

Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the GHS guidelines & India Hazardous substances (Classification, Labeling & Packaging) Draft Rules 2011.

SECTION 1: Identification

1.1. Product identifier

3M Underseal

Product Identification Numbers

IA-2601-0041-6

1.2. Recommended use and restrictions on use

Recommended use

Automotive.

1.3. Supplier's details

Address: 3M India Limited, plot-48-51, Electronic city, Hosur road, Bangalore-560100

Telephone: 080-45543000, contact Product EHS team

E Mail: productehs.in@mmm.com
Website: http://solutions.3mindia.co.in

1.4. Emergency telephone number

080-45543000 (Contact hours: 8:00 AM to 5:00 PM)

SECTION 2: Hazard identification

Under MSIHC Rules, information is noted below on flammability, acute toxicity and explosivity relevant to this product. In line with international standards, information on other hazard classes and associated precautionary statements relevant to this product are included as well.

2.1. Classification of the substance or mixture

Flammable liquid: Category 3.

Acute Toxicity (inhalation): Category 5. Skin Corrosion/Irritation: Category 2. Serious Eye Damage/Irritation: Category 1.

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1A. Carcinogenicity: Category 1A. Reproductive Toxicity: Category 1B.

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

Specific Target Organ Toxicity (repeated exposure): Category 1. Specific Target Organ Toxicity (single exposure): Category 3.

Acute Aquatic Toxicity: Category 2. Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal Word

Danger

Symbols

Flame | Corrosion | Exclamation mark | Health Hazard | Environment |

Pictograms











HAZARD STATEMENTS:

H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H333 May be harmful if inhaled.

H317 May cause an allergic skin reaction.

H350 May cause cancer.

H360 May damage fertility or the unborn child. H336 May cause drowsiness or dizziness.

H370 Causes damage to organs: sensory organs.

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

respiratory system.

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

organs.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201 Obtain special instructions before use.

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

No smoking.

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

P273 Avoid release to the environment.

P280I Wear protective gloves, eye/face protection, and respiratory protection.

Response:

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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

P310 Immediately call a POISON CENTER or doctor/physician.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

3M Underseal

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or

doctor/physician.

P370 + P378 In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry

chemical or carbon dioxide to extinguish.

P391 Collect spillage.

2.3. Other hazards

Aspiration classification does not apply due to the viscosity of the product.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
Quartz	14808-60-7	25 - 45
TURPENTINE	8006-64-2	10 - 25
Distillates (petroleum), hydrotreated light	64742-47-8	5 - 25
ZIRCONIUM ALKONATE	22464-99-9	< 10
Oleic acid	112-80-1	< 10
Phthalic anhydride	85-44-9	< 10
Glycerol	56-81-5	1 - 5
Iron hydroxide oxide	20344-49-4	1 - 5
Rosin	8050-09-7	< 5
Kaolinite	1318-74-7	< 5
POLYAMINE AMIDE SALT	Trade Secret	< 3
Xylene	1330-20-7	< 3
Water	7732-18-5	0.1 - 1.5
Maleic anhydride	108-31-6	< 0.5
Ethylbenzene	100-41-4	< 0.5

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

Rinse mouth. If you feel unwell, get medical attention.

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

Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). 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

Substance	<u>Condition</u>
Aldehydes.	During combustion.
Hydrocarbons.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Irritant vapours or gases.	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 dykes 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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

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/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (eg. gloves, respirators...) 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 oxidising 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	CAS Nbr	Agency	Limit type	Additional comments
Ethylbenzene	100-41-4	ACGIH	TWA:20 ppm	A3: Confirmed animal
				carcin., Ototoxicant
Maleic anhydride	108-31-6	ACGIH	TWA(inhalable fraction and	A4: Not class. as human
-			vapor):0.01 mg/m3	carcin,
				Dermal/Respiratory
				Sensitizer
Aluminum, insoluble compounds	1318-74-7	ACGIH	TWA(respirable fraction):1	A4: Not class. as human
			mg/m3	carcin
Xylene	1330-20-7	ACGIH	TWA:20 ppm	A4: Not class. as human
				carcin
Quartz	14808-60-7	ACGIH	TWA(respirable	A2: Suspected human
			fraction):0.025 mg/m3	carcin.
Carbonic Acid, Zirconium	22464-99-9	ACGIH	TWA(as Zr):5	A4: Not class. as human
Complex			mg/m3;STEL(as Zr):10 mg/m3	
JET FUELS (NON-AEROSOL),	64742-47-8	ACGIH	TWA(as total hydrocarbon	A3: Confirmed animal
AS TOTAL HYDROCARBON			vapor, non-aerosol):200	carcin., SKIN
VAPOR			mg/m3	
Kerosine (petroleum)	64742-47-8	ACGIH	TWA(as total hydrocarbon	A3: Confirmed animal
			vapor, non-aerosol):200	carcin., SKIN
			mg/m3	
TURPENTINE	8006-64-2	ACGIH	TWA:20 ppm	A4: Not class. as human
				carcin, Dermal
				Sensitizer
Rosin	8050-09-7	ACGIH	TWA(as Resin, inhalable	Dermal/Respiratory
			fraction):0.001 mg/m3	Sensitizer
Phthalic anhydride	85-44-9	ACGIH	TWA(inhalable fraction and	A4: Not class. as human
			vapor):0.002	carcin,
			mg/m3;STEL(inhalable	Dermal/Respiratory
			fraction and vapor):0.005	Sensitizer, SKIN;
			mg/m3;TLV-Surface	Resp+Dermal sensitizer
			Limit(inhalable fraction and	
			vapor):0.05 mg/100 cm2	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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/vapours/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:

Full face shield.

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:

Full facepiece air-purifying respirator suitable for organic vapours and particulates

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	Black	
Odor	Mineral spirits	
Odour threshold	Not applicable.	
pH	Not applicable.	
Melting point/Freezing point: NA	No data available.	
Boiling point/Initial boiling point/Boiling range	138 °C	
Flash point	45 °C [Test Method:Closed Cup]	
Evaporation rate	Not applicable.	
Flammability	Flammable liquid: Category 3.	
Flammable Limits(LEL)	Not applicable.	

Flammable Limits(UEL)	Not applicable.
Vapour pressure	Not applicable.
Relative Vapor Density	Not applicable.
Density	1.1 - 1.25 kg/l [<i>Details</i> :25 deg C]
Relative density	Not applicable.
Water solubility	Not applicable.
Solubility- non-water	Not applicable.
Partition coefficient: n-octanol/water	Not applicable.
Autoignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Kinematic Viscosity	3,478 mm ² /sec
Volatile organic compounds (VOC)	No data available.
Percent volatile	No data available.
VOC less H2O & exempt solvents	No data available.

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 polymerisation will not occur.

10.4 Conditions to avoid

Direct sunlight

Heat.

Sparks and/or flames.

Temperatures above 45 °C (113 °F)

Temperatures above the boiling point.

10.5 Incompatible materials

Strong oxidising 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 labelling, 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. Allergic respiratory reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. 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

Corrosive (eye burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. 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:

Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease. Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests. 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 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.

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
Quartz	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz	Ingestion		LD50 estimated to be > 5,000 mg/kg
TURPENTINE	Dermal	Rabbit	LD50 > 2,000 mg/kg
TURPENTINE	Inhalation-	Rat	LC50 13.7 mg/l

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	Vapor (4 hours)		
TURPENTINE	Ingestion	Rat	LD50 3,956 mg/kg
Distillates (petroleum), hydrotreated light	Inhalation- Vapor	Professio nal judgeme nt	LC50 estimated to be 20 - 50 mg/l
Distillates (petroleum), hydrotreated light	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 3 mg/l
Distillates (petroleum), hydrotreated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light	Dermal	similar compoun ds	LD50 > 2,000 mg/kg
Oleic acid	Dermal	Guinea pig	LD50 > 3,000 mg/kg
Oleic acid	Ingestion	Rat	LD50 57,000 mg/kg
Phthalic anhydride	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.14 mg/l
Phthalic anhydride	Ingestion	Rat	LD50 1,530 mg/kg
ZIRCONIUM ALKONATE	Dermal	similar compoun ds	LD50 > 2,000 mg/kg
ZIRCONIUM ALKONATE	Inhalation- Dust/Mist (4 hours)	similar compoun ds	LC50 > 4.3 mg/l
ZIRCONIUM ALKONATE	Ingestion	similar compoun ds	LD50 2,043 mg/kg
Kaolinite	Dermal		LD50 estimated to be > 5,000 mg/kg
Kaolinite	Ingestion	Human	LD50 > 15,000 mg/kg
Glycerol	Dermal	Rabbit	LD50 estimated to be > 5,000 mg/kg
Glycerol	Ingestion	Rat	LD50 > 5,000 mg/kg
Rosin	Dermal	Rabbit	LD50 > 2,500 mg/kg
Rosin	Ingestion	Rat	LD50 7,600 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
Iron hydroxide oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Iron hydroxide oxide	Ingestion	Rat	LD50 > 10,000 mg/kg
Maleic anhydride	Dermal	Rabbit	LD50 2,620 mg/kg
Maleic anhydride	Ingestion	Rat	LD50 1,030 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

 \overline{ATE} = acute toxicity estimate

Skin Corrosion/Irritation

Skin Corrosion/irritation		
Name	Species	Value
Quartz	Professio	No significant irritation
	nal	
	judgemen	
	t	
TURPENTINE	In vitro	Irritant
	data	
Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
Oleic acid	Rabbit	Minimal irritation
Phthalic anhydride	Human	Irritant
ZIRCONIUM ALKONATE	Rabbit	No significant irritation

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4 1	na	erseal

Kaolinite	Professio nal judgemen t	No significant irritation
Glycerol	Rabbit	No significant irritation
Rosin	Rabbit	No significant irritation
Xylene	Rabbit	Mild irritant
Iron hydroxide oxide	Rabbit	No significant irritation
Maleic anhydride	Human	Corrosive
	and	
	animal	
Ethylbenzene	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
TURPENTINE	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated light	Rabbit	Mild irritant
Oleic acid	Rabbit	Mild irritant
Phthalic anhydride	Human	Corrosive
ZIRCONIUM ALKONATE	Rabbit	No significant irritation
Kaolinite	Professio	No significant irritation
	nal	
	judgemen	
	t	
Glycerol	Rabbit	No significant irritation
Rosin	Rabbit	Mild irritant
Xylene	Rabbit	Mild irritant
Iron hydroxide oxide	Rabbit	No significant irritation
Maleic anhydride	Rabbit	Corrosive
Ethylbenzene	Rabbit	Moderate irritant

Sensitization:

Skin Sensitisation

Name	Species	Value
TURPENTINE	Multiple animal species	Sensitising
Distillates (petroleum), hydrotreated light	Guinea pig	Not classified
Phthalic anhydride	Human and animal	Sensitising
ZIRCONIUM ALKONATE	similar compoun ds	Not classified
Glycerol	Guinea pig	Not classified
Rosin	Guinea pig	Sensitising
Iron hydroxide oxide	Human and animal	Not classified
Maleic anhydride	Multiple animal species	Sensitising
Ethylbenzene	Human	Not classified

Respiratory Sensitisation

Name	Species	Value
Phthalic anhydride	Human	Sensitising

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Rosin	Human	Not classified
Maleic anhydride	Human	Sensitising

Germ Cell Mutagenicity

Name	Route	Value
Quartz	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz	In vivo	Some positive data exist, but the data are not sufficient for classification
TURPENTINE	In Vitro	Not mutagenic
Distillates (petroleum), hydrotreated light	In Vitro	Not mutagenic
Oleic acid	In Vitro	Some positive data exist, but the data are not sufficient for classification
Phthalic anhydride	In Vitro	Not mutagenic
Xylene	In Vitro	Not mutagenic
Xylene	In vivo	Not mutagenic
Maleic anhydride	In vivo	Not mutagenic
Maleic anhydride	In Vitro	Some positive data exist, but the data are not sufficient for classification
Ethylbenzene	In vivo	Not mutagenic
Ethylbenzene	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Quartz	Inhalation	Human	Carcinogenic.
		and	
		animal	
Distillates (petroleum), hydrotreated light	Dermal	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Oleic acid	Dermal	Mouse	Not carcinogenic
Oleic acid	Ingestion	Rat	Not carcinogenic
Oleic acid	Not	Multiple	Not carcinogenic
	specified.	animal	
		species	
Phthalic anhydride	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Kaolinite	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
Glycerol	Ingestion	Mouse	Some positive data exist, but the data are not
			sufficient for classification
Xylene	Dermal	Rat	Not carcinogenic
Xylene	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
Xylene	Inhalation	Human	Some positive data exist, but the data are not
			sufficient for classification
Iron hydroxide oxide	Inhalation	Rat	Not carcinogenic
Ethylbenzene	Inhalation	Multiple	Carcinogenic.
•		animal	
		species	

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
TURPENTINE	Ingestion	Not classified for development	Rat	NOAEL 250 mg/kg/day	during organogenesis
ZIRCONIUM ALKONATE	Ingestion	Not classified for female reproduction	similar compoun ds	NOAEL 800 mg/kg/day	1 generation

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ZIRCONIUM ALKONATE	Ingestion	Not classified for male reproduction	similar compoun ds	NOAEL 800 mg/kg/day	1 generation
ZIRCONIUM ALKONATE	Ingestion	Toxic to development	similar compoun ds	NOAEL 100 mg/kg/day	during organogenesis
Glycerol	Ingestion	Not classified for female reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for male reproduction	Rat	NOAEL 2,000 mg/kg/day	2 generation
Glycerol	Ingestion	Not classified for development	Rat	NOAEL 2,000 mg/kg/day	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
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
Ethylbenzene	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	premating & during gestation

Lactation

Name	Route	Species	Value
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
TURPENTINE	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
TURPENTINE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
TURPENTINE	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
Distillates (petroleum), hydrotreated light	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Distillates (petroleum), hydrotreated light	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Distillates (petroleum), hydrotreated light	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
Phthalic anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	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	

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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
Maleic anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
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	
Ethylbenzene	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Quartz	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
TURPENTINE	Inhalation	liver immune system respiratory system	Not classified	Rat	NOAEL 2.2 mg/l	14 weeks
TURPENTINE	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 0.14 mg/l	14 weeks
Oleic acid	Ingestion	liver immune system	Not classified	Rat	NOAEL 2,250 mg/kg/day	108 weeks
Oleic acid	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 2,550 mg/kg/day	108 weeks
Phthalic anhydride	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 2,340 mg/kg/day	2 years
Phthalic anhydride	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 1,717 mg/kg/day	2 years
Phthalic anhydride	Ingestion	nervous system heart skin hematopoietic system immune system kidney and/or bladder respiratory system	Not classified	Mouse	NOAEL 4,670 mg/kg/day	2 years
Kaolinite	Inhalation	pneumoconiosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL NA	occupational exposure
Kaolinite	Inhalation	pulmonary fibrosis	Not classified	Rat	NOAEL Not available	
Glycerol	Inhalation	respiratory system heart liver kidney and/or bladder	Not classified	Rat	NOAEL 3.91 mg/l	14 days
Glycerol	Ingestion	endocrine system hematopoietic system liver kidney and/or bladder	Not classified	Rat	NOAEL 10,000 mg/kg/day	2 years
Xylene	Inhalation	nervous system	Causes damage to organs through	Rat	LOAEL 0.4	4 weeks

			prolonged or repeated exposure		mg/l	
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
Iron hydroxide oxide	Inhalation	respiratory system liver kidney and/or bladder	Not classified	Rat	NOAEL 0.2 mg/l	14 days
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
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	5 days

					mg/l	
Ethylbenzene	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3	103 weeks
					mg/l	
Ethylbenzene	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3	2 years
					mg/l	
Ethylbenzene	Inhalation	bone, teeth, nails,	Not classified	Multiple	NOAEL 4.2	90 days
		and/or hair		animal	mg/l	
		muscles		species		
Ethylbenzene	Inhalation	heart immune	Not classified	Multiple	NOAEL 3.3	2 years
		system respiratory		animal	mg/l	
		system		species		
Ethylbenzene	Ingestion	liver kidney and/or	Not classified	Rat	NOAEL 680	6 months
		bladder			mg/kg/day	

Aspiration Hazard

Name	Value
TURPENTINE	Aspiration hazard
Distillates (petroleum), hydrotreated light	Aspiration hazard
Xylene	Aspiration hazard
Ethylbenzene	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 labelling, 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 2: Toxic to aquatic life.

Chronic aquatic hazard:

GHS Chronic 2: Toxic to aquatic life with long lasting effects.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Quartz	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Quartz	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Quartz	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l
Quartz	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Estimated	72 hours	EC50	1 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Rainbow trout	Estimated	96 hours	LL50	2 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Water flea	Estimated	48 hours	EL50	1.4 mg/l
Distillates (petroleum), hydrotreated light	64742-47-8	Green algae	Estimated	72 hours	NOEL	1 mg/l
Distillates (petroleum),	64742-47-8	Water flea	Estimated	21 days	NOEL	0.48 mg/l

hydrotreated light					1	
TURPENTINE	8006-64-2	Common Carp	Analogous	96 hours	LC50	0.27 mg/l
TORGENTINE	0000 04 2	Common curp	Compound	70 Hours	Leso	0.27 mg/1
TURPENTINE	8006-64-2	Green algae	Analogous Compound	48 hours	ErC50	1.44 mg/l
TURPENTINE	8006-64-2	Water flea	Analogous	48 hours	EC50	0.475 mg/l
01 : :1	112.00.1	NT/A	Compound	NT/A	NT/A	NT/A
Oleic acid	112-80-1	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Phthalic anhydride	85-44-9	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
Phthalic anhydride	85-44-9	Green algae	Experimental	72 hours	EC50	48 mg/l
Phthalic anhydride	85-44-9	Water flea	Experimental	48 hours	EC50	71 mg/l
Phthalic anhydride	85-44-9	Green algae	Experimental	72 hours	NOEC	9.5 mg/l
Phthalic anhydride	85-44-9	Rainbow trout	Experimental	60 days	NOEC	10 mg/l
Phthalic anhydride	85-44-9	Water flea	Experimental	21 days	NOEC	16 mg/l
ZIRCONIUM	22464-99-9	Bacteria	Analogous	17 hours	EC50	110 mg/l
ALKONATE			Compound			
ZIRCONIUM ALKONATE	22464-99-9	Green algae	Analogous Compound	72 hours	EC50	500 mg/l
ZIRCONIUM ALKONATE	22464-99-9	Medaka	Analogous Compound	96 hours	LC50	>100 mg/l
ZIRCONIUM ALKONATE	22464-99-9	Zebra Fish	Analogous Compound	96 hours	LL50	>100 mg/l
ZIRCONIUM ALKONATE	22464-99-9	Water flea	Experimental	48 hours	EC50	>100 mg/l
ZIRCONIUM ALKONATE	22464-99-9	Green algae	Analogous Compound	72 hours	NOEC	130 mg/l
ZIRCONIUM	22464-99-9	Water flea	Analogous	21 days	NOEC	18 mg/l
ALKONATE	56.01.5	D : I	Compound	061	1.050	54.000 //
Glycerol	56-81-5	Rainbow trout	Experimental	96 hours	LC50	54,000 mg/l
Glycerol	56-81-5	Water flea	Experimental	48 hours	LC50	1,955 mg/l
Glycerol	56-81-5	Bacteria	Experimental	16 hours	NOEC	10,000 mg/l
Iron hydroxide oxide	20344-49-4	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Iron hydroxide oxide	20344-49-4	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
Iron hydroxide oxide	20344-49-4	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
Iron hydroxide oxide	20344-49-4	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Iron hydroxide oxide	20344-49-4	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	>100 mg/l
Iron hydroxide oxide	20344-49-4	Activated sludge	Analogous Compound	3 hours	EC50	>1,000 mg/l
Kaolinite	1318-74-7	N/A		N/A	N/A	N/A
Rosin	8050-09-7	Bacteria	Experimental	N/A	EC50	76.1 mg/l
Rosin	8050-09-7	Green algae	Experimental	72 hours	EL50	>100 mg/l
Rosin	8050-09-7	Water flea	Experimental	48 hours	EL50	911 mg/l
Rosin	8050-09-7	Zebra Fish	Experimental	96 hours	LL50	>1 mg/l
Rosin	8050-09-7	Green algae	Experimental	72 hours	NOEL	100 mg/l
Xylene	1330-20-7	Activated sludge	Estimated	3 hours	NOEC	157 mg/l
Xylene	1330-20-7	Green algae	Estimated	72 hours	EC50	4.36 mg/l
Xylene	1330-20-7	Rainbow trout	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	Water flea	Estimated	7 days	NOEC	0.96 mg/l
Xylene	1330-20-7	Rainbow trout	Experimental	56 days	NOEC	>1.3 mg/l
Ethylbenzene	100-41-4	Activated sludge	Experimental	49 hours	EC50	130 mg/l
Ethylbenzene	100-41-4	Atlantic Silverside	Experimental	96 hours	LC50	5.1 mg/l
Ethylbenzene	100-41-4	Green algae	Experimental	96 hours	EC50	3.6 mg/l
Ethylbenzene	100-41-4	Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l
						<u> </u>
Ethylbenzene	100-41-4	Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l

Ethylbenzene	100-41-4	Water flea	Experimental	7 days	NOEC	0.96 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 Nbr	Test type	Duration	Study Type	Test result	Protocol
Quartz	14808-60-7	Data not available- insufficient	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available- insufficient	N/A	N/A	N/A	N/A
TURPENTINE	8006-64-2	Analogous Compound Biodegradation	28 days	BOD	68 %BOD/ThOD	OECD 301D - Closed bottle test
TURPENTINE	8006-64-2	Analogous Compound Photolysis		Photolytic half-life (in air)	7.2 hours (t 1/2)	
Oleic acid	112-80-1	Experimental Biodegradation	28 days	BOD	78 %BOD/ThOD	OECD 301C - MITI test (I)
Phthalic anhydride	85-44-9	Experimental Biodegradation	14 days	BOD	85.2 %BOD/ThOD	similar to OECD 301C
Phthalic anhydride	85-44-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	0.51 minutes (t 1/2)	
ZIRCONIUM ALKONATE	22464-99-9	Experimental Biodegradation	28 days	CO2 evolution	73.82 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Modified sturm or CO2
Glycerol	56-81-5	Experimental Biodegradation	14 days	BOD	63 %BOD/ThOD	OECD 301C - MITI test (I)
Iron hydroxide oxide	20344-49-4	Data not available- insufficient	N/A	N/A	N/A	N/A
Kaolinite	1318-74-7	Data not available- insufficient	N/A	N/A	N/A	N/A
Rosin	8050-09-7	Experimental Biodegradation	28 days	CO2 evolution	64 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Xylene	1330-20-7	Experimental Biodegradation	28 days	BOD	90- 98 %BOD/ThOD	OECD 301F - Manometric respirometry
Xylene	1330-20-7	Experimental Photolysis		Photolytic half-life (in air)	1.4 days (t 1/2)	
Ethylbenzene	100-41-4	Experimental Biodegradation	28 days	CO2 evolution	70-80 %CO2 evolution/THCO2 evolution	ISO 14593 Inorg C Headspace
Ethylbenzene	100-41-4	Experimental Photolysis		(in air)	4.26 days (t 1/2)	
Maleic anhydride	108-31-6	Hydrolysis product	25 days	CO2 evolution	>90 %CO2 evolution/THCO2 evolution	OECD 301B - Modified 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 Nbr	Test type	Duration	Study Type	Test result	Protocol
Quartz	14808-60-7	Data not available or insufficient for classification		N/A	N/A	N/A
Distillates (petroleum), hydrotreated light	64742-47-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
TURPENTINE	8006-64-2	Modeled Bioconcentration		Bioaccumulation factor	1700	Catalogic™
TURPENTINE	8006-64-2	Analogous Compound Bioconcentration		Log Kow	4.44	similar to OECD 117
Oleic acid	112-80-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Phthalic anhydride	85-44-9	Experimental Bioconcentration		Log Kow	1.6	
ZIRCONIUM ALKONATE	22464-99-9	Estimated Bioconcentration		Log Kow	2.96	
Glycerol	56-81-5	Experimental Bioconcentration		Log Kow	-1.75	similar to OECD 107
Iron hydroxide oxide	20344-49-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Kaolinite	1318-74-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Rosin	8050-09-7	Analogous Compound BCF - Fish	20 days	Bioaccumulation factor	129	
Xylene	1330-20-7	Experimental BCF - Fish	56 days	Bioaccumulation factor	25.9	
Ethylbenzene	100-41-4	Experimental BCF - Fish	42 days	Bioaccumulation factor	1	
Maleic anhydride	108-31-6	Experimental Bioconcentration		Log Kow	-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

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

Air Transport (IATA)Regulations

UN No UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Contains Solvents)

Hazard Classs/Division 3

3M Underseal

Subsidiary Risk Not applicable

Packing Group: III

Marine Transport (IMDG)

UN No UN1993

Proper Shipping Name FLAMMABLE LIQUID, N.O.S. (Contains Solvents)

Hazard Classs/Division 3
Subsidiary Risk Not applicable

Packing Group: III

Environmental Hazards: Not applicable

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.

Applicable Environmental, Health and Safety Regulations

The Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 Hazardous Waste(Management, Handling & Transboundary) Rules, 2008 Hazardous Chemicals (Classification, Packaging and Labelling Draft Rules), 2011 Central Motor Vehicle Rules, 1989

The following ingredients are listed as hazardous on Part II of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules

Ethylbenzene

Maleic anhydride

Phthalic anhydride

TURPENTINE

Carbonic Acid, Zirconium Complex

The following ingredients are classified as hazardous based on the criteria listed under Part I of Schedule I of the India Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) rules:

The product is classified as Highly Flammable liquid as per MSIHC Rules, 1989.

SECTION 16: Other information

NFPA Hazard Classification

Health: 3 Flammability: 2 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision information:

Label: GHS Classification information was modified.

Label: GHS Environmental Hazard Statements information was modified.

Section 2: Ingredient table information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 09: Vapor Density Value information was modified.

Section 10: Materials to avoid physical property information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was modified.

Section 11: Carcinogenicity Table information was modified.

3M Underseal

- Section 11: Germ Cell Mutagenicity Table information was modified.
- Section 11: Prolonged or repeated exposure may cause standard phrases information was modified.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Serious Eye Damage/Irritation Table information was modified.
- Section 11: Skin Corrosion/Irritation Table information was modified.
- Section 11: Skin Sensitization Table information was modified.
- Section 11: Target Organs Repeated Table information was modified.
- Section 11: Target Organs Single Table information was modified.
- Section 12: Acute aquatic hazard information information was modified.
- Section 12: Chronic aquatic hazard information information was modified.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified. Section 12:Bioccumulative potential information information was modified.
- Section 15: MSIHC Ingredients information was modified.

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 India, you are responsible to comply with all applicable regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration/notification.

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