

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 612 Magnesium Protection Fluid

REACH registration number: 01-0000018239-65-0001

Product Identification Numbers

98-0212-3435-0

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

Identified uses

Magnesium cover gas agent for protection of molten magnesium

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

CLASSIFICATION:

Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

HAZARD STATEMENTS:

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

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

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
1,1,1,2,2,4,5,5,5-Nonafluoro-4-	756-13-8	ELINCS 436-	> 99.9	Aquatic Chronic 3, H412 (CLP)
(trifluoromethyl)-3-pentanone		710-6		

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air. If you are concerned, get medical advice.

Skin contact

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eve contact

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Product is a fire-extinguishing agent. Material will not burn. 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.

Hazardous Decomposition or By-Products

Substance

Carbon monoxide. Carbon dioxide. Toxic Vapour/Gas

Condition

During combustion. During combustion. During combustion.

5.3. Advice for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, tunic and trousers (leggings), bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. 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

Contents may be under pressure, open carefully. Avoid inhalation of thermal decomposition products. For industrial or professional use only. Do not use in a confined area with minimal air exchange. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment.

7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store in a well-ventilated place. Store at temperatures not exceeding 38C/100F Store away from strong bases. Store away from other materials. Store away from amines.

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

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 Additional comments** Agency Limit type

1,1,1,2,2,4,5,5,5-Nonafluoro-4-TWA:150 ppm(1940 mg/m3) 756-13-8 Manufacturer

(trifluoromethyl)-3-pentanone determined

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit CEIL: Ceiling

Biological limit values

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

Derived no effect level (DNEL)

Ingredient	Degradation Product	Population	Human exposure pattern	DNEL
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone		Consumer	Inhalation, Long-term exposure (24 hours), Systemic effects	580 mg/m³
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone		Consumer	Oral, Long-term exposure (24 hours), Systemic effects	74 mg/kg bw/d
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone		Worker	Dermal, Long-term exposure (8 hours), Systemic effects	147 mg/kg bw/d
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone		Worker	Inhalation, Long-term exposure (8 hours), Systemic effects	780 mg/m ³
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone		Worker	Inhalation, Short-term exposure, Systemic effects	1,286,130 mg/m ³

Predicted no effect concentrations (PNEC)

Ingredient	Degradation Product	Compartment	PNEC
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Hydrogen Fluoride (CAS 7664-39-3)	Agricultural soil	12.43 mg/kg d.w.
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Pentafluoropropanoi c acid (CAS 422-64- 0)	Agricultural soil	0.006893 mg/kg d.w.
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Trifluoroacetic acid (CAS 76-05-1)	Agricultural soil	0.0113 mg/kg d.w.
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Hydrogen Fluoride (CAS 7664-39-3)	Air during emission	0.0002 mg/m³
1,1,1,2,2,4,5,5,5-	Hydrogen Fluoride	Freshwater	0.9 mg/l

Nonafluoro-4-	(CAS 7664-39-3)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Pentafluoropropanoi	Freshwater	0.0085 mg/l
Nonafluoro-4-	c acid (CAS 422-64-		
(trifluoromethyl)-3-	0)		
pentanone			
<u> </u>	T. (d 1	E 1 /	0.0077 /1
1,1,1,2,2,4,5,5,5-	Trifluoroacetic acid	Freshwater	0.0077 mg/l
Nonafluoro-4-	(CAS 76-05-1)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Hydrogen Fluoride	Freshwater sediments	4.692 mg/kg d.w.
Nonafluoro-4-	(CAS 7664-39-3)		
(trifluoromethyl)-3-	(3113 / 33 1 3)		
pentanone			
	Danta Chanananananai	Freshwater sediments	0.02092 /11
1,1,1,2,2,4,5,5,5-	Pentafluoropropanoi	Freshwater sediments	0.03082 mg/kg d.w.
Nonafluoro-4-	c acid (CAS 422-64-		
(trifluoromethyl)-3-	0)		
pentanone			
1,1,1,2,2,4,5,5,5-	Trifluoroacetic acid	Freshwater sediments	0.0276 mg/kg d.w.
Nonafluoro-4-	(CAS 76-05-1)		
(trifluoromethyl)-3-	(33.27, 73.37, 7)		
pentanone			
1	II. 1 Fl	C11	12.42 / 1
1,1,1,2,2,4,5,5,5-	Hydrogen Fluoride	Grassland average	12.43 mg/kg d.w.
Nonafluoro-4-	(CAS 7664-39-3)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Pentafluoropropanoi	Grassland average	0.006893 mg/kg d.w.
Nonafluoro-4-	c acid (CAS 422-64-		
(trifluoromethyl)-3-	0)		
pentanone	()		
1,1,1,2,2,4,5,5,5-	Trifluoroacetic acid	Grassland average	0.0113 mg/kg d.w.
		Grassiand average	0.0113 mg/kg u.w.
Nonafluoro-4-	(CAS 76-05-1)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Hydrogen Fluoride	Marine water	0.09 mg/l
Nonafluoro-4-	(CAS 7664-39-3)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Pentafluoropropanoi	Marine water	0.00085 mg/l
Nonafluoro-4-	c acid (CAS 422-64-	Waithe water	0.00005 mg/1
	`		
(trifluoromethyl)-3-	0)		
pentanone			
1,1,1,2,2,4,5,5,5-	Trifluoroacetic acid	Marine water	0.00077 mg/l
Nonafluoro-4-	(CAS 76-05-1)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Hydrogen Fluoride	Marine water sediments	0.4692 mg/kg d.w.
Nonafluoro-4-	(CAS 7664-39-3)	The state of south of the	0.10,2 mg/ng u.m.
	(CAS /004-33-3)		
(trifluoromethyl)-3-			
pentanone			
1,1,1,2,2,4,5,5,5-	Pentafluoropropanoi	Marine water sediments	0.003082 mg/kg d.w.
Nonafluoro-4-	c acid (CAS 422-64-		
(trifluoromethyl)-3-	0)		
pentanone			
	1	l .	

1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Trifluoroacetic acid (CAS 76-05-1)	Marine water sediments	0.00276 mg/kg d.w.
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Hydrogen Fluoride (CAS 7664-39-3)	Sewage Treatment Plant	51 mg/l
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Pentafluoropropanoi c acid (CAS 422-64- 0)	Sewage Treatment Plant	1,000 mg/l
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Trifluoroacetic acid (CAS 76-05-1)	Sewage Treatment Plant	1 mg/l

8.2. Exposure controls

In addition, refer to the annex for more information.

8.2.1. Engineering controls

Provide appropriate local exhaust when product is heated. 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

Eye protection not required.

Skin/hand protection

No protective gloves required.

Respiratory protection

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection. If thermal degradation products are expected, use a full facepiece supplied-air respirator.

8.2.3. Environmental exposure controls

Refer to Annex

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical stateLiquid.Specific Physical Form:Liquid.

Appearance/Odour Clear colourless liquid with low odour

Odour threshold No data available. pH Not applicable.

Boiling point/boiling range 49 °C [@ 101,324.72 Pa]

-108 °C Melting point Flammability (solid, gas) Not applicable. Not classified **Explosive properties Oxidising properties** Not classified No flash point Flash point Autoignition temperature Not applicable. None detected Flammable Limits(LEL) Flammable Limits(UEL) None detected 40.4 kPa [@ 25 °C] Vapour pressure

Relative density 1.6 [@ 20 °C] [Ref Std:WATER=1]

Water solubility Nil

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Evaporation rate> 1 [Ref Std:BUOAC=1]Vapour density11.6 [Ref Std:AIR=1]Decomposition temperatureNo data available.Viscosity0.6 mPa-s [@, 25 °C]

9.2. Other information

EU Volatile Organic Compounds 1,600 g/l

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

Light.

10.5 Incompatible materials

Strong bases.
Amines.
Alcohols.

Substance

10.6 Hazardous decomposition products

Hydrogen Fluoride At elevated temperatures. - extreme conditions of

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. Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

Condition

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 3M assessments.

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

No known health effects.

Skin contact

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

Eve contact

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

Ingestion

May be harmful if swallowed.

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

reduce Toxicity			
Name	Route	Species	Value
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Dermal	Rat	LD50 > 2,000 mg/kg
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Inhalation- Vapour (4 hours)	Rat	LC50 > 1,227 mg/l
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	Guinea	Not sensitising
	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
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	In Vitro	Not mutagenic
1,1,1,2,2,4,5,5,5-Nonafluoro-4-(trifluoromethyl)-3-pentanone	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 Duration
1,1,1,2,2,4,5,5,5-Nonafluoro-4- (trifluoromethyl)-3-pentanone	Inhalation	Not toxic to female reproduction	Rat	NOAEL 3,000 ppm	premating & during gestation
1,1,1,2,2,4,5,5,5-Nonafluoro-4- (trifluoromethyl)-3-pentanone	Inhalation	Not toxic to male reproduction	Rat	NOAEL 3,000 ppm	premating & during gestation
1,1,1,2,2,4,5,5,5-Nonafluoro-4- (trifluoromethyl)-3-pentanone	Inhalation	Not toxic to development	Rat	NOAEL 3,000 ppm	premating & during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1,1,1,2,2,4,5,5,5 Nonafluoro-4- (trifluoromethyl)-3- pentanone	Inhalation	nervous system	All data are negative	Rat	NOAEL 100,000 ppm	2 hours
1,1,1,2,2,4,5,5,5 Nonafluoro-4- (trifluoromethyl)-3- pentanone	Inhalation	cardiac sensitisation	All data are negative	Dog	Sensitization Negative	17 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Inhalation	liver kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 3,000 ppm	90 days
1,1,1,2,2,4,5,5,5- Nonafluoro-4- (trifluoromethyl)-3- pentanone	Inhalation	heart endocrine system hematopoietic system muscles nervous system respiratory system vascular system	All data are negative	Rat	NOAEL 3,000 ppm	90 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.

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

No component test data available.

Material	Organism	Туре	Exposure	Test endpoint	Test result
3M TM Novec TM	Green algae	Estimated	72 hours	EC50	7.7 mg/l
612 Magnesium					_
Protection Fluid					
3M TM Novec TM	Zebra Fish	Estimated	96 hours	LC50	>1,200 mg/l
612 Magnesium					_
Protection Fluid					
3M TM Novec TM	Water flea	Estimated	48 hours	EC50	>1,200 mg/l
612 Magnesium					_
Protection Fluid					
3M TM Novec TM	Green algae	Estimated	72 hours	NOEC	1.2 mg/l
612 Magnesium					
Protection Fluid					

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
1,1,1,2,2,4,5,5,	756-13-8	Experimental	28 days	CO2 evolution	3 % weight	OECD 301B - Modified
5-Nonafluoro-		Aquatic				sturm or CO2
4-		Biodegrad				
(trifluoromethy		Aerobic				
1)-3-pentanone						
1,1,1,2,2,4,5,5,	756-13-8	Experimental		Photolytic half-	7.3 days (t 1/2)	Other methods
5-Nonafluoro-		Photolysis		life (in air)		
4-						
(trifluoromethy						
1)-3-pentanone						
1,1,1,2,2,4,5,5,	756-13-8	Experimental		Hydrolytic	<2.5 minutes (t	Other methods
5-Nonafluoro-		Hydrolysis		half-life	1/2)	
4-						
(trifluoromethy						
1)-3-pentanone						

12.3 : Bioaccumulative potential

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
1,1,1,2,2,4,5,5,	756-13-8	Experimental	28 days	Bioaccumulatio	<4.8	OECD 305E -
5-Nonafluoro-		BCF-Carp	-	n factor		Bioaccumulation flow-
4-						through fish test
(trifluoromethy						
1)-3-pentanone						

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

Material	CAS Nbr	Ozone Depletion Potential Global Warming Potential
1,1,1,2,2,4,5,5,5-	756-13-8	0
nonafluoro-4-		
(trifluoromethyl)-3-		
pentanone		

SECTION 13: Disposal considerations

13.1 Waste treatment methods

See Section 11.1 Information on toxicological effects

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. Facility must be capable of handling halogenated materials. 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.

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

98-0212-3435-0

Not hazardous for transportation

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. One or more of the components of this product have been notified to ELINCS (European List of Notified or New Chemical Substances). Certain restrictions apply. Contact the selling division for additional information. The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional 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 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. The components of this product are in compliance with the chemical notification requirements of TSCA.

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

List of relevant H statements

H412 Harmful to aquatic life with long lasting effects.

Revision information:

Magnesium Covering Gas: Section 16: Annex information was modified.

Section 3: Reference to section 15 for Nota info information was deleted.

Section 5: Hazardous combustion products table information was modified.

Section 7: Conditions safe storage information was modified.

Section 7: Precautions safe handling information information was modified.

Section 8: PNEC table row information was modified.

Section 9: Property description for optional properties information was added.

Section 9: Property description for optional properties information was deleted.

Section 9: Viscosity information information was modified.

Section 11: Acute Toxicity table information was modified.

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

Prints No Data if Adverse effects information is not present information was deleted.

Section 12: Persistence and Degradability information information was modified.

Section 12:Bioccumulative potential information information was modified.

Section 15: Regulations - Inventories information was modified.

Annex: Prediction of exposure statement information was modified.

Annex

1. Title	
Substance identification	
Substance identification	CAS Nbr 756-13-8;
	EC No. 436-710-6
Exposure Scenario Name	Magnesium Covering Gas
Identified uses	PROC 04, ERC 04, SU 03 ;
Processes, tasks and activities covered	Spraying of substances/mixtures.
2. Operational conditions and risk mana	gement measures
Operating Conditions	
	General operating conditions:
	Continuous release;
	Duration of exposure per day at workplace [for one worker]: 8 hours/day;
	Emission days per year: 300;
	Frequency of exposure at workplace [for one worker]: 220 days/year;
	Indoor use without Local Exhaust Ventilation;
	Large factory building (> 500 m ³);
	Partially open and partially closed process;
Risk management measures	Under the operational conditions described above the following risk management
	measures apply:
	General risk management measures:
	Human health:
	None needed;

	Environmental: None needed;
Waste management measures	Do not release to waterways or sewers; Incinerate in a permitted hazardous waste incinerator;
3. Prediction of exposure	
Prediction of exposure	

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