



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™ General Purpose Adhesive Cleaner, PN 08987

Product Identification Numbers

IA-2601-0248-7

1.2. Recommended use and restrictions on use

Recommended use

Specialty Adhesive Remover (Automotive), Automotive Adhesive Remover

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 Aerosol: Category 1.
Acute Toxicity (dermal): Category 5.
Acute Toxicity (inhalation): Category 5.
Skin Corrosion/Irritation: Category 2.
Aspiration Hazard: Category 1.
Carcinogenicity: Category 2.
Specific Target Organ Toxicity (single exposure): Category 1.
Specific Target Organ Toxicity (single exposure): Category 3.
Specific Target Organ Toxicity (repeated exposure): Category 1.

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

2.2. Label elements

Signal Word

DANGER!

Symbols

Flame | Exclamation mark | Health Hazard | Environment |

Pictograms



HAZARD STATEMENTS:

H222	Extremely flammable aerosol.
H229	Pressurised container. may burst if heated.
H313	May be harmful in contact with skin.
H333	May be harmful if inhaled.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H370	Causes damage to organs: cardiovascular system sensory organs
H372	Causes damage to organs through prolonged or repeated exposure: nervous system sensory organs
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

General:

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.

Prevention:

P210A	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P280E	Wear protective gloves.
P273	Avoid release to the environment.

Response:

P304 + P312	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.
P331 Do NOT induce vomiting.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308 + P311 IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTRE or doctor/physician if you feel unwell.

Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.
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
Xylene	1330-20-7	40 - 50
Solvent naphtha (petroleum), light aliphatic	64742-89-8	30 - 40
Propane	74-98-6	10 - 20
Ethylbenzene	100-41-4	1 - 10
Toluene	108-88-3	< 1

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation**

Remove person to fresh air. Get medical attention.

Skin contact

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

Eye contact

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

If swallowed

Do not induce vomiting. Get immediate medical attention.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures**5.1. Suitable Extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

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

<u>Substance</u>	<u>Condition</u>
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. 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

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Cover spill area with a fire-extinguishing foam. 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 use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. 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. 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. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Protect from sunlight. Store in a well-ventilated place. 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
		ACGIH	Limit value not established:	asphyxiant
		ACGIH	TWA:100 ppm;STEL:150 ppm	A4: Not class. as human carcin
		ACGIH	TWA:20 ppm	A3: Confirmed animal carcin.
		ACGIH	TWA:20 ppm	A4: Not class. as human carcin, Ototoxicant

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:

Safety glasses with side shields.

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: Fluoroelastomer

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.
Specific Physical Form:	Aerosol
Color	Colorless
Odor	Solvent
Odour threshold	<i>No data available.</i>
pH	<i>Not applicable.</i>
Melting point/Freezing point: NA	<i>Not applicable.</i>
Boiling point/Initial boiling point/Boiling range	162.8 °C [<i>Details:CONDITIONS: Compressed Gas</i>]
Flash point	-41.1 °C [<i>Details:(Propellant)</i>]
Evaporation rate	<i>No data available.</i>
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	344,737.9 Pa [<i>Details:CONDITIONS: @ 70F</i>]
Vapor Density and/or Relative Vapor Density	>=1 [<i>Ref Std: AIR=1</i>]
Density	0.738 g/ml
Relative density	0.738 [<i>Ref Std: WATER=1</i>]
Water solubility	Nil
Solubility- non-water	<i>No data available.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>No data available.</i>
Viscosity/Kinematic Viscosity	<i>No data available.</i>
Volatile organic compounds (VOC)	738 g/l [<i>Test Method:calculated SCAQMD rule 443.1</i>]
Volatile organic compounds (VOC)	100 % weight [<i>Test Method:calculated per CARB title 2</i>]
Percent volatile	100 % weight
VOC less H2O & exempt solvents	738 g/l [<i>Test Method:calculated SCAQMD rule 443.1</i>]

Nanoparticles

This material does not contain nanoparticles.

SECTION 10: Stability and reactivity**10.1 Reactivity**

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

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

Sparks and/or flames.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products**Substance**

None known.

Condition

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. May cause additional health effects (see below).

Skin contact

May be harmful in contact with skin.

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

Eye contact

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion

Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. 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. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause target organ effects:

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

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
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Overall product	Dermal		No data available; calculated ATE2,000 - 5,000 mg/kg
Overall product	Inhalation-Vapor(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
	Dermal	Rabbit	LD50 > 4,200 mg/kg
	Inhalation-Vapor (4 hours)	Rat	LC50 29 mg/l
	Ingestion	Rat	LD50 3,523 mg/kg
	Dermal	Rabbit	LD50 3,000 mg/kg
	Inhalation-Vapor (4 hours)	Rat	LC50 > 5.2 mg/l
	Ingestion	Rat	LD50 > 5,000 mg/kg
	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
	Dermal	Rabbit	LD50 15,433 mg/kg
	Inhalation-Vapor (4 hours)	Rat	LC50 17.4 mg/l
	Ingestion	Rat	LD50 4,769 mg/kg
	Dermal	Rat	LD50 12,000 mg/kg
	Inhalation-Vapor (4 hours)	Rat	LC50 30 mg/l
	Ingestion	Rat	LD50 5,550 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
	Rabbit	Mild irritant
	Rabbit	Irritant
	Rabbit	Minimal irritation
	Rabbit	Mild irritant
	Rabbit	Irritant

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

Serious Eye Damage/Irritation

Name	Species	Value
	Rabbit	Mild irritant
	Rabbit	No significant irritation
	Rabbit	Mild irritant
	Rabbit	Moderate irritant
	Rabbit	Moderate irritant

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

Sensitization:

Skin Sensitisation

Name	Species	Value
	Human	Not classified
	Guinea	Not classified

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

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
	In Vitro	Not mutagenic
	In vivo	Not mutagenic
	In Vitro	Not mutagenic
	In Vitro	Not mutagenic
	In vivo	Not mutagenic
	In Vitro	Some positive data exist, but the data are not sufficient for classification
	In Vitro	Not mutagenic
	In vivo	Not mutagenic

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

Carcinogenicity

Name	Route	Species	Value
	Dermal	Rat	Not carcinogenic
	Ingestion	Multiple animal species	Not carcinogenic
	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
	Inhalation	Multiple animal species	Carcinogenic.
	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
	Inhalation	Mouse	Some positive data exist, but the data are not sufficient for classification

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure
	Ingestion	Not classified for development	Mouse	NOAEL Not available	during organogenesis
	Inhalation	Not classified for development	Multiple animal species	NOAEL Not available	during gestation
	Inhalation	Not classified for development	Rat	NOAEL 4.3 mg/l	prematuring & during gestation
	Inhalation	Not classified for female reproduction	Human	NOAEL Not available	occupational exposure

	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.3 mg/l	1 generation
	Ingestion	Toxic to development	Rat	LOAEL 520 mg/kg/day	during gestation
	Inhalation	Toxic to development	Human	NOAEL Not available	poisoning and/or abuse

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

Lactation

Name	Route	Species	Value
	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
	Inhalation	auditory system	Causes damage to organs	Rat	LOAEL 6.3 mg/l	8 hours
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
	Inhalation	eyes	Not classified	Rat	NOAEL 3.5 mg/l	not available
	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Multiple animal species	NOAEL Not available	
	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg	not applicable
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
	Inhalation	cardiac sensitization	Causes damage to organs	Human	NOAEL Not available	
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
	Inhalation	respiratory irritation	Not classified	Human	NOAEL Not available	
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human and animal	NOAEL Not available	
	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for	Human	NOAEL Not available	

			classification			
	Inhalation	immune system	Not classified	Mouse	NOAEL 0.004 mg/l	3 hours
	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	poisoning and/or abuse

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

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.4 mg/l	4 weeks
	Inhalation	auditory system	May cause damage to organs though prolonged or repeated exposure	Rat	LOAEL 7.8 mg/l	5 days
	Inhalation	liver	Not classified	Multiple animal species	NOAEL Not available	
	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
	Ingestion	auditory system	Not classified	Rat	NOAEL 900 mg/kg/day	2 weeks
	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
	Ingestion	liver	Not classified	Multiple animal species	NOAEL Not available	
	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
	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
	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 1.1 mg/l	103 weeks
	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 3.4 mg/l	28 days
	Inhalation	auditory system	Not classified	Rat	NOAEL 2.4 mg/l	5 days
	Inhalation	endocrine system	Not classified	Mouse	NOAEL 3.3 mg/l	103 weeks
	Inhalation	gastrointestinal tract	Not classified	Rat	NOAEL 3.3 mg/l	2 years
	Inhalation	bone, teeth, nails, and/or hair muscles	Not classified	Multiple animal species	NOAEL 4.2 mg/l	90 days
	Inhalation	heart immune system respiratory system	Not classified	Multiple animal species	NOAEL 3.3 mg/l	2 years
	Ingestion	liver kidney and/or bladder	Not classified	Rat	NOAEL 680 mg/kg/day	6 months

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

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

Aspiration Hazard

Name	Value
	Aspiration hazard
	Aspiration hazard
	Aspiration hazard
	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
		Activated sludge	Estimated	3 hours	NOEC	157 mg/l
		Green Algae	Estimated	72 hours	EC50	4.36 mg/l
		Rainbow trout	Estimated	96 hours	LC50	2.6 mg/l
		Water flea	Estimated	48 hours	EC50	3.82 mg/l
		Green Algae	Estimated	72 hours	NOEC	0.44 mg/l
		Water flea	Estimated	7 days	NOEC	0.96 mg/l
		Rainbow trout	Experimental	56 days	NOEC	>1.3 mg/l
		Fathead minnow	Estimated	96 hours	LL50	4.1 mg/l
		Water flea	Estimated	48 hours	EL50	4.5 mg/l
		Green algae	Experimental	72 hours	EL50	11 mg/l
		Water flea	Estimated	21 days	NOEL	2.6 mg/l
		Green algae	Experimental	72 hours	NOEL	0.1 mg/l
			Data not available or insufficient for classification			N/A
		Activated sludge	Experimental	49 hours	EC50	130 mg/l
		Atlantic Silverside	Experimental	96 hours	LC50	5.1 mg/l
		Green Algae	Experimental	96 hours	EC50	3.6 mg/l
		Mysid Shrimp	Experimental	96 hours	LC50	2.6 mg/l
		Rainbow trout	Experimental	96 hours	LC50	4.2 mg/l
		Water flea	Experimental	48 hours	EC50	1.8 mg/l
		Water flea	Experimental	7 days	NOEC	0.96 mg/l
		Coho Salmon	Experimental	96 hours	LC50	5.5 mg/l
		Grass Shrimp	Experimental	96 hours	LC50	9.5 mg/l
		Green Algae	Experimental	72 hours	EC50	12.5 mg/l
		Leopard frog	Experimental	9 days	LC50	0.39 mg/l
		Pink Salmon	Experimental	96 hours	LC50	6.41 mg/l
		Water flea	Experimental	48 hours	EC50	3.78 mg/l
		Coho Salmon	Experimental	40 days	NOEC	1.39 mg/l
		Diatom	Experimental	72 hours	NOEC	10 mg/l
		Water flea	Experimental	7 days	NOEC	0.74 mg/l
		Activated sludge	Experimental	12 hours	IC50	292 mg/l
		Bacteria	Experimental	16 hours	NOEC	29 mg/l
		Bacteria	Experimental	24 hours	EC50	84 mg/l
		Redworm	Experimental	28 days	LC50	>150 mg per kg of bodyweight
		Soil microbes	Experimental	28 days	NOEC	<26 mg/kg (Dry Weight)

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
		Experimental Photolysis		Photolytic half-life (in air)	1.4 days (t 1/2)	
		Experimental Biodegradation	28 days	BOD	90-98 % BOD/ThBOD	OECD 301F - Manometric respirometry
		Estimated Biodegradation	28 days	BOD	77.05 % BOD/ThBOD	OECD 301F - Manometric respirometry
		Experimental Photolysis		Photolytic half-life (in air)	27.5 days (t 1/2)	Non-standard method
		Experimental Photolysis		Photolytic half-life (in air)	4.26 days (t 1/2)	Non-standard method
		Experimental Biodegradation	28 days	CO2 evolution	70-80 %CO2 evolution/THC O2 evolution	ISO 14593 Inorg C Headspace
		Experimental Photolysis		Photolytic half-life (in air)	5.2 days (t 1/2)	
		Experimental Biodegradation	20 days	BOD	80 % BOD/ThBOD	APHA Std Meth Water/Wastewater

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
		Experimental BCF - Rainbow Trout	56 days	Bioaccumulation factor	25.9	
		Data not available or insufficient for classification	N/A	N/A	N/A	N/A
		Experimental Bioconcentration		Log Kow	2.36	Non-standard method
		Experimental BCF - Salmon	42 days	Bioaccumulation factor	1	Non-standard method
		Experimental BCF - Other	72 hours	Bioaccumulation factor	90	
		Experimental Bioconcentration		Log Kow	2.73	

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. Facility must be capable of handling aerosol cans. 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 UN1950

Proper Shipping Name AEROSOLS, FLAMMABLE (contains solvents)

Hazard Class/Division 2.1

Subsidiary Risk Not applicable

Packing Group: Not applicable

Marine Transport (IMDG)

UN No UN1950

Proper Shipping Name AEROSOLS, FLAMMABLE (contains solvents)

Hazard Class/Division 2.1

Subsidiary Risk Not applicable

Packing Group: Not applicable

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

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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

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

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 a very highly flammable aerosol.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 4 **Instability:** 0 **Special Hazards:** None
Aerosol Storage Code: 3

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>