

legislation



# C2 430 - Etilendiamin (EDA)

Date of	compilation: 30/05/20	022 Version: 1		
SEC	TION 1: IDENTIFIC	CATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1	Product identifier	: C2 430 - Etilendiamin (EDA)		
		Ethylenediamine		
	CAS:	107-15-3		
	EC:	203-468-6		
	Index:	612-006-00-6		
	REACH:	01-2119480383-37-XXXX		
	Other means of identification:			
	Non-applicable			
1.2	Relevant identified uses of the substance or mixture and uses advised against:			
	Relevant uses: Industrial formulation			
	Uses advised against: All uses not specified in this section or in section 7.3			
1.3	Details of the sup	plier of the safety data sheet:		
	ECP d.o.o. Brnčičeva 45 Ljubljana - Slovenia office@ecp.eu www.ecp.si			
1.4		none number: 112		

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture:

# CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 3: Acute toxicity on contact with skin, Category 3, H311 Acute Tox. 4: Acute toxicity, Category 4, H302+H332 Aquatic Chronic 3: Hazardous to the aquatic environment, long-term hazard, Category 3, H412 Flam. Liq. 3: Flammable liquids, Category 3, H226 Resp. Sens. 1B: Sensitisation, respiratory, Category 1B, H334 Skin Corr. 1B: Skin corrosion, Category 1B, H314 Skin Sens. 1B: Sensitisation, skin, Category 1B, H317

# 2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

Danger



#### Hazard statements:

Acute Tox. 3: H311 - Toxic in contact with skin. Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled. Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects. Flam. Liq. 3: H226 - Flammable liquid and vapour. Resp. Sens. 1B: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin Corr. 1B: H314 - Causes severe skin burns and eye damage. Skin Sens. 1B: H317 - May cause an allergic skin reaction. **Precautionary statements:** 



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# SECTION 2: HAZARDS IDENTIFICATION (continued)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261: Avoid breathing vapours.

P280: Wear protective gloves/protective clothing/eye protection.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P501: Dispose of contents/ container in accordance with local/regional/national/international regulation.

#### 2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

Endocrine-disrupting properties: The product fails to meet the criteria.

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substance:

Chemical description: Inorganic substance

#### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

	Identification		Chemical name/Classification	Concentration
CAS:		Ethylenediamine	Self-classified	
	203-468-6 612-006-00-6 : 01-2119480383-37- XXXX	Regulation 1272/2008	Acute Tox. 3: H311; Acute Tox. 4: H302+H332; Aquatic Chronic 3: H412; Flam. Liq. 3: H226; Resp. Sens. 1B: H334; Skin Corr. 1B: H314; Skin Sens. 1B: 🛞 🚸 📀 🌢 H317 - Danger	95 - <100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

#### 3.2 Mixture:

Non-applicable

# SECTION 4: FIRST AID MEASURES

# 4.1 Description of first aid measures:

Request medical assistance immediately, showing the SDS of this product.

#### By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

# By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

# By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

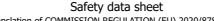
#### By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and also risk damage to the respiratory system through inhalation. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Keep the person affected at rest.

# 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

# 4.3 Indication of any immediate medical attention and special treatment needed:



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# SECTION 4: FIRST AID MEASURES (continued)

Non-applicable

# SECTION 5: FIREFIGHTING MEASURES

# 5.1 Extinguishing media:

# Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO2).

#### Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

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# 5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

# 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

# Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

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

#### For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

# For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

# 6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

# 6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

# 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

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# SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

# 7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

# 7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

There are no applicable occupational exposure limits for the substances contained in the product

# DNEL (Workers):

		Short e	xposure	Long ex	xposure
Identification		Systemic	Local	Systemic	Local
Ethylenediamine	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
CAS: 107-15-3	Dermal	Non-applicable	Non-applicable	3,6 mg/kg	Non-applicable
EC: 203-468-6	Inhalation	Non-applicable	Non-applicable	25 mg/m <sup>3</sup>	Non-applicable

# DNEL (General population):

		Short e	xposure	Long ex	kposure
Identification		Systemic	Local	Systemic	Local
Ethylenediamine	Oral	Non-applicable	Non-applicable	0,275 mg/kg	Non-applicable
CAS: 107-15-3	Dermal	Non-applicable	Non-applicable	Non-applicable	Non-applicable
EC: 203-468-6	Inhalation	Non-applicable	Non-applicable	12,5 mg/m <sup>3</sup>	Non-applicable

PNEC:

Identification				
Ethylenediamine	STP	0,5 mg/L	Fresh water	0,016 mg/L
CAS: 107-15-3	Soil	4,36 mg/kg	Marine water	0,002 mg/L
EC: 203-468-6	Intermittent	0,167 mg/L	Sediment (Fresh water)	7,68 mg/kg
	Oral	0,0049 g/kg	Sediment (Marine water)	0,768 mg/kg

# 8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment



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# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

υ.	respiratory prote	ction			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours		EN 405:2002+A1:2010	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.
C	Specific protection	n for the hands			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatory hand protection	Chemical protective gloves (Material: Butyl, Breakthrough time: > 480 min, Thickness: 0.7 mm)		EN ISO 21420:2020	Replace the gloves at any sign of deterioration.
D	Eye and face prot	ection			
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	Mandatony face	Face shield		EN 166:2002 EN 167:2002 EN 168:2002 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

EN ISO 4007:2018

CEN Standard

EN 1149-1,2,3 EN 13034:2005+A1:2009

EN ISO 13982-

1:2004/A1:2010

EN ISO 20345:2011

EN 13832-1:2019

Remarks

For professional use only. Clean periodically

according to the manufacturer's instructions.

Replace boots at any sign of deterioration.

**CAT II** 

Labelling

CAT III

Mandatory face protection E.- Body protection

Pictogram

Mandatory foot protect

Mandatory complete body protection	risks, with antistatic and fireproof properties	CAT III	EN ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013 EN 464:1994
	Safety footwear for protection against chemical	CE	EN ISO 13287:2020

risk, with antistatic and heat

resistant properties

PPE

Disposable clothing for

protection against chemical

F.- Additional emergency measures

Emergency measure	Standards	Emergency measure	Standards
Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	Evewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

# **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

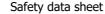
#### 9.1 Information on basic physical and chemical properties:

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# **PCP**

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CTION 9: PH	SICAL AND CHEMICAL PROPERTIE	S (continued)
	e information see the product datasheet.	
Appearance Bhysical stat		Liquid
Physical sta		Liquid Not available
Appearance		
Colour:		Not available
Odour:	hald	Not available
Odour thres	noia:	Non-applicable *
Volatility:	at atmospheric processes	117.00
	at atmospheric pressure:	117 °C
	sure at 20 °C:	1157 Pa
	sure at 50 °C:	6492,4 Pa (6,49 kPa)
	rate at 20 °C:	Non-applicable *
Product de		007.2 hz/m2
Density at 2		897,3 kg/m <sup>3</sup>
	isity at 20 °C:	0,897
-	cosity at 20 °C:	2,29 cP
	scosity at 20 °C:	2,56 mm <sup>2</sup> /s
	scosity at 40 °C:	Non-applicable *
Concentratio	on:	Non-applicable *
pH:		Non-applicable *
	sity at 20 °C:	Non-applicable *
	efficient n-octanol/water 20 °C:	Non-applicable *
-	water at 20 °C:	Non-applicable *
Solubility pr		Non-applicable *
	on temperature:	Non-applicable *
	t/freezing point:	11 °C
Flammabil	ity:	
Flash Point:		42 °C
Flammabilit	/ (solid, gas):	Non-applicable *
Autoignition	temperature:	379 °C
	nability limit:	4,2 % Volume
	nability limit:	14,4 % Volume
	aracteristics:	
	valent diameter:	Non-applicable
2 Other info	rmation:	
Informatio	on with regard to physical hazard cla	sses:
Explosive pr	operties:	Non-applicable *
Oxidising pr	operties:	Non-applicable *
Corrosive to	metals:	Non-applicable *
Heat of com		25,19 kJ/g
components		Non-applicable *
	ty characteristics:	Non analisahla *
Surrace tens	sion at 20 °C:	Non-applicable *



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# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

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Refraction index:

Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

# SECTION 10: STABILITY AND REACTIVITY

# 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# 10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

# 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

# 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Not applicable Not applicable Risk of combustion Avoid direct impact Not applicable	Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
	Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

#### 10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

# 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: Mixture based on inorganic substances.

# SECTION 11: TOXICOLOGICAL INFORMATION

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

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Can be fatal if the product is absorbed through the skin. For more information on the secondary effects of skin contact see section 2.

- Contact with the eyes: Produces serious eye damage after contact.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
  - Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  - IARC: Non-applicable

- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- E- Sensitizing effects:

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# SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Respiratory: Prolonged exposure can result in specific respiratory hypersensitivity.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.
- F- Specific target organ toxicity (STOT) single exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- G- Specific target organ toxicity (STOT)-repeated exposure:
  - Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
  - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

#### Other information:

Non-applicable

# Product-specific toxicological information:

	Acute toxicity	Genus
LD50 oral	866 mg/kg	Rat
LD50 dermal	560 mg/kg	Rabbit

# Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Ethylenediamine	LD50 oral	866 mg/kg	Rat
CAS: 107-15-3	LD50 dermal	560 mg/kg	Rabbit
EC: 203-468-6	LC50 inhalation	11 mg/L (ATEi)	

# **11.2** Information on other hazards:

# **Endocrine disrupting properties**

Endocrine-disrupting properties: The product fails to meet the criteria.

# Other information

Non-applicable

# SECTION 12: ECOLOGICAL INFORMATION

# 12.1 Toxicity:

# Product-specific aquatic toxicity:

Acute toxicity		Species	Genus	
LC50	640 mg/L (96 h)	Non-applicable	Fish	
EC50	17 mg/L (48 h)	Non-applicable	Crustacean	
EC50	71 mg/L (72 h)	Non-applicable	Algae	

# Substance-specific aquatic toxicity:

#### Acute toxicity:

Identification	Concentration		Species	Genus
Ethylenediamine	LC50	640 mg/L (96 h)	Poecilia reticulata	Fish
CAS: 107-15-3 EC50 17 mg/L (48 h)		17 mg/L (48 h)	Daphnia magna	Crustacean
EC: 203-468-6	EC50	71 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae

# Chronic toxicity:

	Identification	Concentration		Species	Genus
	Ethylenediamine	NOEC	10 mg/L	Gasterosteus aculeatus	Fish
	CAS: 107-15-3 EC: 203-468-6	NOEC	0,16 mg/L	Daphnia magna	Crustacean
2	Dereistonee and degradability				

# 12.2 Persistence and degradability:



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# SECTION 12: ECOLOGICAL INFORMATION (continued)

# Substance-specific information:

Identification	Degradability		Biodegradab	ility
Ethylenediamine	BOD5	Non-applicable	Concentration	Non-applicable
CAS: 107-15-3	COD	Non-applicable	Period	28 days
EC: 203-468-6	BOD5/COD	Non-applicable	% Biodegradable	95 %

# 12.3 Bioaccumulative potential:

Not available

#### **12.4 Mobility in soil:**

Identification	Absorption/desorption		Volatility	
Ethylenediamine	Кос	Non-applicable	Henry	Non-applicable
CAS: 107-15-3	Conclusion	Non-applicable	Dry soil	Non-applicable
EC: 203-468-6	Surface tension	4,188E-2 N/m (25 °C)	Moist soil	Non-applicable

# **12.5** Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

# 12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product fails to meet the criteria.

# **12.7** Other adverse effects:

Not described

# SECTION 13: DISPOSAL CONSIDERATIONS

# **13.1** Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
16 03 03*	inorganic wastes containing hazardous substances	Dangerous

#### Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP14 Ecotoxic, HP6 Acute Toxicity, HP13 Sensitising, HP8 Corrosive

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

# Transport of dangerous goods by land:

With regard to ADR 2021 and RID 2021:

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific

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SECTION 14: TRANSPORT	INFORMATION (continued)	
14. 14. 14. 14. 14. 14.	<ol> <li>UN number or ID number:</li> <li>UN proper shipping name:</li> <li>Transport hazard class(es): Labels:</li> <li>Packing group:</li> <li>Environmental hazards:</li> <li>Special precautions for user Special regulations:</li> </ol>	UN1604 ETHYLENEDIAMINE 8 8, 3 II No Non-applicable
14.	Tunnel restriction code: Physico-Chemical properties: Limited quantities: 7 Maritime transport in bulk according to IMO instruments:	D/E see section 9 1 L Non-applicable
Transport of dange		
With regard to IMDG		
14.	1 UN number or ID number: 2 UN proper shipping name:	UN1604 ETHYLENEDIAMINE
	3 Transport hazard class(es): Labels:	8 8, 3
14.	4 Packing group: 5 Marine pollutant:	II No
14.	6 Special precautions for user Special regulations: EmS Codes: Physico-Chemical properties: Limited quantities: Segregation group:	Non-applicable F-E, S-C see section 9 1 L SGG18
14.	7 Maritime transport in bulk according to IMO instruments:	Non-applicable
Transport of dange		
With regard to IATA/I	CAO 2023:	
14. 14. 14. 14. 14.	<ol> <li>UN number or ID number:</li> <li>UN proper shipping name:</li> <li>Transport hazard class(es): Labels:</li> <li>Packing group:</li> <li>Environmental hazards:</li> <li>Special precautions for user</li> </ol>	UN1604 ETHYLENEDIAMINE 8 8, 3 II No
14.	<ul> <li>Physico-Chemical properties:</li> <li>Maritime transport in bulk according to IMO instruments:</li> </ul>	see section 9 Non-applicable

# SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Ethylenediamine Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable Article 95, REGULATION (EU) No 528/2012: Non-applicable



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# SECTION 15: REGULATORY INFORMATION (continued)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

#### Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

# Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Shall not be used in:

—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,

-tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### Other legislation:

The product could be affected by sectorial legislation

# 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

# SECTION 16: OTHER INFORMATION

#### Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

# Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Non-applicable

# Texts of the legislative phrases mentioned in section 2:

H226: Flammable liquid and vapour.

H302+H332: Harmful if swallowed or if inhaled.

H311: Toxic in contact with skin.

H412: Harmful to aquatic life with long lasting effects.

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317: May cause an allergic skin reaction.

H314: Causes severe skin burns and eye damage.

# Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

#### CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H311 - Toxic in contact with skin.

Acute Tox. 4: H302+H332 - Harmful if swallowed or if inhaled.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Flam. Liq. 3: H226 - Flammable liquid and vapour.

Resp. Sens. 1B: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1B: H317 - May cause an allergic skin reaction.

# Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

# Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

#### Abbreviations and acronyms:

Safety data sheet

This SDS is an English translation of COMMISSION REGULATION (EU) 2020/878, without any country-specific

legislation



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# SECTION 16: OTHER INFORMATION (continued)

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOgPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.