

# SAFETY DATA SHEET

### Ammonia 7M in Methanol

According to the REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 No. 1577, as amended.

### 1.1. Product identifier

Product name	Ammonia 7M in Methanol
Product number	90027183
CAS number	7664-41-7
EC number	231-635-3
1.2. Relevant identified use	s of the substance or mixture and uses advised against
Identified uses	For research purposes only.
Uses advised against	No specific uses advised against are identified.
1.3. Details of the supplier of	of the safety data sheet
Supplier	Molekula Ltd.
	Lingfield Way,

Lingfield Way,
Darlington,
DL1 4XX,
United Kingdom
+44 (0) 3302000333
info@molekula.com

#### 1.4. Emergency telephone number

+44 (0) 7769276927

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture		
Classification (SI 2019 No. 7	20)	
Physical hazards	Flam. Liq. 2 - H225	
Health hazards	Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT SE 1 - H370	
Environmental hazards	Aquatic Chronic 2 - H411	
2.2. Label elements		
EC number	231-635-3	
Hazard pictograms		
Signal word	Danger	

1/12

Hazard statements	H225 Highly flammable liquid and vapour. H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H314 Causes severe skin burns and eye damage. H370 Causes damage to organs . H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P240 Ground and bond container and receiving equipment.</li> <li>P241 Use explosion-proof electrical equipment.</li> <li>P242 Use non-sparking tools.</li> <li>P243 Take action to prevent static discharges.</li> <li>P260 Do not breathe vapour/ spray.</li> <li>P261 Avoid breathing vapour/ spray.</li> <li>P264 Wash contaminated skin thoroughly after handling.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P273 Avoid release to the environment.</li> <li>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</li> <li>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.</li> <li>P301+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</li> <li>P302+P352 IF ON SKIN: Wash with plenty of water.</li> <li>P303+P331 IF SWALLOWED: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P311 IF exposed or concerned: Call a POISON CENTER or doctor.</li> <li>P311 Call a POISON CENTER/ doctor.</li> <li>P312 Call a POISON CENTER/ doctor.</li> <li>P314 P341 IF exposed or concerned: Call a POISON CENTER or doctor.</li> <li>P311 Call a POISON CENTER/ doctor.</li> <li>P312 Call a POISON CENTER/ doctor.</li> <li>P312 Call a POISON CENTER/ doctor.</li> <li>P314 P344 Take off immediately all contaminated clothing and wash it before reuse.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</li> <li>P391 Collect spillage.</li> <li>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405+P235 Store locked up.</li> <li>P501 Dispose of contents/ container in accordance with national regulations.</li> </ul>
Supplemental label information	EUH071 Corrosive to the respiratory tract.
Contains	Methanol, ammonia, anhydrous

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2.3. Other hazards
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This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Methanol		88%
CAS number: 67-56-1	EC number: 200-659-6	
Classification		
Flam. Liq. 2 - H225		
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		
ammonia, anhydrous		12%
CAS number: 7664-41-7	EC number: 231-635-3	
M factor (Acute) = 1	M factor (Chronic) = 1	
Classification		
Flam. Gas 2 - H221		
Press. Gas (Comp.) - H280		
Acute Tox. 3 - H331		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### **SECTION 4: First aid measures** 4.1. Description of first aid measures General information Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel. Chemical burns must be treated by a physician. Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention. Place unconscious person on their side in the recovery position and ensure breathing can take place. Ingestion Get medical attention immediately. Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Never give anything by mouth to an unconscious person. Place unconscious person on their side in the recovery position and ensure breathing can take place. Keep affected person under observation. Skin contact It is important to remove the substance from the skin immediately. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. Chemical burns must be treated by a physician. Eye contact Rinse immediately with plenty of water. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention. Protection of first aiders It may be dangerous for first aid personnel to carry out mouth-to-mouth resuscitation. 4.2. Most important symptoms and effects, both acute and delayed **General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation       A single exposure may cause the following adverse effects: Severe initiation of nose and threat. Symptoms following overexposure may include the following: Corrosive to the respiratory tract.         Ingestion       May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.         Skin contact       Causes severe burns. Symptoms following overexposure may include the following: Pain or initiation. Rechess. Bilstering may occur.         Eye contact       Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Rechess.         A.1. Indication of any immediate medical attention and special treatment needed         Notes for the doctor       Treat symptomatically. Keep affected person under observation.         SECTION 5: Firefighting media       The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.         J.2. Special hazards arising from the substance or mkture       Special hazards arising media with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire or another with one explosion may be ignited by a spark, a hot surface or an ember.         Special hazards arising from the substance or mkture       Special hazards arising media is toxic. Severe corrosive hazard. Water used for fire extinguishing, which has been in contact with the product, may be corrosive.         Hazardous combustion       Therat hypo		
overexposure may include the following: Severe stomach pain. Nausea, vomiting.         Skin contact       Causes severe burns. Symptoms following overexposure may include the following: Pain or irrittation. Redness. Blistering may occur.         Eye contact       Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.         4.3. Indication of any immediate medical attention and special treatment needed         Notes for the doctor       Treat symptomatically. Keep affected person under observation.         SECTION 5: Firefighting media       The product is flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.         Unsuitable extinguishing media       Do not use water jet as an extinguisher, as this will spread the fire.         Specific hazards       Containers can burst violently or explode when heated, due to excessive pressure build-up. Flammable liquid and vapour. Vapours may be ignited by a spark, a hot surface or an ember. Vapours may form explosive mixtures with air. Fire-water run-off in severs may create fire or explosion hazard. This product is toxic. Severe corrosive.         Hazardous combustion products       Avoid breathing fire gases or vapours.         5.3. Advice for firefighters       Avoid breathing fire gases or vapours.         Protective actions during fire split has not ignited, use water spray and remove them from the fire as if it can be done without risk. Cool containers exposed to flames with water uil well after the fire is is out, fire leaks or sig	Inhalation	throat. Symptoms following overexposure may include the following: Corrosive to the
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SECTION 6: Accidental release measures		self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's
	SECTION 6: Accidental release	e measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be
	taken without appropriate training or involving any personal risk. Do not touch or walk into
	spilled material. Evacuate area. Provide adequate ventilation. No smoking, sparks, flames or
	other sources of ignition near spillage. Promptly remove any clothing that becomes
	contaminated. Avoid inhalation of vapours and spray/mists. Use suitable respiratory protection
	if ventilation is inadequate. Avoid contact with skin and eyes.

#### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Eliminate all ignition sources if safe to do so. No smoking, sparks, flames or other sources of ignition near spillage. Do not allow material to enter confined spaces, due to the risk of explosion. This product is corrosive. Provide adequate ventilation. Absorb small quantities with paper towels and evaporate in a safe place. Once evaporation is complete, place paper in a suitable waste disposal container and seal securely. Large Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. The contaminated absorbent may pose the same hazard as the spilled material. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dangerous for the environment. Do not empty into drains. For waste disposal see Section 13
	environment. Do not empty into drains. For waste disposal, see Section 13.

#### 6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Usage precautions	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. The product is flammable. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. This product is toxic. This product is corrosive. Immediate first aid is imperative. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.	
Advice on general occupational hygiene	Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage precautions	Store away from incompatible materials (see Section 10). Store locked up. Keep away from oxidising materials, heat and flames. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Store at temperatures between 2°C/35.6°F and 8°C/46.4°F.	
	Hygroscopic.	
	Moisture sensitive. Store under inert gas.	
Storage class	Flammable liquid storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls/Personal protection		

#### 8.1. Control parameters

#### Occupational exposure limits

#### Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m<sup>3</sup> Sk

#### ammonia, anhydrous

Long-term exposure limit (8-hour TWA): WEL 25 ppm 18 mg/m<sup>3</sup> Short-term exposure limit (15-minute): WEL 35 ppm 25 mg/m<sup>3</sup> WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

#### STEL:

TWA:

#### 8.2. Exposure controls



Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Ensure the ventilation system is regularly maintained and tested. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full- face respirator may be required instead.
Hand protection	Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, wear gloves that are proven to be impervious to the chemical and resist degradation. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygiene measures	Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.
Respiratory protection	Ensure all respiratory protective equipment is suitable for its intended use and is 'UKCA'- marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges suitable for intended use should be used. Full face mask respirators with replaceable filter cartridges suitable for intended use should be used. Half mask and quarter mask respirators with replaceable filter cartridges suitable for intended use should be used.
Environmental exposure controls	Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.	
Colour	Colourless. to Light (or pale). Yellow.	
Odour	Not known.	
Odour threshold	No information available.	
рН	No information available.	
Melting point	No information available.	
Initial boiling point and range	No information available.	
Flash point	14°C/57.2°F	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	No information available.	
Vapour density	No information available.	
Relative density	0.779	
Solubility(ies)	No information available.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	
9.2. Other information		
Molecular weight	17.03	
SECTION 10: Stability and rea	activity	
10.1. Reactivity		
Reactivity	See the other subsections of this section for further details.	
10.2. Chemical stability		
Stability	Stable under the prescribed storage conditions.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	The following materials may react strongly with the product: Oxidising agents.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented. Protect from moisture.	

10.5. Incompatible materials

Materials to avoid	Oxidising materials.
	Acids - oxidising.
	Strong oxidising agents.
	Acid chlorides
	Acid anhydrides.
	Strong reducing agents.
	Water
	halogens

#### 10.6. Hazardous decomposition products

Hazardous decomposition<br/>productsDoes not decompose when used and stored as recommended. Thermal decomposition or<br/>combustion products may include the following substances: Corrosive gases or vapours.

### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects	
Acute toxicity - oral	
Summary	Toxic if swallowed.
ATE oral (mg/kg)	113.64
Acute toxicity - dermal	
Summary	Toxic in contact with skin.
ATE dermal (mg/kg)	340.91
Acute toxicity - inhalation	
Summary	Toxic if inhaled.
ATE inhalation (vapours mg/l)	3.15
Skin corrosion/irritation	
Summary	Causes severe skin burns and eye damage.
Serious eye damage/irritation	
Summary	Causes serious eye damage.
Respiratory sensitisation	
Summary	Based on available data the classification criteria are not met.
Skin sensitisation	
Summary	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Summary	Based on available data the classification criteria are not met.
Carcinogenicity	
Summary	Based on available data the classification criteria are not met.
IARC carcinogenicity	None of the ingredients are listed or exempt.
Reproductive toxicity	
Summary	Based on available data the classification criteria are not met.
Specific target organ toxicity - single exposure	
Summary	Causes damage to organs . Corrosive to the respiratory tract.
Target organs	Respiratory system, lungs
Specific target organ toxicity - repeated exposure	

Summary	Based on available data the classification criteria are not met.
Aspiration hazard	
Summary	Based on available data the classification criteria are not met.
General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Corrosive to the respiratory tract. Symptoms following overexposure may include the following: Severe irritation of nose and throat.
Ingestion	May cause chemical burns in mouth, oesophagus and stomach. Symptoms following overexposure may include the following: Severe stomach pain. Nausea, vomiting.
Skin contact	Causes severe burns. Symptoms following overexposure may include the following: Pain or irritation. Redness. Blistering may occur.
Eye contact	Causes serious eye damage. Symptoms following overexposure may include the following: Pain. Profuse watering of the eyes. Redness.
Route of exposure	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
SECTION 12: Ecological information	
SECTION 12: Ecological Infor	mauon
12.1. Toxicity	
12.1. Toxicity	Based on available data the classification criteria are not met.
12.1. Toxicity Acute aquatic toxicity	
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary	
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects.
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity Summary <u>12.2. Persistence and degrad</u>	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects.
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity Summary <u>12.2. Persistence and degrad</u>	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. ability The degradability of the product is not known.
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity Summary <u>12.2. Persistence and degrad</u> Persistence and degradability	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. ability The degradability of the product is not known.
<u>12.1. Toxicity</u> Acute aquatic toxicity Summary Chronic aquatic toxicity Summary <u>12.2. Persistence and degrad</u> Persistence and degradability <u>12.3. Bioaccumulative potenti</u>	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. Ability The degradability of the product is not known.
12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. Ability The degradability of the product is not known. Al No data available on bioaccumulation.
12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. Ability The degradability of the product is not known. Al No data available on bioaccumulation.
12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. <b>ability</b> The degradability of the product is not known. <b>al</b> No data available on bioaccumulation. No information available.
12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil         Mobility	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. <b>ability</b> The degradability of the product is not known. <b>al</b> No data available on bioaccumulation. No information available.
12.1. Toxicity         Acute aquatic toxicity         Summary         Chronic aquatic toxicity         Summary         12.2. Persistence and degrad         Persistence and degradability         12.3. Bioaccumulative potential         Bioaccumulative potential         Partition coefficient         12.4. Mobility in soil         Mobility         12.5. Results of PBT and vPv	Based on available data the classification criteria are not met. Toxic to aquatic life with long lasting effects. <b>ability</b> The degradability of the product is not known. <b>al</b> No data available on bioaccumulation. No information available.

# SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** 

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods	Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible.
SECTION 14: Transport inform	nation
14.1. UN number	
UN No. (ADR/RID)	3286
UN No. (IMDG)	3286
UN No. (ICAO)	3286
UN No. (ADN)	3286
14.2. UN proper shipping name	e
Proper shipping name (ADR/RID)	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (CONTAINS Methanol)
Proper shipping name (IMDG)	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (CONTAINS Methanol, Ammonia)
Proper shipping name (ICAO)	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (CONTAINS Methanol)
Proper shipping name (ADN)	FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. (CONTAINS Methanol)
14.3. Transport hazard class(e	<u>s)</u>
ADR/RID class	3
ADR/RID subsidiary risk	6.1,8
ADR/RID classification code	FTC
ADR/RID label	3
IMDG class	3
IMDG subsidiary risk	6.1,8
ICAO class/division	3
ICAO subsidiary risk	6.1,8
ADN class	3
ADN subsidiary risk	6.1,8
Transport labels	
	B
14.4. Packing group	
ADR/RID packing group	II

ADR/RID packing group	II
IMDG packing group	П
ICAO packing group	II
ADN packing group	П
14.5. Environmental hazards	

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS	F-E, S-C
ADR transport category	2
Emergency Action Code	•3WE
Hazard Identification Number (ADR/RID)	368

Tunnel restriction code (D/E)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### **SECTION 15: Regulatory information**

National regulationsHealth and Safety at Work etc. Act 1974 (as amended).<br/>The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment<br/>Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].<br/>EH40/2005 Workplace exposure limits.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

#### **EU - EINECS/ELINCS**

None of the ingredients are listed or exempt.

#### **SECTION 16: Other information**

Abbreviations and acronyms used in the safety data sheet	ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
	ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
	RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. IATA: International Air Transport Association.
	ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
	IMDG: International Maritime Dangerous Goods.
	CAS: Chemical Abstracts Service.
	ATE: Acute Toxicity Estimate.
	LC50: Lethal Concentration to 50 % of a test population.
	LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).
	EC₅₀: 50% of maximal Effective Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations and acronyms	Flam. Liq. = Flammable liquid Acute Tox. = Acute toxicity Eye Dam. = Serious eye damage Skin Corr. = Skin corrosion STOT SE = Specific target organ toxicity-single exposure Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Classification procedures according to SI 2019 No. 720	Acute Tox. 3 - H311: Acute Tox. 3 - H331: Acute Tox. 3 - H301: Eye Dam. 1 - H318: Skin Corr. 1B - H314: STOT SE 1 - H370: : Calculation method. Aquatic Chronic 2 - H411: : Calculation method. Flam. Liq. 2 - H225: : Expert judgement.
Training advice	Only trained personnel should use this material.
Revision date	26/01/2023
Revision	2
Supersedes date	01/04/2022
SDS number	822
Hazard statements in full	<ul> <li>H221 Flammable gas.</li> <li>H225 Highly flammable liquid and vapour.</li> <li>H280 Contains gas under pressure; may explode if heated.</li> <li>H301 Toxic if swallowed.</li> <li>H311 Toxic in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H318 Causes serious eye damage.</li> <li>H331 Toxic if inhaled.</li> <li>H370 Causes damage to organs .</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.