

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 1 of 12

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

KEM ES, Comp. A

UFI: WYUV-607M-E00W-7W67

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Adhesive mortar for fastening elements A-component (resin)  
For professional users only**Uses advised against**

no restriction

**1.3. Details of the supplier of the safety data sheet**

Company name: FRIULSIDER S.p.A.  
Street: Via Trieste 1  
Place: I-33048 San Giovanni al Natisone, Udine  
Telephone: +(39) 0432 747911  
Internet: www.friulsider.com  
Responsible Department: environmental@friulsider.com; info@friulsider.com

**1.4. Emergency telephone number:** Company +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
Skin Sens. 1; H317  
Repr. 1B; H360F  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**bis-[4-(2,3-epoxipropoxy)phenyl] propane;  
1,6-Hexanediol diglycidyl ether**Signal word:** Danger**Pictograms:****Hazard statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. A

Revision date: 01.02.2025

Page 2 of 12

#### Precautionary statements

P261	Avoid breathing vapours.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing and eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### Special labelling of certain mixtures

EUH205	Contains epoxy constituents. May produce an allergic reaction.
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#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

People who are allergic to epoxide should avoid the use of the product.

Use only outdoors or in a well-ventilated area.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

For professional users only.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			30 - < 60 %
	216-823-5	603-073-00-2	01-2119456619-26	
	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2; H315 H319 H317 H411			
933999-84-9	1,6-Hexanediol diglycidyl ether			10 - < 15 %
	618-939-5		01-2119463471-41	
	Repr. 1B, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, H360F H315 H319 H317			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
1675-54-3	216-823-5	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane	30 - < 60 %
	dermal: LD50 = 23000 mg/kg; oral: LD50 = 15000 mg/kg Skin Irrit. 2; H315: >= 5 - 100 Eye Irrit. 2; H319: >= 5 - 100		
933999-84-9	618-939-5	1,6-Hexanediol diglycidyl ether	10 - < 15 %
	dermal: LD50 = >4900 mg/kg; oral: LD50 = 8500 mg/kg		

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 3 of 12

**General information**

First aider: Pay attention to self-protection! Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May damage fertility.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

- Foam
- Extinguishing powder
- Water spray jet
- Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

- Full water jet

**5.2. Special hazards arising from the substance or mixture**

- Pyrolysis products, toxic
- Carbon monoxide

**5.3. Advice for firefighters**

- In case of fire and/or explosion do not breathe fumes.
- Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit

**Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

**6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 4 of 12

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

**For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

**Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Keep only in the original container in a cool, well-ventilated place.

**Hints on joint storage**

Do not store together with: Oxidising agent, strong

Do not use for products which come into contact with the food stuffs.

**Further information on storage conditions**

storage temperature: 5 - 35°C

**7.3. Specific end use(s)**

Adhesive mortar for fastening elements A-component (resin)

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane			
Worker , acute		dermal	systemic	8.3 mg/kg bw/day
Worker , acute		inhalation	systemic	12.3 mg/m <sup>3</sup>
933999-84-9	1,6-Hexanediol diglycidyl ether			
Worker DNEL,		dermal		1.7 mg/kg bw/day
Worker DNEL,		inhalation		2.9 mg/m <sup>3</sup>

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 5 of 12

**PNEC values**

CAS No	Substance	Value
933999-84-9	1,6-Hexanediol diglycidyl ether	
Freshwater		0,0115 mg/l
Marine water		0,00115 mg/l
Freshwater sediment		0,283 mg/kg
Marine sediment		0,283 mg/kg

**Additional advice on limit values**

To date, no national critical limit values exist.

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye protection/face protection. Wear safety glasses.

**Hand protection**

Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: 0,7 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2 (organic gases/vapors and particles)

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical state:	solid (pasty)	
Colour:	light beige	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 6 of 12

Boiling point or initial boiling point and boiling range:	No data available
Flammability:	Non-flammable.
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
Decomposition temperature:	No data available
pH-Value:	The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:	not applicable
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents	
No data available	
Partition coefficient n-octanol/water:	not applicable
Vapour pressure:	No data available
Density (at 20 °C):	1,45 g/cm <sup>3</sup>
Relative vapour density:	not applicable
Particle characteristics:	No data available

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Self-ignition temperature

Solid:

not applicable

## Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

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

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent, strong

**10.4. Conditions to avoid**

Heat. Keep cool. Protect from sunlight.

**10.5. Incompatible materials**

Keep away from: Oxidizing agent

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 7 of 12

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane				
	oral	LD50 mg/kg	15000	Rat	
	dermal	LD50 mg/kg	23000	Rabbit	
933999-84-9	1,6-Hexanediol diglycidyl ether				
	oral	LD50 mg/kg	8500	Rat	
	dermal	LD50 mg/kg	>4900	Rabbit	

**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

**Sensitising effects**

May cause an allergic skin reaction. (2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane; 1,6-Hexanediol diglycidyl ether)

Contains epoxy constituents. May produce an allergic reaction.

**Carcinogenic/mutagenic/toxic effects for reproduction**

May damage fertility. (1,6-Hexanediol diglycidyl ether)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity:

1,6-Hexanediol diglycidyl ether

NOAEL F0, F1= 55 mg/kg

Species: rat, male

Exposure route: oral

Method: OECD 443

NOAEL F0, F1= 300 mg/kg

Species: rat, female

Exposure route: oral

Method: OECD 443

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. A

Revision date: 01.02.2025

Page 8 of 12

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### 11.2. Information on other hazards

##### Endocrine disrupting properties

CAS No. 1675-54-3: inconclusive outcome (ECHA's endocrine disruptor (ED) assessment list)

### SECTION 12: Ecological information

#### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
1675-54-3	2,2'-[(1-Methylethylidene)bis(4,1-phenyleneoxymethylene)]bisoxirane					
	Acute fish toxicity	LC50	2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50	11 mg/l	72 h		
	Acute crustacea toxicity	EC50	1.8 mg/l	48 h	Daphnia magna (Big water flea)	
933999-84-9	1,6-Hexanediol diglycidyl ether					
	Acute fish toxicity	LC50	30 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute crustacea toxicity	EC50	47 mg/l	48 h	Daphnia magna (Big water flea)	

#### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
933999-84-9	1,6-Hexanediol diglycidyl ether			
	OECD 301D	47 %	28	

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
933999-84-9	1,6-Hexanediol diglycidyl ether	0,822

#### BCF

CAS No	Chemical name	BCF	Species	Source
933999-84-9	1,6-Hexanediol diglycidyl ether	3,57		

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

#### 12.6. Endocrine disrupting properties

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 9 of 12

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN 3077
<b>14.2. UN proper shipping name:</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)
<b>14.3. Transport hazard class(es):</b>	9
<b>14.4. Packing group:</b>	III
Hazard label:	9



Classification code:	M7
Special Provisions:	274 335 375 601
Limited quantity:	5 kg
Excepted quantity:	E1
Transport category:	3
Hazard No:	90
Tunnel restriction code:	-

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 10 of 12

**Other applicable information (land transport)**

No dangerous goods in packaging until 5 kg according special instruction 375 ADR/RID

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Classification code: M7  
Special Provisions: 274 335 375 601  
Limited quantity: 5 kg  
Excepted quantity: E1

**Other applicable information (inland waterways transport)**

No dangerous goods in packaging until 5 kg according special instruction 375 ADN

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: 274, 335, 966, 967, 969  
Limited quantity: 5 kg  
Excepted quantity: E1  
EmS: F-A, S-F

**Other applicable information (marine transport)**

No dangerous goods in packaging until 5kg according 2.10.2.7 IMDG Code

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Epoxy resin)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A179 A197 A215  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y956  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 956  
IATA-max. quantity - Passenger: 400 kg

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. A**

Revision date: 01.02.2025

Page 11 of 12

IATA-packing instructions - Cargo: 956  
IATA-max. quantity - Cargo: 400 kg**Other applicable information (air transport)**

No dangerous goods in packaging until 5 kg according A197 IATA-DGA

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: Yes

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive 2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

**Additional information**

VOC content: &lt; 0,1 % (DIN EN ISO 11890-2)

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

DNEL: Derived No Effect Level

EC50: Effective concentration, 50%

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. A

Revision date: 01.02.2025

Page 12 of 12

IATA: International Air Transport Association  
 IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
 ICAO: International Civil Aviation Organization  
 IC50: Inhibitory concentration, 50%  
 IMDG: International Maritime Code for Dangerous Goods  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 NOEC: No Observed Effect Concentration  
 OECD: Organisation for Economic Co-operation and Development  
 PBT: persistent, bioaccumulative and toxic  
 vPvB: very persistent and very bioaccumulative  
 PNEC: Predicted No Effect Concentration  
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
 VOC: Volatile organic compound  
 Aquatic Chronic 2: Long-term aquatic hazard, Category 2  
 Aquatic Chronic 3: Long-term aquatic hazard, Category 3

#### Key literature references and sources for data

Website European Chemicals Agency: <https://echa.europa.eu>  
 Data sources: Supplier

#### Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Repr. 1B; H360F	Calculation method
Aquatic Chronic 2; H411	Calculation method

#### Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H360F May damage fertility.  
 H411 Toxic to aquatic life with long lasting effects.  
 EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 1 of 14

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

KEM ES, Comp. B

UFI: DDUTV-M08F-F00G-MFMD

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Compound mortar B-component (hardener)  
For professional users only**Uses advised against**

no restriction

**1.3. Details of the supplier of the safety data sheet**

Company name: FRIULSIDER S.p.A.  
Street: Via Trieste 1  
Place: I-33048 San Giovanni al Natisone, Udine  
Telephone: +(39) 0432747911  
Internet: www.friulsider.com  
Responsible Department: environmental@friulsider.com; info@friulsider.com

**1.4. Emergency telephone number:**

Company +39 0432 747911 Monday-Friday 8:30 am - 5:30 pm

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**Acute Tox. 4; H302  
Skin Corr. 1A; H314  
Eye Dam. 1; H318  
Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine;  
m-Phenylenebis(methylamine);  
2,4,6-Tris(dimethylaminomethyl)phenol**Signal word:** Danger**Pictograms:****Hazard statements**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.

**Precautionary statements**

P260 Do not breathe dusts or mists.  
P280 Wear protective gloves/protective clothing and eye protection/face protection.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. B

Revision date: 01.02.2025

Page 2 of 14

- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/ container in accordance with local/national regulation.

#### Special labelling of certain mixtures

EUH071 Corrosive to the respiratory tract.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Contains Amines. May produce an allergic reaction.  
Use only outdoors or in a well-ventilated area.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No 1272/2008)	
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	25 - < 35 %
	247-063-2	01-2119560598-25
	Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, Skin Sens. 1A; H302 H314 H318 H317	
1477-55-0	m-Phenylenebis(methylamine)	1 - < 8 %
	216-032-5	01-2119480150-50
	Acute Tox. 4, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1B, Aquatic Chronic 3; H332 H302 H314 H318 H317 H412 EUH071	
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	5 - < 10 %
	202-013-9	603-069-00-0
	01-2119560597-27	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2; H302 H315 H319	
104-15-4	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	1 - < 5 %
	203-180-0	016-030-00-2
	01-2119538811-39	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335	

Full text of H and EUH statements: see section 16.

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 3 of 14

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
25513-64-8	247-063-2	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	25 - < 35 %
		oral: LD50 = 910 mg/kg	
1477-55-0	216-032-5	m-Phenylenebis(methylamine)	1 - < 8 %
		inhalation: LC50 = 1,34 mg/l (dusts or mists); dermal: LD50 = > 3100 mg/kg; oral: LD50 = 930 mg/kg	
90-72-2	202-013-9	2,4,6-Tris(dimethylaminomethyl)phenol	5 - < 10 %
		oral: LD50 = 2169 mg/kg	
104-15-4	203-180-0	p-toluenesulphonic acid (containing a maximum of 5 % H2SO4)	1 - < 5 %
		inhalation: LC50 = 50 - 100 mg/l (vapours) STOT SE 3; H335: >= 20 - 100	

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

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Get medical advice/attention if you feel unwell.

**After inhalation**

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water. Medical treatment necessary.

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

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam

Extinguishing powder

Water spray jet

Carbon dioxide (CO2)

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

Pyrolysis products, toxic

Carbon monoxide

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. B

Revision date: 01.02.2025

Page 4 of 14

#### **5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.

Wear a self-contained breathing apparatus and chemical protective clothing.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

##### **General advice**

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Provide adequate ventilation.

#### **6.2. Environmental precautions**

Avoid release to the environment. Do not allow to enter into surface water or drains.

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

##### **For cleaning up**

Collect spillage. Take up mechanically, placing in appropriate containers for disposal. Suitable material for taking up: Sand

Treat the recovered material as prescribed in the section on waste disposal.

Retain contaminated washing water and dispose it.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Use only outdoors or in a well-ventilated area.

Wear personal protection equipment (refer to section 8).

Avoid contact with skin, eyes and clothes.

When using do not eat, drink or smoke.

##### **Advice on general occupational hygiene**

Take off contaminated clothing and wash it before reuse. Draw up and observe skin protection programme. Wash hands thoroughly after handling. When using do not eat, drink or smoke.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed.

Store in a place accessible by authorized persons only.

Keep only in the original container in a cool, well-ventilated place.

##### **Hints on joint storage**

Do not store together with: Oxidising agent, strong, Organic peroxides

Do not use for products which come into contact with the food stuffs.

##### **Further information on storage conditions**

Keep container tightly closed in a cool place.

storage temperature: 5 - 35°C

#### **7.3. Specific end use(s)**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 5 of 14

see section 1.2

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1477-55-0	m-Xylene alpha,alpha'-diamine (m-phenylenebis(methylamine))		0.1		TWA (8 h)	

**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine			
	Consumer DNEL, long-term	oral	systemic	0,05 mg/kg bw/day
1477-55-0	m-Phenylenebis(methylamine)			
	Worker DNEL, long-term	inhalation	systemic	1,2 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	0,2 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	0,33 mg/kg bw/day
104-15-4	p-Toluenesulphonic acid			
	Worker DNEL, long-term	dermal	systemic	7,6 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	53,6 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	2,5 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	8,7 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	0,05 mg/kg bw/day

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 6 of 14

**PNEC values**

CAS No	Substance		Value
Environmental compartment			
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine		
Freshwater			0,102 mg/l
Marine water			0,01 mg/l
Freshwater sediment			0,662 mg/kg
Marine sediment			0,062 mg/kg
Micro-organisms in sewage treatment plants (STP)			
1477-55-0	m-Phenylenebis(methylamine)		72 mg/l
Freshwater			0,094 mg/l
Marine water			0,009 mg/l
Freshwater sediment			0,43 mg/kg
Marine sediment			0,043 mg/kg
Micro-organisms in sewage treatment plants (STP)			
Soil			0,045 mg/kg
104-15-4	p-Toluenesulphonic acid		
Freshwater			0,073 mg/l
Marine water			0,0073 mg/l
Freshwater sediment			0,0577 mg/kg
Marine sediment			0,00577 mg/kg
Soil			0,016 mg/kg

**Additional advice on limit values**

This mixture contains quartz (inorganic filler) which is firmly bound in the pasty component, and thus not freely available during use, so that a risk of dust inhalation is excluded. Exposure limit values for respirable dusts are not relevant for this product.

**8.2. Exposure controls**



**Appropriate engineering controls**

Provide adequate ventilation. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear eye/face protection. Wear safety glasses.

**Hand protection**

Recommended material: NBR (Nitrile rubber)  
Breakthrough time: > 480 min  
Thickness of the glove material: 0,7 mm  
DIN-/EN-Norms EN 374

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 7 of 14

gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear suitable protective clothing.

**Respiratory protection**In case of inadequate ventilation wear respiratory protection. Respiratory protection with combination filter A1P2  
(organic gases/vapors and particles)**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state:	solid (pasty)	
Colour:	grey / red	
Odour:	characteristic	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		No data available
Flammability:		No data available
Lower explosion limits:		not applicable
Upper explosion limits:		not applicable
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		No data available
pH-Value:		The study does not need to be conducted because the substance is known to be insoluble in water.
Viscosity / kinematic:		not applicable
Water solubility:		The study does not need to be conducted because the substance is known to be insoluble in water.
Solubility in other solvents		No data available
Partition coefficient n-octanol/water:		not applicable
Vapour pressure:		No data available
Density (at 20 °C):		1,42 g/cm <sup>3</sup>
Relative vapour density:		not applicable
Particle characteristics:		No data available

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

The product is not: Explosive.

## Self-ignition temperature

Solid:

not applicable

## Oxidizing properties

Not oxidising.

**Other safety characteristics**

Evaporation rate:

No data available

Solid content:

No data available

**SECTION 10: Stability and reactivity**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 8 of 14

**10.1. Reactivity**

see section 10.3

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

Violent reaction with: Oxidising agent

**10.4. Conditions to avoid**

see section 7.2

**10.5. Incompatible materials**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information**

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

**Acute toxicity**

Harmful if swallowed.

**ATEmix calculated**

ATE (oral) 1568 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 12,5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine				
	oral	LD50 910 mg/kg	Rat		
1477-55-0	m-Phenylenebis(methylamine)				
	oral	LD50 930 mg/kg	Rat		OECD 401
	dermal	LD50 > 3100 mg/kg	Rabbit		OECD 402
	inhalation (4 h) dust/mist	LC50 1,34 mg/l	Rat		OECD 403
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol				
	oral	LD50 2169 mg/kg	Rat		OECD 401
104-15-4	p-Toluenesulphonic acid				
	inhalation vapour	LC50 50 - 100 mg/l	Rat		

**Irritation and corrosivity**

Skin corrosion/irritation: Causes severe skin burns and eye damage.

Serious eye damage/eye irritation: Causes serious eye damage.

**Sensitising effects**

May cause an allergic skin reaction. (2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))

**Carcinogenic/mutagenic/toxic effects for reproduction**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

### KEM ES, Comp. B

Revision date: 01.02.2025

Page 9 of 14

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

The product is not: Ecotoxic.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878

**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 10 of 14

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine					
	Acute algae toxicity	ErC50 mg/l	43,5	72 h	Selenastrum capricornutum	OECD 201
	Fish toxicity	NOEC mg/l	10,9	30 d	Danio rerio (zebrafish)	OECD 210
	Algae toxicity	NOEC	16 mg/l	3 d	Selenastrum capricornutum	OECD 201
	Crustacea toxicity	NOEC mg/l	1,02	21 d	Daphnia magna (Big water flea)	OECD 211
1477-55-0	m-Phenylenebis(methylamine)					
	Acute fish toxicity	LC50 mg/l	87,6	96 h	Oryzias latipes (Ricefish)	OECD 203
	Acute algae toxicity	ErC50 mg/l	32,1	72 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50 mg/l	15,2	48 h	Daphnia magna (Big water flea)	OECD 202
	Crustacea toxicity	NOEC	4,7 mg/l	21 d	Daphnia magna (Big water flea)	OECD 211
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol					
	Acute fish toxicity	LC50	175 mg/l	96 h	Cyprinus carpio (Common Carp)	
	Acute algae toxicity	ErC50	84 mg/l	72 h	Desmodesmus subspicatus	OECD 201
	Algae toxicity	NOEC mg/l	6,25	3 d	Desmodesmus subspicatus	OECD 201
104-15-4	p-Toluenesulphonic acid					
	Acute fish toxicity	LC50	325 mg/l	96 h	Leuciscus idus (golden orfe)	OECD 203
	Acute algae toxicity	ErC50	73 mg/l	72 h	Selenastrum capricornutum	OECD 201
	Acute crustacea toxicity	EC50 mg/l	>103	48 h	Daphnia magna (Big water flea)	OECD 202

**12.2. Persistence and degradability**

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine			
		7 %	28	
1477-55-0	m-Phenylenebis(methylamine)			
		49 %	28	
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol			
		4 %	28	

**12.3. Bioaccumulative potential**

The product has not been tested.

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 11 of 14

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
25513-64-8	2,2,4(or 2,4,4)-Trimethylhexane-1,6-diamine	-0,3
1477-55-0	m-Phenylenebis(methylamine)	0,18
90-72-2	2,4,6-Tris(dimethylaminomethyl)phenol	-0,66
104-15-4	p-Toluenesulphonic acid	0,41

**BCF**

CAS No	Chemical name	BCF	Species	Source
1477-55-0	m-Phenylenebis(methylamine)	2,69		

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

**List of Wastes Code - residues/unused products**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - used product**

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products); waste adhesives and sealants containing organic solvents or other hazardous substances; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**SECTION 14: Transport information****Land transport (ADR/RID)**

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 12 of 14

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C8  
Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2  
Transport category: 2  
Hazard No: 80  
Tunnel restriction code: E

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Classification code: C8  
Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II  
Hazard label: 8



Special Provisions: 274  
Limited quantity: 1 kg  
Excepted quantity: E2  
EmS: F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** UN 3259  
**14.2. UN proper shipping name:** AMINES, SOLID, CORROSIVE, N.O.S. (2,2,4(or 2,4,4)  
-Trimethylhexane-1,6-diamine; m-Phenylenebis(methylamine))  
**14.3. Transport hazard class(es):** 8  
**14.4. Packing group:** II

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 13 of 14

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

5 kg

Passenger LQ:

Y844

Excepted quantity:

E2

IATA-packing instructions - Passenger:

859

IATA-max. quantity - Passenger:

15 kg

IATA-packing instructions - Cargo:

863

IATA-max. quantity - Cargo:

50 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

No information available.

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Information according to Directive  
2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

**Additional information**

To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

Skin resorption/Sensitization:

Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**ADN: Accord européen relatif au transport international des marchandises Dangereuses par voie de Navigation  
(European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)ADR: Accord européen sur le transport des marchandises dangereuses par route (European Agreement  
concerning the International Carriage of Dangerous Goods by Road)

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labeling and Packaging

DMEL: Derived Minimal Effect level

**Safety Data Sheet**according to Regulation (EC) No 1907/2006 - COMMISSION  
REGULATION (EU) 2020/878**KEM ES, Comp. B**

Revision date: 01.02.2025

Page 14 of 14

DNEL: Derived No Effect Level  
EC50: Effective concentration, 50%  
IATA: International Air Transport Association  
IATA-DGR: Dangerous Goods Regulations (DRG) for the air transport (IATA)  
ICAO: International Civil Aviation Organization  
IC50: Inhibitory concentration, 50%  
IMDG: International Maritime Code for Dangerous Goods  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
PBT: persistent, bioaccumulative and toxic  
vPvB: very persistent and very bioaccumulative  
PNEC: Predicted No Effect Concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses (Regulations Concerning the International Carriage of Dangerous Goods by Rail)  
VOC: Volatile organic compound  
Aquatic Chronic 3: Long-term aquatic hazard, Category 3

**Key literature references and sources for data**

Website European Chemicals Agency: <https://echa.europa.eu>  
Data sources: Supplier

**Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Acute Tox. 4; H302	Calculation method
Skin Corr. 1A; H314	Calculation method
Eye Dam. 1; H318	Calculation method
Skin Sens. 1; H317	Calculation method

**Relevant H and EUH statements (number and full text)**

H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.  
EUH071 Corrosive to the respiratory tract.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*