			
CTT OPPLIE			classification			2.7/4
CHLORINAT	68609-36-9		Data not			N/A
ED RUBBER			available or			
			insufficient for			
0 77777 == -=		<u> </u>	classification		1,107.5	1 /1
O-XYLENE	95-47-6	Activated	Estimated	3 hours	NOEC	157 mg/l
		sludge	<u> </u>			
O-XYLENE	95-47-6	Green Algae	Experimental	73 hours	EC50	4.36 mg/l
O-XYLENE	95-47-6	Rainbow Trout	Experimental	96 hours	LC50	2.6 mg/l

O-XYLENE	95-47-6	Water flea	Experimental	24 hours	IC50	1 mg/l
O-XYLENE	95-47-6	Green Algae	Experimental	73 hours	NOEC	0.44 mg/l
O-XYLENE	95-47-6	Rainbow Trout	Experimental	56 days	NOEC	>1.3 mg/l
O-XYLENE	95-47-6	Water flea	Experimental	7 days	NOEC	1.17 mg/l
ETHYL ACETATE	141-78-6	Bacteria	Experimental	18 hours	EC10	2,900 mg/l
ETHYL ACETATE	141-78-6	Crustacea	Experimental	48 hours	EC50	165 mg/l
ETHYL ACETATE	141-78-6	Fish	Experimental	96 hours	LC50	212.5 mg/l
ETHYL ACETATE	141-78-6	Green Algae	Experimental	72 hours	NOEC	100 mg/l
ETHYL ACETATE	141-78-6	Water flea	Experimental	21 days	NOEC	2.4 mg/l
Isopropyl Alcohol	67-63-0	Bacteria	Experimental	16 hours	LOEC	1,050 mg/l
Isopropyl Alcohol	67-63-0	Crustacea	Experimental	24 hours	LC50	>10,000 mg/l
Isopropyl Alcohol	67-63-0	Green Algae	Experimental	72 hours	EC50	>1,000 mg/l
Isopropyl Alcohol	67-63-0	Medaka	Experimental	96 hours	LC50	>100 mg/l
Isopropyl Alcohol	67-63-0	Water flea	Experimental	48 hours	EC50	>1,000 mg/l
Isopropyl Alcohol	67-63-0	Green algae	Experimental	72 hours	NOEC	1,000 mg/l
Isopropyl Alcohol	67-63-0	Water flea	Experimental	21 days	NOEC	100 mg/l
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Activated sludge	Estimated	3 hours	IC50	>100 mg/l
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Green Algae	Estimated	72 hours	EC50	>11 mg/l
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Rainbow Trout	Estimated	96 hours	LC50	2 mg/l
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Water flea	Estimated	48 hours	EC50	1.8 mg/l
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Green Algae	Estimated	72 hours	NOEC	4.2 mg/l
4,4'-	25068-38-6	Water flea	Estimated	21 days	NOEC	0.3 mg/l

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isopropylidene diphenol-						
epichlorohydri						
n polymer						
METHYL	67-56-1	Activated	Experimental	3 hours	IC50	>1,000 mg/l
ALCOHOL	07-30-1	sludge	Laperimentar	3 Hours	1030	7,000 mg/1
METHYL	67-56-1	Algae or other	Experimental	96 hours	EC50	16.9 mg/l
ALCOHOL	07 30 1	aquatic plants	Experimentar	Jo nouis	Leso	10.9 mg/1
METHYL	67-56-1	Bluegill	Experimental	96 hours	LC50	15,400 mg/l
ALCOHOL		21448		) o 110 til 5		10,100 mg/1
METHYL	67-56-1	Green Algae	Experimental	96 hours	EC50	22,000 mg/l
ALCOHOL				, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , ,
METHYL	67-56-1	Water flea	Experimental	24 hours	EC50	20,803 mg/l
ALCOHOL			1			, ,
METHYL	67-56-1	Algae or other	Experimental	96 hours	NOEC	9.96 mg/l
ALCOHOL		aquatic plants	1			
METHYL	67-56-1	Water flea	Experimental	21 days	NOEC	122 mg/l
ALCOHOL			1			
TOLUENE	108-88-3	Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
TOLUENE	108-88-3	Grass Shrimp	Experimental	96 hours	LC50	9.5 mg/l
TOLUENE	108-88-3	Green Algae	Experimental	72 hours	EC50	12.5 mg/l
TOLUENE	108-88-3	Leopard frog	Experimental	9 days	LC50	0.39 mg/l
TOLUENE	108-88-3	Pink Salmon	Experimental	96 hours	LC50	6.41 mg/l
TOLUENE	108-88-3	Water flea	Experimental	48 hours	EC50	3.78 mg/l
TOLUENE	108-88-3	Coho Salmon	Experimental	40 days	NOEC	1.39 mg/l
TOLUENE	108-88-3	Diatom	Experimental	72 hours	NOEC	10 mg/l
TOLUENE	108-88-3	Water flea	Experimental	7 days	NOEC	0.74 mg/l
TOLUENE	108-88-3	Activated	Experimental	12 hours	IC50	292 mg/l
		sludge				
TOLUENE	108-88-3	Bacteria	Experimental	16 hours	NOEC	29 mg/l
TOLUENE	108-88-3	Bacteria	Experimental	24 hours	EC50	84 mg/l
TOLUENE	108-88-3	Redworm	Experimental	28 days	LC50	>150 mg per kg of
						bodyweight
TOLUENE	108-88-3	Soil microbes	Experimental	28 days	NOEC	<26 mg/kg (Dry
						Weight)
CHLOROBEN	108-90-7	Bacteria	Experimental	24 hours	IC50	0.71 mg/l
ZENE						
CHLOROBEN	108-90-7	Fish other	Experimental	84 hours	LC50	0.34 mg/l
ZENE						
CHLOROBEN	108-90-7	Green Algae	Experimental	96 hours	EC50	12.5 mg/l
ZENE	100.00.7	XX	D 1	40.1	EGEO	0.50 //
CHLOROBEN	108-90-7	Water flea	Experimental	48 hours	EC50	0.59 mg/l
ZENE	100.00.7	W . C	E : 1	21 1	NOEG	0.70 //
CHLOROBEN	108-90-7	Water flea	Experimental	21 days	NOEC	0.72 mg/l
ZENE CHLOROBEN	108-90-7	Zahan Eigh	E-maninaantal	20 dans	NOEC	0.5
ZENE	108-90-7	Zebra Fish	Experimental	28 days	NOEC	8.5 mg/l
	98-82-8	Activated	Experimental	3 hours	EC10	>2,000 mg/l
Cumene	90-02-0	sludge	Experimental	3 Hours	ECTO	2,000 Hig/1
Cumene	98-82-8	Green algae	Experimental	72 hours	EC50	2.6 mg/l
Cumene	98-82-8	Mysid Shrimp	Experimental	96 hours	EC50	1.2 mg/l
Cumene	98-82-8	Rainbow Trout	Experimental	96 hours	LC50	2.7 mg/l
	98-82-8	Water flea	Experimental	48 hours	EC50	2.14 mg/l
Cumene	98-82-8	Green algae	Experimental	72 hours	NOEC	0.22 mg/l
Cumene	70-02-0	Joreen argae	Experimental	1/2 HOUIS	INOEC	U.22 IIIg/I

Cumene	98-82-8	Water flea	Experimental	21 days	NOEC	0.35 mg/l
MALEIC ANHYDRIDE	108-31-6	Green algae	Estimated	72 hours	EC50	74.4 mg/l
MALEIC ANHYDRIDE	108-31-6	Water flea	Estimated	48 hours	EC50	93.8 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	Estimated	72 hours	EC10	11.8 mg/l
MALEIC ANHYDRIDE	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l

## 12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
CYCLOHEXA NE	110-82-7	Experimental Photolysis		Photolytic half- life (in air)	4.14 days (t 1/2)	Non-standard method
CYCLOHEXA NE	110-82-7	Experimental Biodegradation	28 days	Biological Oxygen Demand	77 % BOD/ThBOD	OECD 301F - Manometric Respiro
Xylene	1330-20-7	Experimental Photolysis		Photolytic half- life (in air)	1.4 days (t 1/2)	Non-standard method
Xylene	1330-20-7	Experimental Biodegradation	28 days	Biological Oxygen Demand	90-98 % BOD/ThBOD	OECD 301F - Manometric Respiro
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	Biological Oxygen Demand	90-98 % BOD/ThBOD	OECD 301F - Manometric Respiro
ETHYL ALCOHOL	64-17-5	Experimental Biodegradation	14 days	Biological Oxygen Demand	89 % BOD/ThBOD	OECD 301C - MITI (I)
ACRYLATE POLYMER	Trade Secret	Data not availbl-insufficient			N/A	
CHLORINAT ED RUBBER	68609-36-9	Data not availbl-insufficient			n/a	
O-XYLENE	95-47-6	Estimated Biodegradation	28 days	Biological Oxygen Demand	98 % BOD/ThBOD	OECD 301F - Manometric Respiro
ETHYL ACETATE	141-78-6	Experimental Photolysis		Photolytic half- life (in air)	20.0 days (t 1/2)	Non-standard method
ETHYL ACETATE	141-78-6	Experimental Biodegradation	14 days	Biological Oxygen Demand	94 % BOD/ThBOD	OECD 301C - MITI (I)
Isopropyl Alcohol	67-63-0	Experimental Biodegradation	14 days	Biological Oxygen Demand	86 % BOD/ThBOD	OECD 301C - MITI (I)
4,4'- isopropylidene diphenol- epichlorohydri	25068-38-6	Estimated Hydrolysis		Hydrolytic half-life	117 hours (t 1/2)	Non-standard method

n polymer						
4,4'- isopropylidene diphenol- epichlorohydri n polymer	25068-38-6	Estimated Biodegradation	28 days	Biological Oxygen Demand	5 %BOD/COD	OECD 301F - Manometric Respiro
METHYL ALCOHOL	67-56-1	Experimental Biodegradation	14 days	Biological Oxygen Demand	92 % BOD/ThBOD	OECD 301C - MITI (I)
TOLUENE	108-88-3	Experimental Photolysis		Photolytic half- life (in air)	5.2 days (t 1/2)	
TOLUENE	108-88-3	Experimental Biodegradation	20 days	Biological Oxygen Demand	80 % BOD/ThBOD	APHA Std Meth Water/Wastewater
CHLOROBEN ZENE	108-90-7	Experimental Photolysis		Photolytic half- life (in air)	42 days (t 1/2)	Non-standard method
CHLOROBEN ZENE	108-90-7	Experimental Biodegradation	20 days	Biological Oxygen Demand	55 % weight	OECD 301D - Closed Bottle Test
Cumene	98-82-8	Experimental Photolysis		Photolytic half- life (in air)	4.5 days (t 1/2)	Non-standard method
Cumene	98-82-8	Experimental Biodegradation	14 days	Biological Oxygen Demand	33 % BOD/ThBOD	OECD 301C - MITI (I)
MALEIC ANHYDRIDE	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	22 seconds (t 1/2)	Non-standard method
MALEIC ANHYDRIDE	108-31-6	Estimated Biodegradation	25 days	Carbon dioxide evolution	>90 % weight	OECD 301B - Mod. Sturm or CO2

## 12.3. Bioaccumulative potential

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
CYCLOHEXA NE	110-82-7	Experimental BCF-Carp	56 days	Bioaccumulatio n Factor	129	OECD 305E-Bioaccum Fl-thru fis
Xylene	1330-20-7	Experimental BCF - Rainbow Trout	56 days	Bioaccumulatio n Factor	25.9	Non-standard method
Ethylbenzene	100-41-4	Experimental BCF - Rainbow Trout	56 days	Bioaccumulatio n Factor	25.9	Non-standard method
ETHYL ALCOHOL	64-17-5	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	-0.35	Non-standard method
ACRYLATE POLYMER	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
CHLORINAT ED RUBBER	68609-36-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
O-XYLENE	95-47-6	Experimental Bioconcentrati on		Log of Octanol/H2O part. coeff	3.12	Non-standard method

ETHYL	141-78-6	Experimental		Log of	0.68	Non-standard method
ACETATE		Bioconcentrati		Octanol/H2O		
		on		part. coeff		
Isopropyl	67-63-0	Experimental		Log of	0.05	Non-standard method
Alcohol		Bioconcentrati		Octanol/H2O		
		on		part. coeff		
4,4'-	25068-38-6	Estimated		Log of	3.242	Non-standard method
isopropylidene		Bioconcentrati		Octanol/H2O		
diphenol-		on		part. coeff		
epichlorohydri						
n polymer						
METHYL	67-56-1	Experimental		Log of	-0.77	Non-standard method
ALCOHOL		Bioconcentrati		Octanol/H2O		
		on		part. coeff		
TOLUENE	108-88-3	Experimental	72 hours	Bioaccumulatio	90	
		BCF - Other		n Factor		
TOLUENE	108-88-3	Experimental		Log of	2.73	
		Bioconcentrati		Octanol/H2O		
		on		part. coeff		
CHLOROBEN	108-90-7	Experimental	56 days	Bioaccumulatio	39.6	OECD 305E-Bioaccum
ZENE		BCF-Carp		n Factor		Fl-thru fis
Cumene	98-82-8	Estimated		Bioaccumulatio	140	Non-standard method
		Bioconcentrati		n Factor		
		on				
MALEIC	108-31-6	Experimental		Log of	-2.61	Non-standard method
ANHYDRIDE		Bioconcentrati		Octanol/H2O		
		on		part. coeff		

## 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: (Cyclohexane, Xylene)

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: (Cyclohexane, Xylene)

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. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

## **SECTION 16: Other information**

DISCLAIMER: The information on this Safety Data Sheet 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 Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Malaysia SDSs are available at www.3M.com.my