

Safety Data Sheet

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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

3MTM NovecTM 7100 Engineered Fluid

REACH registration number	CASRN	EC Number	Ingredient Name
01-0000016878-53-0001		422-270-2	Reaction Mass of 1,1,2,3,3,3-hexafluoro- 1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1- methoxybutane

Product Identification Numbers

70-2134-0501-5 98-0211-8941-4 98-0211-8946-3 98-0212-1011-1

7100003721 7000006297 7100003767 7100260291

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

Identified uses

For industrial use only. Not intended for use as a medical device or drug.

Restrictions on Use

NovecTM Engineered Fluids are used in a wide variety of applications, including but not limited to precision cleaning of medical devices and as lubricant deposition solvents for medical devices. When the product is used for applications where the finished device is implanted into the human body, no residual Novec solvent may remain on the parts. It is highly recommended that the supporting test results and protocol be cited during FDA registration. 3M Electronics Materials Solutions Division (EMSD) will not knowingly sample, support, or sell its products for incorporation in medical and pharmaceutical products and applications in which the 3M product will be temporarily or permanently implanted into humans or animals. The customer is responsible for evaluating and determining that a 3M EMSD product is suitable and appropriate for its particular use and intended application. The conditions of evaluation, selection, and use of a 3M product can vary widely and affect the use and intended application of a 3M product. Because many of these conditions are uniquely within the user's knowledge and control, it is essential that the user evaluate and determine whether the 3M product is suitable and appropriate for a particular use and intended application, and complies with all local applicable laws, regulations, standards, and guidance.

1.3. Details of the supplier of the safety data sheet

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

 Telephone:
 +44 (0)1344 858 000

 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

CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

CLASSIFICATION:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

Not applicable

Ingredients:

Ingredient CAS Nbr EC No. % by Wt

Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane

422-270-2

<= 100(Typically100)

Notes on labelling

Updated per Regulation (EC) No. 648/2004 on detergents.

2.3. Other hazards

None known.

This material does not contain any substances that are assessed to be a PBT or vPvB

SECTION 3: Composition/information on ingredients

3.1. Substances

Ingredient	Identifier(s)	%	Classification according to Regulation
			(EC) No. 1272/2008 [CLP]
Reaction Mass of 1,1,2,3,3,3-hexafluoro-	(EC-No.) 422-270-2	<= 100	Substance not classified as hazardous
1-methoxy-2-(trifluoromethyl)propane		(Typically	
and 1,1,2,2,3,3,4,4,4-nonafluoro-1-		100)	
methoxybutane			

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

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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

No need for first aid is anticipated.

Skin contact

No need for first aid is anticipated.

Eye contact

No need for first aid is anticipated.

If swallowed

No need for first aid is anticipated.

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition. None inherent in this product.

Hazardous Decomposition or By-Products

Substance
Carbon monoxide
Carbon dioxide.
Hydrogen Fluoride

Condition

During combustion. During combustion.

During combustion. - At elevated temperatures.

5.3. Advice for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

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 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.

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

Avoid inhalation of thermal decomposition products. For industrial/occupational use only. Not for consumer sale or use. Store work clothes separately from other clothing, food and tobacco products. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases. 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

No occupational exposure limit values exist for any of the components listed in Section 3 of this Safety Data Sheet.

Biological limit values

No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. 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

None required.

Skin/hand protection

Chemical protective gloves are not required under normal use conditions. However, when the product is subjected to extreme heat, HF may be formed. For those cases, neoprene gloves and apron are recommended.

Respiratory protection

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use a positive pressure supplied-air respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquid.Specific Physical Form:Liquid.ColourColourless

Odor Slight Ether **Odour threshold** No data available.

Melting point/freezing point -135 °C

Boiling point/boiling range 61 °C [@ 101,324.72 Pa]
Flammability (solid, gas) Not applicable.
Flammable Limits(LEL) None detected
Flammable Limits(UEL) None detected

Flammable Limits(UEL)

None detected
No flash point

No flash point

Autoignition temperature 405 °C [Details:(ASTM E659-84)]

Decomposition temperature pHNot applicable.

Kinematic Viscosity0.4 mm²/secWater solubility< 12 ppm</th>Solubility- non-waterNo data available.Partition coefficient: n-octanol/water3.9 [Details:30 °C]

Partition coefficient: n-octanol/water3.9 [Details:30 °C]Vapour pressure26,931 Pa [@ 25 °C]

Density1.5 g/mlRelative density1.5 [Ref Std:WATER=1]Relative Vapor Density8.6 [Ref Std:AIR=1]

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds 1,500 g/l

Evaporation rate49 [Ref Std:BUOAC=1] **Molecular weight**No data available.

Percent volatile 100 %

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

None known.

10.5 Incompatible materials

Strong acids.
Strong bases.

Strong oxidising agents.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	At elevated temperatures extreme conditions of
	heat
Carbon dioxide.	At elevated temperatures extreme conditions of
	heat
Hydrogen Fluoride	At elevated temperatures extreme conditions of
	heat
Perfluoroisobutylene (PFIB).	At elevated temperatures extreme conditions of
• • •	heat
Toxic vapour, gas, particulate.	At elevated temperatures extreme conditions of
	heat

Refer to section 5.2 for hazardous decomposition products during combustion.

If the product is exposed to extreme conditions of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from internal hazard assessments.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation

No health effects are expected.

Skin contact

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

Eye contact

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

Ingestion

No known health effects.

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
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-	Dermal		LD50 estimated to be > 5,000 mg/kg
(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-			
methoxybutane			
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-	Inhalation-	Rat	LC50 > 1,000 mg/l
(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-	Vapour (4		

D (C 12

methoxybutane	hours)		
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-	Ingestion	Rat	LD50 > 5,000 mg/kg
(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-			
methoxybutane			

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name		Value
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane	Rabbit	No significant irritation
and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane		

Serious Eye Damage/Irritation

Name	Species	Value
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	Rabbit	No significant irritation

Skin Sensitisation

Name S		Value
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane	Guinea	Not classified
and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	pig	

Respiratory Sensitisation

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

Germ Cell Mutagenicity

Name		Value
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	In Vitro	Not mutagenic
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	In vivo	Not mutagenic

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure
			1		Duration
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	Inhalation	Not classified for female reproduction	Rat	NOAEL 129 mg/l	1 generation
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	Inhalation	Not classified for male reproduction	Rat	NOAEL 129 mg/l	1 generation
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	Inhalation	Not classified for development	Rat	NOAEL 307 mg/l	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name Route Target Organ(s) Value Species Test result Expe	osure

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						Duration
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	Inhalation	nervous system	Not classified	Dog	LOAEL 913 mg/l	10 minutes
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	Inhalation	cardiac sensitisation	Not classified	Dog	NOAEL 913 mg/l	10 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	Inhalation	liver	Not classified	Rat	NOAEL 155 mg/l	13 weeks
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	Inhalation	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 129 mg/l	11 weeks
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	Inhalation	heart skin endocrine system gastrointestinal tract hematopoietic system immune system muscles nervous system eyes kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 155 mg/l	13 weeks
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2- (trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	Ingestion	endocrine system liver heart hematopoietic system immune system nervous system eyes kidney and/or bladder respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

Aspiration Hazard

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

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.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

Chronic aquatic hazard:

No toxicity at limit of water solubility. Endpoint not reached at limit of water solubility.

No product test data available.

Material	CAS#	Organism	Type	Exposure	Test endpoint	Test result
Reaction Mass of	422-270-2	Green algae	Analogous	72 hours	No tox obs at lmt	>100 mg/l
1,1,2,3,3,3-hexafluoro-			Compound	, = 220 4220	of water sol	*** ****
1-methoxy-2-						
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Water flea	Analogous	48 hours	No tox obs at lmt	>100 mg/l
1,1,2,3,3,3-hexafluoro-	122 270 2	Water fiea	Compound	40 110413	of water sol	2 100 mg/1
1-methoxy-2-			Compound		or water sor	
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Fathead minnow	Endpoint not	96 hours	LC50	>100 mg/l
1,1,2,3,3,3-hexafluoro-	722-270-2	atticad milliow	reached	70 Hours	LC30	- 100 mg/1
1-methoxy-2-			reacticu			
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Fathead minnow	Endpoint not	96 hours	No tox obs at lmt	>100 mg/l
1,1,2,3,3,3-hexafluoro-	422-270-2	ratiicad iiiiiiiow	reached	90 Hours	of water sol	- 100 mg/1
1-methoxy-2-			reacticu		of water sor	
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Green algae	Experimental	72 hours	EC50	>100 mg/l
1,1,2,3,3,3-hexafluoro-	422-270-2	Green algae	Experimental	/2 Hours	ECSO	- 100 mg/1
1-methoxy-2-						
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Water flea	Experimental	48 hours	EC50	>100 mg/l
1,1,2,3,3,3-hexafluoro-	422-270-2	water fied	Experimental	46 110015	ECSO	- 100 mg/1
1-methoxy-2-						
(trifluoromethyl)propan						
e and 1,1,2,2,3,3,4,4,4-						
nonafluoro-1-						
methoxybutane						
Reaction Mass of	422-270-2	Green algae	Analogous	72 hours	No tox obs at lmt	>100 mg/l
1,1,2,3,3,3-hexafluoro-	422-270-2	Green algae	Compound	/2 Hours	of water sol	- 100 mg/1
1-methoxy-2-			Compound		or water sor	
(trifluoromethyl)propan			1	1		
e and 1,1,2,2,3,3,4,4,4-			1			
nonafluoro-1-						
methoxybutane			1	1		
Reaction Mass of	422-270-2	Green algae	Experimental	72 hours	NOEC	100 mg/l
1,1,2,3,3,3-hexafluoro-	1422-270-2	Green argae	Experimental	/2 Hours	NOEC	100 1119/1
1,1,2,5,5,5-nexamuoro- 1-methoxy-2-						
(trifluoromethyl)propan			1			
[(umuoromemyr)propan	<u> </u>			1		1

e and 1,1,2,2,3,3,4,4,4-			
nonafluoro-1-			
methoxybutane			

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	422-270-2	Experimental Photolysis		Photolytic half-life (in air)	2.9 years (t 1/2)	Non-standard method
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	422-270-2	Experimental Biodegradation	28 days	BOD	22 %BOD/ThB OD	OECD 301D - Closed bottle test
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	422-270-2	Analogous Compound Biodegradation	28 days	BOD	22 %BOD/ThB OD	OECD 301D - Closed bottle test

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4,4-nonafluoro-1-methoxybutane	422-270-2	Experimental Bioconcentration		Log Kow	4.0	Non-standard method
Reaction Mass of 1,1,2,3,3,3-hexafluoro-1-methoxy-2-(trifluoromethyl)propane and 1,1,2,2,3,3,4,4-nonafluoro-1-methoxybutane	422-270-2	Analogous Compound Bioconcentration		Log Kow	4.0	

12.4. Mobility in soil

No test data available.

12.5. Results of the PBT and vPvB assessment

This material does not contain any substances that are assessed to be a PBT or vPvB

12.6. Endocrine disrupting properties

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

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

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. 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. Combustion products will include HF. Facility must be capable of handling halogenated materials. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

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)

070103* Organic halogenated solvents, washing liquids and mother liquors

14 06 02* Other halogenated solvents and solvent mixtures

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	No data available.	No data available.	No data available.
14.2 UN proper shipping name	No data available.	No data available.	No data available.
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.
14.4 Packing group	No data available.	No data available.	No data available.
14.5 Environmental hazards	No data available.	No data available.	No data available.
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.

ADR Classification Code	No data available.	No data available.	No data available.
IMDG Segregation Code	No data available.	No data available.	No data available.

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

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 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 Japan Chemical Substance Control Law. 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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. 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.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1 None

Seveso named dangerous substances, Annex 1, Part 2 None

15.2. Chemical Safety Assessment

A chemical safety assessment has been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

SECTION 16: Other information

Revision information:

CLP: Ingredient table information was modified.

Section 3: Composition/Information of ingredients table information was modified.

Section 5: Fire - Advice for fire fighters information information was modified.

Section 5: Fire - Special hazards information information was modified.

Section 7: Precautions safe handling information information was modified.

Section 8: Appropriate Engineering controls information information was modified.

Section 8: Personal Protection - Respiratory Information information was added.

Section 8: Respiratory protection information information was deleted.

Section 11: Target Organs - Repeated Table information was modified.

- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 14 Marine transport in bulk according to IMO instruments Main Heading information was modified.
- Section 14 UN Number information was modified.

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