



Safety Data Sheet

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Document group:	27-1241-2	Version number:	2.00
Revision date:	16/05/2011	Supersedes date:	18/10/2010
Transportation version number:	2.01 (16/05/2011)		

This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

3M Scotchkote Epoxy Coating 152LV (Part B)

Product identification numbers

GR-2000-9934-3 GR-2001-0156-0 GR-2001-0165-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Coating.

1.3. Details of the supplier of the substance or mixture

Address: 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

Indication of danger

Corrosive.

Dangerous to environment.

Sensitising

Toxic for reproduction (Category 3).

2.2. Label elements

Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive

3M Scotchkote Epoxy Coating 152LV (Part B)**Symbols**

C	Corrosive.
N	Dangerous to environment.

Contains:

m-phenylenebis(methylamine); Nonylphenol; p-Tert-Butylphenol; Pine, extracts; Poly(oxypropylene)diamine; Trimethylhexane-1,6-diamine

Risk phrases

R21/22	Harmful in contact with skin and if swallowed.
R34	Causes burns.
R37	Irritating to respiratory system.
R43	May cause sensitisation by skin contact.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety phrases

S23	Do not breathe gas, fumes, vapour, or spray.
S36/37/39B	Wear suitable protective clothing, gloves, and eye and face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28C	After contact with skin, wash immediately with plenty of water for 15 minutes.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

The classification of CAS 9046-10-0 varies depending on the specific form used and molecular weight. The classification shown in Section 3 represents the most severe classification for this chemical based on all of the available data. However, based on information from the 3M vendor, the specific form of CAS 9046-10-0 used in this material is classified as C: R34.

2.3. Other hazards

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. May cause chemical gastrointestinal burns.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non Hazardous Polymer.	Trade Secret		20 - 30	
Poly(oxypropylene)diamine	9046-10-0		15 - 25	T:R24-25; C:R34; Xi:R37; R43; R52/53 (Self Classified) Acute Tox. 3, H311; Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1, H317 (Self Classified)
Nonylphenol	25154-52-3	EINECS 246-672-0	10 - 15	Repr.Cat.3:R62; Repr.Cat.3:R63; C:R34; Xn:R22; N:R50/53 (EU) Acute Tox. 4, H302; Skin Corr. 1B, H314; Repr. 2, H361df; Aquatic Acute 1, H400,M=10; Aquatic Chronic 1, H410,M=10 (CLP)
p-Tert-Butylphenol	98-54-4	EINECS 202-	10 - 15	C:R34 (Vendor)

3M Scotchkote Epoxy Coating 152LV (Part B)

		679-0		R52 (Self Classified) Skin Corr. 1B, H314 (Vendor) Aquatic Chronic 3, H412 (Self Classified)
Trimethylhexane-1,6-diamine	25620-58-0	EINECS 247-134-8	5 - 10	C:R34; Xn:R22; R43; R52/53 (Self Classified) Acute Tox. 4, H302; Skin Corr. 1B, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (Self Classified)
m-phenylenebis(methylamine)	1477-55-0	EINECS 216-032-5	5 - 10	T:R23; C:R35; Xn:R22; R43; R52/53 (Self Classified) Acute Tox. 3, H331; Acute Tox. 4, H302; Skin Corr. 1A, H314; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (Self Classified)
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	EINECS 202-013-9	1 - 5	Xn:R22; Xi:R36-38 (EU) Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 (CLP)
Ethanol	64-17-5	EINECS 200-578-6	1 - 5	F:R11 (EU) Flam. Liq. 2, H225 (CLP)
Pine, extracts	94266-48-5	EINECS 304-455-9	< 3	Xn:R65; Xi:R36-38; R43; R52/53 (Vendor) Asp. Tox. 1, H304; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412 (Vendor)
Bis[(dimethylamino)methyl]phenol	71074-89-0	EINECS 275-162-0	< 1	C:R34 (Vendor) Xn:R22 (Self Classified) Skin Corr. 1B, H314 (Vendor) Acute Tox. 4, H302 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

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

Failure to immediately flush eyes may have serious health consequences, including death. 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.

3M Scotchkote Epoxy Coating 152LV (Part B)

Skin contact

Immediately flush with large amounts of water for at least 15 minutes. Remove contaminated clothing. Get immediate medical attention. Wash clothing before reuse.

Inhalation

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

If swallowed

Rinse mouth. Do not induce vomiting. Get immediate 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. Extinguishing media

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

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	Condition
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Oxides of nitrogen.	During combustion.

5.3. Advice 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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Evacuate area. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning: A motor could be an ignition source and could cause flammable gases or vapours 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. Ventilate the area with fresh air.

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

Collect as much of the spilled material as possible using non-sparking tools. Collect as much of the spilled material as possible. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Seal the container.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Wash contaminated clothing before reuse. Avoid release to the environment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not handle until all safety precautions have been read and understood. Use personal protective equipment (eg. gloves, respirators...) as required. Contaminated work clothing should not be allowed out of the workplace. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Vapours may travel long distances along the ground or floor to an ignition source and flash back. For industrial or professional use only. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep cool. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Store away from acids. Store away from oxidising agents.

7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Ethanol	64-17-5	Health and Safety Comm. (UK)	TWA:1920 mg/m ³ (1000 ppm)	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m³: milligrams per cubic metre

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

Wear eye/face protection. Wear protective gloves and eye/face protection.

The following eye protection(s) are recommended: Full face shield.

Indirect vented goggles.

Skin/hand protection

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

Gloves made from the following material(s) are recommended: Butyl rubber.

Neoprene.

3M Scotchkote Epoxy Coating 152LV (Part B)

The following protective clothing material(s) are recommended: Neoprene boots.

Respiratory protection

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations:

Fullface air-purifying respirator with organic vapour/acid gas cartridges and P2 particulate prefilters.

Fullface supplied-air respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Liquid.
Appearance/Odour	Amber colour; Ammonia odour.
Boiling point/boiling range	≥ 80 °C
Melting point	<i>No data available.</i>
Flammability (solid, gas)	Flammable Liquid: Category 4.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	≥ 65 °C [<i>Test Method</i> :Closed Cup]
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	≤ 1333.2 Pa [<i>@ 25 °C</i>] [<i>Test Method</i> :Estimated] [<i>Ref Std</i> :AIR=1]
Relative density	0.980 [<i>Ref Std</i> :WATER=1]
Water solubility	0 %
Partition coefficient: n-octanol/water	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Density	0.98 g/ml

9.2. Other information

Volatile organic compounds (VOC)	12 g/l [<i>Test Method</i> :Estimated] [<i>Details</i> :Part A and B mix (EU Definition)]
Percent volatile	3.63 % weight [<i>Test Method</i> :Estimated]

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

Avoid curing large quantities of material to prevent a premature reaction (exotherm) with production of intense heat and smoke.

10.5 Incompatible materials

Amines.

Reaction with water, alcohols, and amines is not hazardous if container can vent to the atmosphere to prevent pressure buildup.

Strong acids.

Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

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:

Eye contact

Toxic by 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.

Skin contact

Corrosive (skin burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion

Toxic if swallowed.

Gastrointestinal corrosion: Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea; blood in the faeces and/or vomitus may also be seen.

Target Organ Effects:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Reproductive/Developmental Toxicity:

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

3M Scotchkote Epoxy Coating 152LV (Part B)**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

Additional information:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines. This product contains ethanol. In IARC published Monograph No. 44, entitled, 'Alcohol Drinking', the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

Toxicological Data**Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE287 mg/kg	Category3 (10.31% unknown)
Poly(oxypropylene)diamine			No data available	
Nonylphenol			No data available	
p-Tert-Butylphenol			No data available	
m-phenylenebis(methylamine)			No data available	
Trimethylhexane-1,6-diamine			No data available	
Ethanol			No data available	
2,4,6-Tris(dimethylaminomethyl)phenol	Ingestion	Rat	LD50 1000 mg/kg	Category4
Pine, extracts			No data available	
Bis[(dimethylamino)methyl]phenol			No data available	

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be corrosive	Category 1C
Poly(oxypropylene)diamine		Corrosive	Category 1C
Nonylphenol		No data available	
p-Tert-Butylphenol		No data available	
m-phenylenebis(methylamine)		No data available	
Trimethylhexane-1,6-diamine		No data available	
Ethanol		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Pine, extracts		No data available	
Bis[(dimethylamino)methyl]phenol		No data available	

Serious Eye Damage/Irritation

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be corrosive	Category 1
Poly(oxypropylene)diamine		Corrosive	Category 1
Nonylphenol		No data available	
p-Tert-Butylphenol		No data available	
m-phenylenebis(methylamine)		No data available	
Trimethylhexane-1,6-diamine		No data available	

3M Scotchkote Epoxy Coating 152LV (Part B)

Ethanol		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Pine, extracts		No data available	
Bis[(dimethylamino)methyl]phenol		No data available	

Skin Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Category 1 based on component data
Poly(oxypropylene)diamine		Sensitising	Category 1
Nonylphenol		No data available	
p-Tert-Butylphenol		No data available	
m-phenylenebis(methylamine)		No data available	
Trimethylhexane-1,6-diamine		No data available	
Ethanol		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Pine, extracts		No data available	
Bis[(dimethylamino)methyl]phenol		No data available	

Respiratory Sensitisation

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Poly(oxypropylene)diamine		No data available	
Nonylphenol		No data available	
p-Tert-Butylphenol		No data available	
m-phenylenebis(methylamine)		No data available	
Trimethylhexane-1,6-diamine		No data available	
Ethanol		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Pine, extracts		No data available	
Bis[(dimethylamino)methyl]phenol		No data available	

Germ Cell Mutagenicity

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Poly(oxypropylene)diamine		No data available	
Nonylphenol		No data available	
p-Tert-Butylphenol		No data available	
m-phenylenebis(methylamine)		No data available	
Trimethylhexane-1,6-diamine		No data available	
Ethanol		No data available	
2,4,6-Tris(dimethylaminomethyl)phenol		No data available	
Pine, extracts		No data available	
Bis[(dimethylamino)methyl]phenol		No data available	

Carcinogenicity

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Category 1A based on component data

3M Scotchkote Epoxy Coating 152LV (Part B)

Poly(oxypropylene)diamine			No data available	
Nonylphenol			No data available	
p-Tert-Butylphenol			No data available	
m-phenylenebis(methylamine)			No data available	
Trimethylhexane-1,6-diamine			No data available	
Ethanol	Ingestion		Carcinogenic.	Category 1A
2,4,6-Tris(dimethylaminomethyl)phenol			No data available	
Pine, extracts			No data available	
Bis[(dimethylamino)methyl]phenol			No data available	

Reproductive Toxicity
Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		Toxic to reproduction and/or development				Overall Reproductive Toxicity classification Category 1A based on component data
Poly(oxypropylene)diamine		No data available				
Nonylphenol		No data available				
p-Tert-Butylphenol		No data available				
m-phenylenebis(methylamine)		No data available				
Trimethylhexane-1,6-diamine		No data available				
Ethanol	Ingestion	Toxic to reproduction and/or development		NOAEL N/A		
2,4,6-Tris(dimethylaminomethyl)phenol		No data available				
Pine, extracts		No data available				
Bis[(dimethylamino)methyl]phenol		No data available				

Target Organ(s)
Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Poly(oxypropylene)diamine	Inhalation	respiratory irritation	May cause respiratory irritation		Irritation Positive		Category 3
Nonylphenol			No data available				

3M Scotchkote Epoxy Coating 152LV (Part B)

p-Tert-Butylphenol			No data available				
m-phenylenebis(methylamine)			No data available				
Trimethylhexane-1,6-diamine			No data available				
Ethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Ethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
2,4,6-Tris(dimethylaminomethyl)phenol			No data available				
Pine, extracts			No data available				
Bis(dimethylaminomethyl)phenol			No data available				

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Poly(oxypropylene)diamine			No data available				
Nonylphenol			No data available				
p-Tert-Butylphenol			No data available				
m-phenylenebis(methylamine)			No data available				
Trimethylhexane-1,6-diamine			No data available				
Ethanol	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
Ethanol	Ingestion	liver	Causes damage		NOAEL		Category 1

3M Scotchkote Epoxy Coating 152LV (Part B)

			to organs through prolonged or repeated exposure		N/A		
2,4,6-Tris(dimethylaminomethyl)phenol			No data available				
Pine, extracts			No data available				
Bis[(dimethylamino)methyl]phenol			No data available				

Aspiration Hazard

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Poly(oxypropylene)diamine	Not an aspiration hazard	Not classified
Nonylphenol	Not an aspiration hazard	Not classified
p-Tert-Butylphenol	Not an aspiration hazard	Not classified
m-phenylenebis(methylamine)	Not an aspiration hazard	Not classified
Trimethylhexane-1,6-diamine	Not an aspiration hazard	Not classified
Ethanol	Not an aspiration hazard	Not classified
2,4,6-Tris(dimethylaminomethyl)phenol	Not an aspiration hazard	Not classified
Pine, extracts	Not an aspiration hazard	Not classified
Bis[(dimethylamino)methyl]phenol	Not an aspiration hazard	Not classified

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 1: Very toxic to aquatic life with long lasting effects.

No product test data available.

No component test data available.

12.2. Persistence and degradability

No test data available.

3M Scotchkote Epoxy Coating 152LV (Part B)

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

EU waste code (product as sold)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

GR-2000-9934-3, GR-2001-0156-0, GR-2001-0165-1

ADR/RID: UN2735, POLYAMINES, LIQUID, CORROSSIVE; N.O.S., (POLY(OXYPROPYLENE)DIAMINE), (NONYLPHENOL), (M-PHENYLENEBIS(METHYLAMINE)), 8., II, (E), ADR Classification Code: C7.

IMDG-CODE: UN2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S., (POLY(OXYPROPYLENE)DIAMINE), (NONYLPHENOL), (M-PHENYLENEBIS(METHYLAMINE)), 8., II, IMDG-Code segregation code: 18- ALKALIS, Marine Pollutant, (NONYLPHENOL), EMS: FA,SB.

ICAO/IATA: UN2735, POLYAMINES, LIQUID, CORROSIVE, N.O.S., (POLY(OXYPROPYLENE)DIAMINE), (NONYLPHENOL), (M-PHENYLENEBIS(METHYLAMINE)), 8., II.

SECTION 15: Regulatory information

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

Carcinogenicity

<u>Ingredient</u>	<u>CAS Nbr</u>	<u>Classification</u>	<u>Regulation</u>
Ethanol	64-17-5	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer

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 product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H361df	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

List of relevant R-phrases

R11	Highly flammable.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R24	Toxic in contact with skin.
R25	Toxic if swallowed.
R34	Causes burns.
R35	Causes severe burns.
R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R52	Harmful to aquatic organisms.
R52/53	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R65	Harmful: May cause lung damage if swallowed.

Revision information:

Revision Changes:

Section 8: Skin protection - protective clothing information was modified.

Supersedes date text was modified.

Section 1: Main heading was modified.

Section 1: 1.1.product identifier heading was modified.

Section 1: 1.2. Relevant identified uses of the substance or mixture and uses advised against heading was modified.

Section 1: 1.3. Details of the supplier of the substance or mixture heading was modified.

Section 1: 1.4. Emergency telephone number heading was modified.

Section 2: Main heading was modified.

Section 3: Main heading was modified.

Section 4: Main heading was modified.

Section 5: 5.1. Extinguishing media heading was modified.

Section 5: Main heading was modified.
Section 5: 5.3. Advice for fire-fighters was modified.
Section 5: 5.2. Special hazards arising from the substance or mixture heading was modified.
Section 6: 6.3. Methods and material for containment and cleaning up was modified.
Section 6: 6.2. Environmental precautions heading was modified.
Section 6: Main heading was modified.
Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was modified.
Section 7: Main heading was modified.
Section 8: Main heading was modified.
Section 8: 8.1. Control parameters heading was modified.
Section 8: 8.2.1 Engineering controls heading was modified.
Section 9: Main heading was modified.
Section 9: 9.1. Information on basic physical and chemical properties heading was modified.
Section 9: 9.2. Other information heading was modified.
Section 10: Main heading was modified.
Section 11: Main heading was modified.
Section 12: Main heading was modified.
Section 13: Main heading was modified.
Section 14: Main heading was modified.
Section 15: Main heading was modified.
Section 16: Main heading was modified.
Section 2: Label ingredient information was modified.
Section 1: 3M Product identification numbers heading was modified.
Section 1: 3M Product identification numbers was modified.
Section 16: List of relevant R phrase information was modified.
Section 3: Composition/ Information of ingredients table was modified.
Section 8: Skin/hand protection heading was modified.
Section 2: Indication of danger information was modified.
Section 12: 12.1. Toxicity heading was modified.
Section 12: 12.4 Mobility in soil heading was modified.
Section 12: Contact 3M for more details information was modified.
Section 12: 12.2. persistence and degradability heading was modified.
Section 12: 12.3. Bioaccumulative potential heading was modified.
Section 12: 12.5. Results of the PBT and vPvB assessment was modified.
Section 12: 12.6. Other adverse effects was modified.
Section 16: Regulations – Inventories – EU ONLY was modified.
Section 1: Address was modified.
Copyright was modified.
Section 9: Flammable limits (LEL) information was modified.
Section 9: Flammable limits (UEL) information was modified.
Section 1: Initial issue message was modified.
Section 4: First aid for skin contact heading was added.
Section 4: First aid for eye contact heading was added.
Section 4: First aid for ingestion (swallowing) heading was added.
Section 4: First aid for inhalation heading was added.
Remark (phrase) was added.
Section 15: Carcinogenicity heading was added.
Section 15: Carcinogenicity information was added.
Section 15: Carcinogenicity table Regulation column heading was added.
Section 15: Carcinogenicity table Ingredient column heading was added.
Section 15: Carcinogenicity table CAS No column heading was added.
Section 15: Carcinogenicity table Classification column heading was added.
Section 2: Other hazards phrase was added.
Company logo was added.
Telephone header was added.
Company Telephone was added.

Section 11: Information on Toxicological effects heading was added.
Section 11: Signs and Symptoms of Exposure heading was added.
Section 11: Acute Toxicity table heading was added.
Section 11: Acute Toxicity table ATE text was added.
Aspiration Hazard Table was added.
Section 11: Aspiration table heading was added.
Section 11: Acute Toxicity table was added.
Section 11: Classification disclaimer was added.
Section 11: Additional toxicological information statement was added.
Section 11: Health effects heading was added.
Section 11: Carcinogenicity heading was added.
Carcinogenicity Table was added.
Section 11: Carcinogenicity table heading was added.
Section 11: Exposure Duration table heading was added.
Section 11: Serious Eye Damage/Irritation table heading was added.
Serious Eye Damage/Irritation Table was added.
Germ Cell Mutagenicity Table was added.
Section 11: Germ Cell Mutagenicity table heading was added.
Section 11: Additional information heading was added.
Section 11: Target Organ Effects heading was added.
Skin Sensitisation Table was added.
Respiratory Sensitisation Table was added.
Section 11: Name table heading was added.
Section 11: Reproductive and/or Developmental table heading was added.
Section 11: Reproductive/Developmental Toxicity heading was added.
Reproductive Toxicity Table was added.
Section 11: Reproductive Toxicity table heading was added.
Section 11: Respiratory Sensitisation table heading was added.
Section 11: Route table heading was added.
Skin Corrosion/Irritation Table was added.
Section 11: Skin Sensitisation table heading was added.
Section 11: Species table heading was added.
Section 11: Test Result table heading was added.
Section 11: Target Organs table heading was added.
Section 11: Target Organs - Repeated Exposure table heading was added.
Target Organs - Repeated Table was added.
Section 11: Target Organs - Single Exposure table heading was added.
Target Organs - Single Table was added.
Section 11: Toxicological Data heading was added.
Section 11: UN GHS Classification table heading was added.
Section 11: Value table heading was added.
Section 11: Health Effects - Eye information was added.
Section 11: Health Effects - Skin information was added.
Section 11: Health Effects - Inhalation information was added.
Section 11: Health Effects - Ingestion information was added.
Section 11: Health Effects - Other information was added.
Section 11: Reproductive Hazards information was added.
Section 11: Cancer Hazards information was added.
Section 11: Health Effects - Additional Information was added.
Section 11: Skin Corrosion/Irritation table heading was added.
Section 1: Identified uses header was added.
Section 3: Reference to R and H statement explanation in Section 16 was added.
Section 3: Disclosure Statement was added.
Section 12: Classification Warning was added.
Section 12: No PBT/vPvB information available warning was added.
Section 2: 2.1. Classification of the substance or mixture heading was added.

Section 2: 2.2. Label elements heading was added.
Section 2: 2.3. Other hazards heading was added.
Section 2: 2.2 & 2.3. DSD/DPD heading was added.
Section 5: Hazardous combustion products heading was added.
Section 5: Hazardous combustion products table was added.
Section 5: Fire - Extinguishing media information was added.
Section 5: Fire - Special hazards information was added.
Section 5: Fire - Advice for fire fighters information was added.
Section 6: 6.4. Reference to other sections heading was added.
Section 6: Accidental release personal information was added.
Section 6: Accidental release environmental information was added.
Section 6: Accidental release clean-up information was added.
Refer to Section 8 and Section 13 for more information was added.
Section 7: 7.1. Precautions for safe handling header was added.
Section 7: 7.2. Conditions for safe storage including any incompatibilities header was added.
Section 7: 7.3. Specific end use(s) header was added.
Section 7: More information statement was added.
Section 7: Precautions safe handling information was added.
Section 7: Conditions safe storage was added.
Section 8: 8.1. OEL table heading was added.
Section 8: 8.2.2. Personal protective equipment (PPE) heading was added.
Section 8: Appropriate Engineering controls information was added.
Section 8: Personal Protection - Eye information was added.
Section 8: Personal Protection - Skin/hand information was added.
Section 10: 10.1. Reactivity heading was added.
Section 10: 10.2. Chemical stability heading was added.
Section 10: 10.3. Possibility of hazardous reactions heading was added.
Section 10: 10.4. Conditions to avoid heading was added.
Section 10: 10.5. Incompatible materials heading was added.
Section 10: 10.6 Hazardous decomposition products was added.
Section 10: Hazardous decomposition or by-products table was added.
Section 10.1: Reactivity information was added.
Section 13: 13.1. Waste treatment method heading was added.
Section 13: 13.1. Waste disposal note was added.
Section 13: Standard Phrase Category Waste GHS was added.
Section 4: 4.1. Description of first aid measures heading was added.
Section 4: 4.2. Most important symptoms and effects, both acute and delayed was added.
Section 4: 4.3. Indication of any immediate medical attention and special treatment required heading was added.
Section 4: First aid for eye contact information was added.
Section 4: First aid for skin contact information was added.
Section 4: First aid for inhalation information was added.
Section 4: First aid for ingestion (swallowing) information was added.
Section 4: First Aid –notes to physician (REACH/GHS) was added.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was added.
Section 16: List of relevant H statements heading was added.
Section 4:4.2. Information on toxicological effects text was added.
Section 8: 8.2. Exposure controls heading was added.
Section 10: 10.6. Hazardous decomposition products table column 1 heading was added.
Section 10: 10.6. Hazardous decomposition products table column 2 heading was added.
Section 15: 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture heading was added.
Section 15: 15.2. Chemical Safety Assessment was added.
A chemical safety assessment has been carried out for the relevant substances in this material by the registrant in accordance with regulation REGULATION (EC) No 1907/2006 was added.
Section 11: Potential effects from eye contact heading was added.

Section 11: Potential effects from skin contact heading was added.
Section 11: Potential effects from inhalation heading was added.
Section 11: Potential effects from ingestion heading was added.
Section 7: Handling heading was deleted.
Section 7: Handling comment was deleted.
Section 7: Storage comment was deleted.
Company Logo was deleted.
Section 3: Potential effects from eye contact heading was deleted.
Section 3: Potential effects from skin contact heading was deleted.
Section 3: Potential effects from inhalation heading was deleted.
Section 3: Potential effects from ingestion heading was deleted.
Section 4: First aid for eye contact - decontamination - was deleted.
Section 4: First aid for eye contact - medical assistance - was deleted.
Section 3: Potential effects from eye contact comment was deleted.
Section 5: Extinguishing media information was deleted.
Section 7: Storage heading was deleted.
Section 8: Engineering controls information was deleted.
Section 8: Prevention of swallowing information was deleted.
Section 10: Hazardous decomposition or by-products table was deleted.
Section 13: Waste disposal method heading was deleted.
Section 13: Waste disposal method information was deleted.
Section 4: First aid for skin contact - termination of exposure - was deleted.
Section 4: First aid for skin contact - decontamination - was deleted.
Section 4: First aid for skin contact - medical assistance - was deleted.
Section 4: First aid for skin contact - handling - was deleted.
Section 4: First aid for inhalation - termination of exposure - was deleted.
Section 4: First aid for inhalation - medical assistance - was deleted.
Section 4: First aid for ingestion (swallowing) - decontamination - was deleted.
Section 4: First aid for ingestion (swallowing) - intervention - was deleted.
Section 4: First aid for ingestion (swallowing) - medical assistance - was deleted.
Section 3: Other health effects information was deleted.
Section 6: Release measures note was deleted.
Section 8: Respiratory protection - recommended respirators guide was deleted.
Section 8: Skin protection - protective clothing text was deleted.
Section 3: Ingredient phrase was deleted.
First Aid text was deleted.
Section 2 Risk phrases heading was deleted.
Section 5: Unsuitable extinguishing media heading was deleted.
Section 8: Hand Protection heading was deleted.
Section 8: Environmental exposure controls no data available text was deleted.
Section 8: Exposure controls heading was deleted.
Section 8: 8.2.3. Environmental exposure controls heading was deleted.
Section 9: Important health safety and environmental information heading was deleted.
Section 10.1 Conditions to avoid heading was deleted.
Section 10.2 Materials to avoid heading was deleted.
Section 10: Hazardous decomposition products heading was deleted.
Section 11: Reproductive/developmental effects heading was deleted.
Section 2: Risk phrase information was deleted.
Section 11: Other Health Effects heading was deleted.
Section 16: Restrictions on use heading was deleted.
Section 7: Handling information was deleted.
Section 7: Storage information was deleted.
Section 8: Prevention of swallowing heading was deleted.
Section 8: Eye/face protection information was deleted.
Section 8: Respiratory protection information was deleted.
Section 8: Skin protection information was deleted.

Section 5: Unusual fire and explosion hazard information was deleted.
Section 5: Fire fighting procedures information was deleted.
Section 11: Potential effects from eye contact information was deleted.
Section 11: Potential respiratory effects information was deleted.
Section 11: Potential effects from ingestion information was deleted.
Section 11: Potential effects from skin contact information was deleted.
Section 12: No data available information was deleted.
Section 6: Personal precautions information was deleted.
Section 6: Environmental procedures information was deleted.
Section 6: Methods for cleaning up information was deleted.
Section 11: Reproductive/developmental effects information was deleted.
Section 2: Other hazards heading was deleted.
Section 2: Notes on labelling heading was deleted.
Reference to R phrase explanation in Section 16 was deleted.
Section 16: Restrictions on use was deleted.
Section 2: Special provisions concerning the labelling of certain substances heading was deleted.

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