

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

3MTM Screen Print UV Gloss Clear 9760LX

Product Identification Numbers

75-3472-7553-1 75-3472-7554-9

1.2. Recommended use and restrictions on use

Recommended use

Experimental use only, Clear coat for latex inks

1.3. Supplier's details

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

Telephone: 080-39143000, contact Product EHS team

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

1.4. Emergency telephone number

080-39143000 (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

Acute Toxicity (oral): Category 4. Acute Toxicity (dermal): Category 4.

Serious Eye Damage/Irritation: Category 2A

Skin Corrosion/Irritation: Category 2.

Skin Sensitizer: Category 1.

Reproductive Toxicity: Category 1B.

Specific Target Organ Toxicity (repeated exposure): Category 2.

Acute Aquatic Toxicity: Category 1. Chronic Aquatic Toxicity: Category 2.

2.2. Label elements

Signal Word

DANGER!

Symbols

Exclamation mark | Health Hazard | Environment |





HAZARD STATEMENTS:

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H319 Causes serious eye irritation.
H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H360 May damage fertility or the unborn child.

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

skin

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201 Obtain special instructions before use.

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

P280E Wear protective gloves.

P281 Use personal protective equipment as required.

P273 Avoid release to the environment.

Response:

P302 + P352

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 ON SKIN: Wash with plenty of soap and water.

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

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel

unwell.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with applicable

local/regional/national/international regulations.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	CAS Nbr	% by Wt
N,N-Dimethylacrylamide	2680-03-7	15 - 40
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl	5888-33-5	0 - 30
acrylate		
Aliphatic urethane acrylate	Trade Secret	5 - 30
1,6-hexanediol diacrylate	13048-33-4	1 - 20
2-(2-Ethoxyethoxy)ethyl acrylate	7328-17-8	0 - 20
ACRLYIC COPOLYMER	Trade Secret	0 - 20
Vinyl acetate - vinyl alcohol - vinyl chloride	25086-48-0	0 - 15
polymer		
Amine modified acrylate oligomer	Trade Secret	0 - 15
Hydroxycyclohexyl phenyl ketone	947-19-3	3 - 10
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	75980-60-8	0 - 10
oxide		
Ethanol, 2-amino-, reaction products with	191743-75-6	0 - 5
cyclohexane and peroxidized N-butyl-		
2,2,6,6-tetramethyl-4-piperidinamine-2,4,6-		
trichloro-1,3,5-triazine reaction products		
N,N'-Bis(2,2,6,6-tetramethyl-4-piperidinyl)-	193098-40-7	0 - 5
1,6-hexanediamine, polymers with		
morpholine-2,4,6-trichloro-1,3,5-triazine		
reaction products, methylated		
UV stabilizer	Trade Secret	0 - 5
UV stabilizer	Trade Secret	0 - 5
2-Phenoxyethyl acrylate	48145-04-6	0 - 3
Siloxanes and Silicones, 3-[3-(acetyloxy)-2-	125455-51-8	0 - 2
hydroxypropoxy]propyl Me, di-Me, 3-[2-		
hydroxy-3-[(1-oxo-2-		
propenyl)oxy]propoxy]propyl Me		
Siloxanes and silicones, di-Me	63148-62-9	0 - 2
NJTSRN 800963-5366	Trade Secret	0 - 2
SILICONPOLYETHER ACRYLATE	Trade Secret	0 - 2
Bis(2,6-diisopropylphenyl)carbodiimide	2162-74-5	0 - 1
CAMPHENE	79-92-5	< 0.5
Toluene	108-88-3	< 0.5
Benzene	71-43-2	< 0.05
Phenothiazine	92-84-2	0 0.01

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.

Eve contact

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. 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

See Section 11.1 Information on toxicological effects

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 ordinary combustible material such as water or foam 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

SubstanceConditionFormaldehydeDuring combustion.Carbon monoxide.During combustion.Carbon dioxide.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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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. 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. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. Seal the container. Dispose of collected material as soon as possible.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not handle until all safety precautions have been read and understood. 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.) Use personal protective equipment (eg. gloves, respirators...) as required.

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. 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
Toluene	108-88-3	ACGIH	TWA:20 ppm	A4: Not class. as human
				carcin
1,6-hexanediol diacrylate	13048-33-4	AIHA	TWA:1 mg/m3(0.11 ppm)	Dermal Sensitizer
N,N-Dimethylacrylamide	2680-03-7	Manufacturer determined	TWA:0.1 mg/m3(0.025 ppm)	SKIN
Benzene	71-43-2	ACGIH	TWA:0.5 ppm;STEL:2.5 ppm	SKIN, A1: Confirmed human carcin.
Phenothiazine	92-84-2	ACGIH	TWA:5 mg/m3	SKIN

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.

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

f 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 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.

Clear Liquid with Acrylate odor Appearance/Odour

Odour threshold No data available. pН No data available. Melting point/Freezing point: NA No data available.

Boiling point/Initial boiling point/Boiling range >=93.3 °C >=93.3 °C Flash point

Evaporation rate <=1 g/cm²-hr [Test Method: Estimated] [Ref Std: WATER=1]

Flammability (solid, gas) Not applicable. Flammable Limits(LEL) No data available. Flammable Limits(UEL) No data available. No data available. Vapour pressure Vapour density No data available.

Density 1.3 g/ml

Relative density 1.3 [*Ref Std*:WATER=1]

Moderate Water solubility Moderate Solubility- non-water

No data available. Partition coefficient: n-octanol/water **Autoignition temperature** No data available. **Decomposition temperature** No data available. Viscosity No data available. Average particle size Not applicable. **Bulk density** No data available. Molecular weight No data available. Volatile organic compounds (VOC) No data available. Percent volatile No data available. **Softening point** Not applicable. 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 may occur. Upon depletion of inhibitor or exposure to heat

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong oxidising agents.

No data available.

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

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

Harmful in contact with skin. 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. 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

Harmful if swallowed.

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

Additional Health Effects:

Prolonged or repeated exposure may cause target organ effects:

Dermal effects: Signs/symptoms may include redness, itching, acne, or bumps on the skin.

Reproductive/Developmental Toxicity:

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

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 ATE1,000 - 2,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE300 - 2,000 mg/kg
N,N-Dimethylacrylamide	Dermal	Rat	LD50 907 mg/kg
N,N-Dimethylacrylamide	Ingestion	Rat	LD50 252 mg/kg
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Ingestion	Rat	LD50 4,350 mg/kg
2-(2-Ethoxyethoxy)ethyl acrylate	Dermal		LD50 estimated to be 1,000 - 2,000 mg/kg
2-(2-Ethoxyethoxy)ethyl acrylate	Ingestion	Rat	LD50 1,860 mg/kg
1,6-hexanediol diacrylate	Dermal	Rabbit	LD50 3,636 mg/kg
1,6-hexanediol diacrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Vinyl acetate - vinyl alcohol - vinyl chloride polymer	Dermal	Rabbit	LD50 > 8,000 mg/kg
Vinyl acetate - vinyl alcohol - vinyl chloride polymer	Ingestion	Rat	LD50 > 8,000 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Dermal	Professio nal judgeme nt	LD50 estimated to be > 5,000 mg/kg
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydroxycyclohexyl phenyl ketone	Dermal	Rat	LD50 > 5,000 mg/kg
Hydroxycyclohexyl phenyl ketone	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 1 mg/l
Hydroxycyclohexyl phenyl ketone	Ingestion	Rat	LD50 2,500 mg/kg
Siloxanes and silicones, di-Me	Dermal	Rabbit	LD50 > 19,400 mg/kg
2-Phenoxyethyl acrylate	Dermal	Rat	LD50 > 2,000 mg/kg
2-Phenoxyethyl acrylate	Ingestion	Rat	LD50 > 5,000 mg/kg
Siloxanes and silicones, di-Me	Ingestion	Rat	LD50 > 17,000 mg/kg
Bis(2,6-diisopropylphenyl)carbodiimide	Dermal	Rat	LD50 > 2,000 mg/kg
Bis(2,6-diisopropylphenyl)carbodiimide	Ingestion	Rat	LD50 >300, <2000 mg/kg
Toluene	Dermal	Rat	LD50 12,000 mg/kg
Toluene	Inhalation- Vapor (4 hours)	Rat	LC50 30 mg/l
Toluene	Ingestion	Rat	LD50 5,550 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
N,N-Dimethylacrylamide	Rabbit	No significant irritation
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Rabbit	Minimal irritation
2-(2-Ethoxyethoxy)ethyl acrylate	Rabbit	Irritant
1,6-hexanediol diacrylate	Rabbit	Irritant
Vinyl acetate - vinyl alcohol - vinyl chloride polymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Rabbit	No significant irritation
Hydroxycyclohexyl phenyl ketone	Rabbit	No significant irritation
2-Phenoxyethyl acrylate	Rabbit	No significant irritation
Siloxanes and silicones, di-Me	Rabbit	No significant irritation
Toluene	Rabbit	Irritant

Serious Eye Damage/Irritation

Name	Species	Value
N,N-Dimethylacrylamide	Rabbit	Severe irritant
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Rabbit	Mild irritant
2-(2-Ethoxyethoxy)ethyl acrylate	Rabbit	Severe irritant
1,6-hexanediol diacrylate	Rabbit	Moderate irritant
Vinyl acetate - vinyl alcohol - vinyl chloride polymer	Professio	No significant irritation
	nal	
	judgemen	
	t	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Rabbit	No significant irritation
Hydroxycyclohexyl phenyl ketone	Rabbit	Mild irritant
2-Phenoxyethyl acrylate	Rabbit	Moderate irritant
Siloxanes and silicones, di-Me	Rabbit	No significant irritation
CAMPHENE	Rabbit	Moderate irritant
Toluene	Rabbit	Moderate irritant

Skin Sensitisation

Name	Species	Value
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	Mouse	Sensitising
2-(2-Ethoxyethoxy)ethyl acrylate	Guinea	Sensitising
	pig	
1,6-hexanediol diacrylate	Guinea	Sensitising
	pig	
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Mouse	Sensitising
Hydroxycyclohexyl phenyl ketone	Guinea	Not sensitizing
	pig	
2-Phenoxyethyl acrylate	Guinea	Sensitising
	pig	
Toluene	Guinea	Not sensitizing
	pig	

Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
N,N-Dimethylacrylamide	In vivo	Not mutagenic
N,N-Dimethylacrylamide	In Vitro	Some positive data exist, but the data are not sufficient for classification
exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,6-hexanediol diacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	In Vitro	Not mutagenic
Hydroxycyclohexyl phenyl ketone	In Vitro	Not mutagenic
Hydroxycyclohexyl phenyl ketone	In vivo	Not mutagenic
Toluene	In Vitro	Not mutagenic
Toluene	In vivo	Not mutagenic

Carcinogenicity

cui emogement,			
Name	Route	Species	Value
1,6-hexanediol diacrylate	Dermal	Mouse	Not carcinogenic
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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
N,N-Dimethylacrylamide	Dermal	Some positive male reproductive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	13 weeks
1,6-hexanediol diacrylate	Not specified.	Not toxic to development	Rat	NOAEL 750 mg/kg/day	during organogenesis
Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	Ingestion	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	90 days
Hydroxycyclohexyl phenyl ketone	Ingestion	Not toxic to development	Rat	NOAEL 900 mg/kg/day	during gestation
Toluene	Inhalation	Some positive female reproductive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
Toluene	Inhalation	Some positive male reproductive data exist, but the data are not sufficient for classification	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

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
N,N-Dimethylacrylamide	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	Irritation Positive	
N,N-Dimethylacrylamide	Inhalation	central nervous system depression	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
exo-1,7,7- trimethylbicyclo[2.2.1]hept -2-yl acrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	official classifica tion	NOAEL Not available	
1,6-hexanediol diacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
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	Some positive data exist, but the data are not sufficient for classification	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

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
N,N-Dimethylacrylamide	Dermal	heart endocrine system hematopoietic system liver nervous system kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	13 weeks
1,6-hexanediol diacrylate	Dermal	skin	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 70 mg/kg/day	80 weeks

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Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	Ingestion	skin blood liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	90 days
Diphenyl(2,4,6- trimethylbenzoyl)phosphin e oxide	Ingestion	nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	90 days
Hydroxycyclohexyl phenyl ketone	Ingestion	endocrine system liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,000 mg/kg/day	90 days
Hydroxycyclohexyl phenyl ketone	Ingestion	heart blood immune system nervous system	All data are negative	Rat	NOAEL 1,000 mg/kg/day	90 days
Toluene	Inhalation	auditory system nervous system eyes olfactory system	Causes damage to organs through 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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 11.3 mg/l	15 weeks
Toluene	Inhalation	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1.1 mg/l	4 weeks
Toluene	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL Not available	20 days
Toluene	Inhalation	bone, teeth, nails, and/or hair	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	8 weeks
Toluene	Inhalation	hematopoietic system vascular system	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure
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	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 2,500 mg/kg/day	13 weeks
Toluene	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 600 mg/kg/day	14 days
Toluene	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 105 mg/kg/day	28 days
Toluene	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 105 mg/kg/day	4 weeks

Aspiration Hazard

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Name	Value							
Toluene	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 1: Very 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	Туре	Exposure	Test endpoint	Test result
UV stabilizer	Trade Secret	Green algae	Experimental	72 hours	EC50	>100 mg/l
UV stabilizer	Trade Secret	Water flea	Experimental	96 hours	EC50	>100 mg/l
CAMPHENE	79-92-5	Water flea	Experimental	48 hours	LC50	22 mg/l
CAMPHENE	79-92-5	Zebra Fish	Experimental	96 hours	LC50	0.72 mg/l
Siloxanes and	125455-51-8	Water flea	Experimental	48 hours	EC50	>100 mg/l
Silicones, 3-[3-				1.0 2.2 0.2		
(acetyloxy)-2-						
hydroxypropox						
y]propyl Me,						
di-Me, 3-[2-						
hydroxy-3-[(1-						
oxo-2-						
propenyl)oxylp						
ropoxy propyl						
Me						
2-Phenoxyethyl	48145-04-6	Zebra Fish	Experimental	96 hours	LC50	1 mg/l
acrylate			1			
Bis(2,6-	2162-74-5		Data not			
diisopropylphe			available or			
nyl)carbodiimi			insufficient for			
de			classification			
N,N'-	193098-40-7		Data not			
Bis(2,2,6,6-			available or			
tetramethyl-4-			insufficient for			
piperidinyl)-			classification			
1,6-						
hexanediamine,						
polymers with						
morpholine-						
2,4,6-trichloro-						
1,3,5-triazine						
reaction						
products,						
methylated						
exo-1,7,7-	5888-33-5	Green algae	Experimental	72 hours	EC50	1.98 mg/l
trimethylbicycl						
o[2.2.1]hept-2-						
yl acrylate						
exo-1,7,7-	5888-33-5	Zebra Fish	Experimental	96 hours	LC50	0.704 mg/l
trimethylbicycl						
o[2.2.1]hept-2-						

yl acrylate						
exo-1,7,7-	5888-33-5	Water flea	Experimental	48 hours	EC50	1 mg/l
trimethylbicycl	3000 33 3	Water frea	Ехрегиненци	10 Hours	Leso	
o[2.2.1]hept-2-						
yl acrylate						
exo-1,7,7-	5888-33-5	Green Algae	Experimental	72 hours	NOEC	0.405 mg/l
trimethylbicycl	3000 33 3	Green / tigue	Experimental	72 Hours	TOLC	0.403 mg/1
o[2.2.1]hept-2-						
yl acrylate						
exo-1,7,7-	5888-33-5	Water flea	Experimental	21 days	NOEC	0.092 mg/l
trimethylbicycl	3000 33 3	water nea	Experimental	21 days	TOLC	0.072 mg/1
o[2.2.1]hept-2-						
yl acrylate						
Siloxanes and	63148-62-9		Data not			
silicones, di-	03110 02 9		available or			
Me			insufficient for			
1110			classification			
Phenothiazine	92-84-2	Green Algae	Experimental	72 hours	NOEC	0.1 mg/l
Phenothiazine	92-84-2	Water flea	Experimental	48 hours	EC50	0.055 mg/l
Phenothiazine	92-84-2	Green Algae	Experimental	72 hours	EC50	0.74 mg/l
N,N-	2680-03-7		Experimental	72 hours	EC50	>400 mg/l
N,N- Dimethylacryla	2000-03-/	Green Algae	Experimental	/2 Hours	ECSU	-400 IIIg/I
mide						
N,N-	2680-03-7	Water flea	E-manimantal	40 %	EC50	> 120 = /I
	2080-03-7	w ater flea	Experimental	48 hours	EC30	>120 mg/l
Dimethylacryla						
mide	2600 02 7	D - i - i 4 4	F	061	1.050	> 120 /1
N,N-	2680-03-7	Rainbow trout	Experimental	96 hours	LC50	>120 mg/l
Dimethylacryla mide						
UV stabilizer	Trade Secret	Algae	Experimental	96 hours	EC50	>100 mg/l
UV stabilizer	Trade Secret	Water flea	 	48 hours	EC50	•
			Experimental		LC50	>100 mg/l
UV stabilizer	Trade Secret	Rainbow trout	Experimental	96 hours	LC30	>100 mg/l
Vinyl acetate -	25086-48-0		Data not			
vinyl alcohol -			available or			
vinyl chloride			insufficient for			
polymer	101742 75 6		classification	1		
Ethanol, 2-	191743-75-6		Data not			
amino-,		1	available or			
reaction		1	insufficient for			
products with		1	classification			
cyclohexane						
and						
peroxidized N-						
butyl-2,2,6,6-						
tetramethyl-4-						
piperidinamine -2,4,6-						
trichloro-1,3,5-						
triazine						
reaction						
products						
Diphenyl(2,4,6	75980-60-8		Data mat	-	-	
Dipnenyi(2,4,6	/398U-0U-8 		Data not			
trium athr -11- au		1	available or			
trimethylbenzo			insufficient for classification			
yl)phosphine	<u> </u>	<u> </u>	Classification	<u> </u>	<u> </u>	

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oxide						
Diphenyl(2,4,6	75980-60-8	Ricefish	Experimental	48 hours	LC50	6.53 mg/l
trimethylbenzo yl)phosphine oxide						
	75980-60-8	Water flea	Experimental	48 hours	EC50	3.53 mg/l
trimethylbenzo yl)phosphine oxide						
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	75980-60-8	Algae other	Experimental	72 hours	Effect Concentration 10%	1.56 mg/l
2-(2- Ethoxyethoxy) ethyl acrylate	7328-17-8	Water flea	Experimental	48 hours	EC50	10.56 mg/l
2-(2- Ethoxyethoxy) ethyl acrylate	7328-17-8	Green algae	Experimental	72 hours	EC50	21 mg/l
2-(2- Ethoxyethoxy) ethyl acrylate	7328-17-8	Golden Orfe	Experimental	96 hours	LC50	10 mg/l
Toluene	108-88-3	Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
Toluene	108-88-3	Green Algae	Experimental	72 hours	EC50	12.5 mg/l
Toluene	108-88-3	Fish other	Experimental	96 hours	LC50	6.41 mg/l
Toluene	108-88-3	Grass Shrimp	Experimental	48 hours	EC50	15.5 mg/l
Toluene	108-88-3	Water flea	Experimental	48 hours	EC50	3.78 mg/l
Toluene	108-88-3	Water flea	Experimental	7 days	NOEC	0.74 mg/l
Toluene	108-88-3	Diatom	Experimental	72 hours	NOEC	10 mg/l
Toluene	108-88-3	Sheepshead Minnow	Experimental	28 days	NOEC	3.2 mg/l
Hydroxycycloh exyl phenyl ketone		Zebra Fish	Experimental	96 hours	LC50	24 mg/l
Hydroxycycloh exyl phenyl ketone		Water flea	Experimental	24 hours	EC50	105 mg/l
Hydroxycycloh exyl phenyl ketone		Algae	Experimental	72 hours	EC50	14.4 mg/l
Hydroxycycloh exyl phenyl ketone	947-19-3	Water flea	Experimental	48 hours	EC50	53.9 mg/l
Benzene	71-43-2	Green algae	Experimental	72 hours	Effect Concentration 10%	34 mg/l
Benzene	71-43-2	Rainbow trout	Experimental	96 hours	LC50	5.3 mg/l
Benzene	71-43-2	Green Algae	Experimental	72 hours	EC50	29 mg/l
Benzene	71-43-2	Water flea	Experimental	48 hours	EC50	9.23 mg/l
Benzene	71-43-2	Water flea	Experimental	7 days	NOEC	3 mg/l
Benzene	71-43-2	Fathead	Experimental	32 days	NOEC	0.8 mg/l

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		minnow				
1,6-hexanediol diacrylate	13048-33-4	Water flea	Experimental	48 hours	EC50	2.7 mg/l
1,6-hexanediol diacrylate	13048-33-4	Green algae	Experimental	72 hours	EC50	1.6 mg/l
1,6-hexanediol diacrylate	13048-33-4	Ricefish	Experimental	96 hours	LC50	0.38 mg/l
1,6-hexanediol diacrylate	13048-33-4	Water flea	Experimental	21 days	NOEC	0.14 mg/l
1,6-hexanediol diacrylate	13048-33-4	Green algae	Experimental	72 hours	NOEC	0.27 mg/l
1,6-hexanediol diacrylate	13048-33-4	Golden Orfe	Experimental	96 hours	LC50	4.6 mg/l
1,6-hexanediol diacrylate	13048-33-4	Green algae	Experimental	72 hours	EC50	1.5 mg/l
1,6-hexanediol diacrylate	13048-33-4	Green algae	Experimental	72 hours	Effect Concentration 10%	0.585 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Toluene	108-88-3	Experimental Photolysis		Photolytic half- life (in air)	5.2 days (t 1/2)	Other methods
Toluene	108-88-3	Experimental Biodegradation	14 days	BOD	100 % weight	OECD 301C - MITI test (I)
Siloxanes and Silicones, 3-[3- (acetyloxy)-2- hydroxypropox y]propyl Me, di-Me, 3-[2- hydroxy-3-[(1- oxo-2- propenyl)oxy]p ropoxy]propyl Me	125455-51-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,6-hexanediol diacrylate	13048-33-4	Estimated Biodegradation	28 days	BOD	84 % weight	OECD 301F - Manometric respirometry
1,6-hexanediol diacrylate	13048-33-4	Weight of Evidence Biodegradation	28 days	BOD	60 % weight	Other methods
1,6-hexanediol diacrylate	13048-33-4	Experimental Biodegradation	28 days	CO2 evolution	60-70 % weight	OECD 310 CO2 Headspace
Ethanol, 2- amino-, reaction products with cyclohexane and peroxidized N- butyl-2,2,6,6- tetramethyl-4- piperidinamine	191743-75-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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	T	1	I	1	ı	1
-2,4,6-						
trichloro-1,3,5-						
triazine						
reaction						
products						
N,N'-	193098-40-7	Data not	N/A	N/A	N/A	N/A
Bis(2,2,6,6-		available or	- ,,	- "	- "	
tetramethyl-4-		insufficient for				
piperidinyl)-		classification				
1,6-		Ciassification				
hexanediamine,						
polymers with						
morpholine-						
2,4,6-trichloro-						
1,3,5-triazine						
reaction						
products,						
methylated	T. 1 G .	D	20.1	000 1 1	4.0/	OF CD 201D 14 1:0 1
UV stabilizer	Trade Secret	Experimental	28 days	CO2 evolution	4 % weight	OECD 301B - Modified
		Biodegradation				sturm or CO2
UV stabilizer	Trade Secret	Estimated	28 days	BOD	6 % weight	OECD 301C - MITI
		Biodegradation				test (I)
Bis(2,6-	2162-74-5	Estimated	28 days	BOD	2.1 % weight	OECD 301C - MITI
diisopropylphe		Biodegradation				test (I)
nyl)carbodiimi						
de						
Vinyl acetate -	25086-48-0	Data not	N/A	N/A	N/A	N/A
vinyl alcohol -		available or				
vinyl chloride		insufficient for				
polymer		classification				
N,N-	2680-03-7	Experimental	28 days	BOD	3 % weight	OECD 301C - MITI
Dimethylacryla		Biodegradation			J , v v - g - v	test (I)
mide						
2-Phenoxyethyl	48145-04-6	Estimated	28 days	BOD	86.5 % weight	OECD 301F -
acrylate	10115 01 0	Biodegradation	20 days	Вов	00.5 70 Weight	Manometric
aci y iate		Diodegradation				respirometry
exo-1,7,7-	5888-33-5	Experimental	28 days	BOD	72.9 % weight	OECD 301D - Closed
7 7	3000-33-3		20 days	ВОД	72.9 % Weight	bottle test
trimethylbicycl		Biodegradation				bottle test
o[2.2.1]hept-2-						
yl acrylate	(2149 (2.0	Determent	NT/A	NT/A	NT/A	NT/A
Siloxanes and	63148-62-9	Data not	N/A	N/A	N/A	N/A
silicones, di-		available or				
Me		insufficient for				
		classification				
Benzene	71-43-2	Experimental	28 days	BOD	63 % weight	OECD 301F -
		Biodegradation				Manometric
						respirometry
Benzene	71-43-2	Experimental Photolysis		Photolytic half- life (in air)	26 days (t 1/2)	Other methods
2-(2-	7328-17-8	Estimated	28 days	BOD	87 % weight	OECD 301F -
Ethoxyethoxy)		Biodegradation				Manometric
ethyl acrylate						respirometry
Diphenyl(2,4,6	75980-60-8	Estimated	28 days	BOD	<20 % weight	OECD 301F -
Diplicity1(2,4,0	13300-00-0	Biodegradation	20 uays	שטש	-20 /0 Weight	Manometric
trimethylbenzo		Diouegradation				respirometry
u micuryioenzo	I	1	l	I	I	prospiromen y

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yl)phosphine oxide						
Diphenyl(2,4,6 - trimethylbenzo yl)phosphine oxide	75980-60-8	Experimental Biodegradation	28 days	BOD	<20 % weight	OECD 301F - Manometric respirometry
CAMPHENE	79-92-5	Experimental Biodegradation	28 days	BOD	1-4 % weight	OECD 301C - MITI test (I)
Phenothiazine	92-84-2	Experimental Biodegradation	28 days	BOD	0 % weight	OECD 301C - MITI test (I)
Hydroxycycloh exyl phenyl ketone	947-19-3	Experimental Biodegradation	28 days	CO2 evolution	73 % weight	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Toluene	108-88-3	Experimental BCF - Other	72 hours	Bioaccumulatio n factor	90	Other methods
Siloxanes and Silicones, 3-[3- (acetyloxy)-2- hydroxypropox y]propyl Me, di-Me, 3-[2- hydroxy-3-[(1- oxo-2- propenyl)oxy]p ropoxy]propyl Me	125455-51-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,6-hexanediol diacrylate	13048-33-4	Estimated Bioconcentrati on		Bioaccumulatio n factor		Estimated: Bioconcentration factor
1,6-hexanediol diacrylate	13048-33-4	Experimental Bioconcentrati on		Log Kow	2.81	Other methods
Ethanol, 2- amino-, reaction products with cyclohexane and peroxidized N- butyl-2,2,6,6- tetramethyl-4- piperidinamine -2,4,6- trichloro-1,3,5- triazine reaction products	191743-75-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
N,N'- Bis(2,2,6,6- tetramethyl-4-	193098-40-7	Data not available or insufficient for	N/A	N/A	N/A	N/A

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piperidinyl)-		classification				
1,6-		Classification				
hexanediamine,						
polymers with						
morpholine-						
2,4,6-trichloro-						
1,3,5-triazine						
reaction						
products,						
methylated	T 1. C	F	20.1	D:1-4:-	20	OECD 205E
UV stabilizer	Trade Secret	Experimental	28 days	Bioaccumulatio	29	OECD 305E -
		BCF-Carp		n factor		Bioaccumulation flow-
					_	through fish test
UV stabilizer	Trade Secret	Experimental		Bioaccumulatio	<4	Other methods
		BCF - Other		n factor		
Bis(2,6-	2162-74-5	Estimated		Bioaccumulatio	13	Estimated:
diisopropylphe		Bioconcentrati		n factor		Bioconcentration factor
nyl)carbodiimi		on				
de						
Vinyl acetate -	25086-48-0	Data not	N/A	N/A	N/A	N/A
vinyl alcohol -		available or				
vinyl chloride		insufficient for				
polymer		classification				
N,N-	2680-03-7	Experimental		Log Kow	-0.24	Other methods
Dimethylacryla	2000 05 /	Bioconcentrati		Log How	0.2 .	other methods
mide		on				
2-Phenoxyethyl	18115 04 6	Estimated		Bioaccumulatio	22.0	Estimated:
	40143-04-0	Bioconcentrati		n factor	32.9	Bioconcentration factor
acrylate				II lactor		Dioconcentration factor
exo-1,7,7-	5888-33-5	on Estimated		Bioaccumulatio	660	Estimated:
	3000-33-3			n factor	000	
trimethylbicycl		Bioconcentrati		n ractor		Bioconcentration factor
o[2.2.1]hept-2-		on				
yl acrylate	(2140, (2.0	D	NT / A	27/4	3.7.4	NT/A
Siloxanes and	63148-62-9	Data not	N/A	N/A	N/A	N/A
silicones, di-		available or				
Me		insufficient for				
		classification				
Benzene	71-43-2	Experimental		Log Kow	2.13	Other methods
		Bioconcentrati				
		on				
2-(2-	7328-17-8	Estimated		Bioaccumulatio	4	Estimated:
Ethoxyethoxy)		Bioconcentrati		n factor		Bioconcentration factor
ethyl acrylate		on				
Diphenyl(2,4,6	75980-60-8	Data not	N/A	N/A	N/A	N/A
-		available or				
trimethylbenzo		insufficient for				
yl)phosphine		classification				
oxide						
Diphenyl(2,4,6	75980-60-8	Experimental	56 days	Bioaccumulatio	<55	Other methods
-		BCF-Carp		n factor		
trimethylbenzo						
yl)phosphine						
oxide						
CAMPHENE	79-92-5	Experimental	56 days	Bioaccumulatio	606-1290	OECD 305C-Bioaccum
CAMPIT TIETNE	1, 7, 72-3	BCF-Carp	o unys	n factor	1270	degree fish
	<u> </u>	per-carp	<u> </u>	in ractor		Jucgice Hall

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Phenothiazine	92-84-2	Experimental	56 days	Bioaccumulatio	660	OECD 305E -
		BCF-Carp		n factor		Bioaccumulation flow-
						through fish test
Hydroxycycloh	947-19-3	Estimated		Bioaccumulatio	4.5	Other methods
exyl phenyl		Bioconcentrati		n factor		
ketone		on				
Hydroxycycloh	947-19-3	Experimental	56 days	Bioaccumulatio	4-12	OECD 305E -
exyl phenyl		Bioconcentrati		n factor		Bioaccumulation flow-
ketone		on				through fish test

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

See Section 11.1 Information on toxicological effects

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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

Not hazardous for transportation.

Air Transport (IATA)Regulations

UN No Not applicable

Proper Shipping Name Not applicable Hazard Classs/Division Not applicable Subsidiary Risk Not applicable Packing Group: 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. The components of this product are in compliance with the chemical notification requirements of TSCA.

Applicable Environmental, Health and Safety Regulations

Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 Hazardous Waste(Management, Handling & Transboundary) Rules, 2008 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

Benzene

Toluene

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:

Product is classified as toxic liquid

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 1 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:

No revision 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 India SDSs are available at http://solutions.3mindia.co.in