CECCHI GUSTAVO & C.
Via M. Coppino 253 - 55049 Viareggio (LU) ITALY
tel. +39 0584 383694 fax +39 0584 395182
www.cecchi.it - info@cecchi.it

Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name	**NAUTILUS GELCOAT LIGHT MARK 2 COMP.B**
UFI :	**YA00-C0F3-3009-QT9W**

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

Description/Usage	**COMPONENT B OF PLASTIC COATING LIQUID VITRIFIER BASED ON EPOXY RESINS**

1.3. Details of the supplier of the safety data sheet

Business name:**CECCHI GUSTAVO & C. SRL.**
Address:**Via M. Coppino, 253**
Location and State:**55049 VIAREGGIO (LU) ITALY**

TEL. **+39 0584 383694**
FAX **+39 0584 395182**

e-mail of the competent person responsible for the safety data sheet:**info@cecchi.it**
Responsible for placing on the market: **CECCHI GUSTAVO & C. srl**

1.4. Emergency telephone number

For urgent information, contact: +39 0584/383694 office hours 8.30-12.30, 14.00-18.30 from Monday to Friday

Emergency telephone number

+ 39 0736 3081 (8-17 h)

CAVp “Hosp. Pediatric Bambino Gesù” Rome Piazza Sant'Onofrio, 4 00165 Tel.06-68593726
Hospital Univ. Foggia Foggia V.le Luigi Pinto, 1 71122 Tel.0881-732326 Az. Osp. "A. Cardarelli" Naples Via A. Cardarelli, 9 80131 Tel.081-7472870
CAV Policlinico "Umberto I" Rome Viale del Policlinico, 155 00161 Tel.06-49978000 CAV Policlinico "A. Gemelli" Rome Largo Agostino Gemelli, 8 00168 Tel.06-3054343
Hospital "Careggi" Medical Toxicology Unit Florence Largo Brambilla, 3 50134 Tel.055- 7947819
CAV National Center for Toxicological Information Pavia Via Salvatore Maugeri, 10 27100 Tel.0382-24444
hosp. Niguarda Ca' Granda Milan Piazza Ospedale Maggiore,3 20162 Tel.02-66101029 Papa Giovanni XXII Hospital Bergamo Piazza OMS, 1 24127 Tel.800883300

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SECTION 2. Hazards identification

2.1. Substance or mixture classification

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adjustments). The product therefore requires a safety data sheet that complies with the provisions of Regulation (EU) 2020/878. Any additional information regarding risks to health and/or the environment is given in sections. 11 and 12 of this sheet.

Hazard classification and indications:

Reproductive toxicity, category 2 Acute toxicity, category 4	H361d H302	Suspected of damaging the unborn child. Harmful if swallowed.
Skin corrosion, category 1A Serious eye damage, category 1 Skin sensitization, category 1 Hazardous to the aquatic environment, chronic toxicity, category 3	H314 H318 H317 H412	It causes serious skin burns and serious eye injuries. Causes serious eye damage. May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labeling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments.

Hazard pictograms:

Warnings: Danger

Indications of danger:

H361d Suspected of damaging the unborn child.

SECTION 2. Hazards identification... / >>

H302	Harmful if swallowed.
H314	It causes serious skin burns and serious eye injuries.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P260	Do not breathe dust / fume / gas / mist / vapors / spray.
P305+P351+P338	IN CASE OF CONTACT WITH EYES: Rinse carefully for several minutes. Remove any contact lenses if it is easy to do so. Continue rinsing.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin [or take a shower].
P280	Wear protective gloves/clothing and eye/face protection.
P310	Immediately call a POISON CENTER / doctor. Wash clothing
P264	thoroughly after handling.

Contains: Salicylic Acid 99.5%
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-

aminomethyl-3,5,5-trimethylcyclohexylamine M-
PHENYLENEBIS (METHYLAMINE) Polyoxyalkyleneamine
(polymer) X EPAMINE PC 1836

2.3. Other dangers

Based on available data, the product does not contain PBT or vPvB substances in a percentage ≥ 0.1%.

The product contains substances with endocrine disrupting properties in a concentration ≥ 0.1%: Salicylic acid 99.5%

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SECTION 3. Composition/information on ingredients

3.2. Blends

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836		
INDEX	30 ≤ x < 32.5	**Skin Corr. 1B H314, Eye Dam. 1 H318, Aquatic Chronic 3 H412**
THERE IS *618-561-0*		
CAS *9046-10-0*		
REACH Reg. 01-2119557899-12-xxxx		
4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine		
INDEX	30 ≤ x < 32.5	**Skin Corr. 1A H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412**
THERE IS *500-101-4*		
CAS *38294-64-3*		
REACH Reg. 01-2119965165-33-xxxx		
Salicylic Acid 99.5%		
INDEX	18 ≤ x < 19.5	**Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318**
THERE IS *200-712-3*		**LD50 Oral: 891 mg/kg**
CAS *69-72-7*		
REACH Reg. 01-2119486984-17-XXXX **M-PHENYLENEBIS (METHYLAMINE)**		
INDEX	18 ≤ x < 19.5	**Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 3 H412**
THERE IS *216-032-5*		**ATE Oral: 500 mg/kg, ATE Inhalation vapours: 11 mg/l**
CAS *1477-55-0*		
REACH Reg. 01-2119480150-50-XXXX		

The complete text of the danger indications (H) is given in section 16 of the sheet.

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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids wide. Consult a doctor immediately.
SKIN: Take off all contaminated clothing. Take a shower immediately. Consult a doctor immediately.
INGESTION: Drink as much water as possible. Consult a doctor immediately. Do not induce vomiting unless specifically authorized by your doctor.
INHALATION: Call a doctor immediately. Move the person to fresh air away from the scene of the accident. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

No specific information on symptoms and effects caused by the product is known.

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

Information not available

SECTION 5. Fire fighting measures

5.1. Fire fighting

SUITABLE EXTINGUISHING MEANS
The extinguishing means are the traditional ones: carbon dioxide, foam, powder and nebulized water.
UNSUITABLE EXTINGUISHING MEANS
No one in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Avoid
breathing combustion products.

5.3. Advice for firefighters

GENERAL INFORMATIONS
Cool the containers with jets of water to avoid product decomposition and the development of substances potentially dangerous to health. Always wear full fire protection gear. Collect extinguishing water which must not be discharged into sewers. Dispose of the contaminated water used for extinguishing and the residue of the fire according to the regulations in force. EQUIPMENT

Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant suit (EN469), flame retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop the leak if there is no danger.
Wearing of suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of skin, eyes and personal clothing. These indications are valid both for those involved in the work and for emergency interventions.

6.2. Environmental precautions

Prevent the product from entering sewers, surface waters and groundwater.

6.3. Methods and materials for containment and cleaning up

Suck the spilled product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10.
Absorb the remainder with inert absorbent material.
Provide sufficient ventilation of the place affected by the leak. Disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information regarding individual protection and disposal is given in sections 8 and 13.

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SECTION 7. Handling and storage

7.1. Precautions for Safe Handling

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersion of the product in the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in the original container. Keep containers closed, in a well-ventilated place, away from direct sunlight. Store containers away from any incompatible materials, checking section 10.

7.3. Particular end uses

Information not available

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SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Normative requirements:

TLV-ACGIH ACGIH 2021

Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836

Predicted no-effect concentration for the environment - PNEC

Reference value in fresh water	0.015	mg/l
Reference value in sea water	0.0143	mg/l
Normal value for freshwater sediment Normal value	0.132	mg/kg
for marine water sediment Normal value for water,	0.125	mg/kg
intermittent release Normal value for STP	0.15	mg/l
microorganisms	7.5	mg/l
Reference value for the food chain (secondary poisoning) Reference value	6.93	mg/kg
for the terrestrial compartment	0.0176	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on local consumers				Effects on workers			
Exposure route	Systemic sharp		Locals chronic	Systemic chronic	Locals sharp	Systemic sharp	Locals chronic	Systemic chronic
Oral				0.04 mg/kg bw/d				
Dermal			0.311 mg/cm2	1.25 mg/kg bw/d			0.623 mg/cm2	2.5 mg/kg bw/d

TLV-ACGIH	0.018 (C)	SKIN

M-PHENYLENEBIS (METHYLAMINE)

Threshold limit value

Guy	State	TWA/8h		STEL/15min		Notes / Observations
		mg/m3	ppm	mg/m3	ppm	

SECTION 8. Exposure controls/personal protection... / >>

Salicylic Acid 99.5%

Predicted no-effect concentration for the environment - PNEC

Reference value in fresh water	0.2	mg/l
Reference value in sea water	0.02	mg/l
Normal value for fresh water sediment Normal	1.42	mg/kg
value for marine water sediment Normal value for	0.14	mg/kg
the terrestrial compartment	0.17	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on local				Effects on workers			
Exposure route	consumers sharp	Systemic sharp	Locals chronic	Systemic chronic	Locals sharp	Systemic sharp	Locals chronic	Systemic chronic
Oral		4 mg/kg/d		1 mg/kg/d				
Inhalation				0.004 mg/kg	0.0002 mg/kg		0.001 mg/kg	0.016 mg/kg
Dermal				1 mg/kg/d				2 mg/kg/d

Legend:
(C) = CEILING ; INALAB = Inhalable Fraction; RESPIR = Respirable Fraction; THORAC = Thoracic fraction.
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected; NPI = no hazard identified ; LOW = low danger ; MED = medium danger; HIGH = high danger.

8.2. Exposure controls

Considering that the use of adequate technical measures should always take priority over personal protective equipment, ensure good ventilation in the workplace through effective local aspiration.
When selecting personal protective equipment, seek advice from your chemical suppliers if necessary. Personal protective equipment must bear the CE marking which certifies their compliance with current standards. Provide for an emergency shower with a visor basin.
HAND PROTECTION
Protect your hands with category III work gloves (ref. standard EN 374).
For the final choice of work glove material, the following must be considered: compatibility, degradation, breakthrough time and permeation.
In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it cannot be foreseen. The gloves have a wear time which depends on the duration and method of use.
SKIN PROTECTION
Wear long-sleeved work clothes and category III professional safety footwear (ref. Regulation 2016/425 and standard EN ISO 20344).
Wash with soap and water after removing protective clothing.
EYE PROTECTION
It is advisable to wear a hooded visor or protective visor combined with airtight goggles (ref. standard EN 166).
If there is a risk of being exposed to splashes or splashes in relation to the work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) must be provided in order to avoid accidental absorption.
RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) of the substance or one or more of the substances present in the product is exceeded, it is advisable to wear a mask with type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration for use. (ref. standard EN 14387).
If gases or vapors of a different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, it is necessary to provide combined type filters.
The use of respiratory protection means is necessary if the technical measures adopted are not sufficient to limit the worker's exposure to the threshold values taken into consideration. However, the protection offered by masks is limited.
In the event that the substance in question is odorless or its olfactory threshold is higher than the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed air respirator (ref. standard EN 137) or a plug-in respirator external air (ref. standard EN 138).
For the correct choice of respiratory protection device, refer to the EN 529 standard.
ENVIRONMENTAL EXPOSURE CONTROLS
Emissions from production processes, including those from ventilation equipment, should be controlled for compliance with environmental protection legislation.
Product residues must not be discharged uncontrolled into waste water or watercourses.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Property	Value	Information
Physical state	liquid	
Color	not available	
Odor	characteristic	
Melting or freezing point Initial	not available	
boiling point	not available	
Flammability	not available	

Lower explosive limit Upper	not available
explosive limit Flash point Auto-	not available
ignition temperature	> 60°C
Decomposition temperature pH	not available
	not available
	not available
Kinematic viscosity	not available
Solubility	immiscible with water
Partition coefficient: n-octanol/water Vapor	not available
pressure	not available
Density and/or Relative	1.05
density Relative vapor density	not available
Particle characteristics	Not applicable

9.2. More info

9.2.1. Information relating to classes of physical hazards

Information not available

9.2.2. Other security features

Total Solids (250°C / 482°F)	68.00%		
VOC (Directive 2010/75/EU)	32.00%	- 337.48	g/litre

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular dangers of reaction with other substances under normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, dangerous reactions are not foreseeable.

10.4. Conditions to avoid

None in particular. However, follow the usual precautions for chemical products.

10.5. Incompatible materials

Information not available

10.6. Hazardous decomposition products

Information not available

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SECTION 11. Toxicological information

In the absence of experimental toxicological data on the product itself, the possible dangers of the product for health have been evaluated on the basis of the properties of the substances contained, according to the criteria established by the reference legislation for classification.
Therefore, consider the concentration of the individual dangerous substances possibly mentioned in sec. 3, to evaluate the toxicological effects deriving from exposure to the product.

11.1. Information on the hazard classes defined in Regulation (EC) no. 1272/2008

Metabolism, kinetics, mechanism of action and other information the

Information not available

Information on likely routes of exposure

Information not available

Immediate, delayed and chronic effects resulting from short and long term exposure

Information not available

Interactive Effects the

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	1642.43 mg/kg
ATE (Dermal) of the mixture:	Not classified (no relevant component)

Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836

LD50 (Dermal):	2980 mg/kg RABBIT
LD50 (Oral):	2885 mg/kg RAT
LC50 (Inhalation of vapours):	> 0.74 mg/l/4h RAT

M-PHENYLENEBIS (METHYLAMINE)

LD50 (Dermal):	3100 mg/kg Rat
LD50 (Oral):	> 200 mg/kg Rat - Sprague-Dawley
STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture) 1,34
LC50 (Inhalation of vapours):	mg/l Rat - Wistar
ATE (Inhalation of vapours):	11 mg/l estimate from table 3.1.2 of Annex I of CLP (data used for the calculation of the estimate of the acute toxicity of the mixture)

Salicylic Acid 99.5%

LD50 (Dermal):	> 2000 mg/kg RAT
LD50 (Oral):	891 mg/kg RAT
LC50 (Inhalation of mists/dust):	> 0.9 mg/l/1h RAT

SKIN CORROSION / SKIN IRRITATION

Corrosive to the skin

SERIOUS EYE DAMAGE / EYE IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITIZATION

Skin sensitizer

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Suspected of damaging the unborn child

SPECIFIC TARGET ORGAN TOXICITY (STOT) - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

SPECIFIC TARGET ORGAN TOXICITY (STOT) - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

DANGER IN CASE OF ASPIRATION

Does not meet the classification criteria for this hazard class

11.2. Information about other hazards

Based on available data, the product contains the following endocrine disruptors at a concentration of 0.1% by weight or greater which may have endocrine disrupting effects in humans and cause adverse effects in the exposed individual or his offspring:
Salicylic Acid 99.5%

SECTION 12. Ecological information

The product is to be considered as dangerous for the environment and is harmful to aquatic organisms with long-term negative effects for the aquatic environment.

12.1. Toxicity

M-PHENYLENEBIS (METHYLAMINE)	
LC50 - Fish	87,6 mg/l/96h Oryzias latipes
EC50 - Crustaceans	15.2 mg/l/48h Daphnia magna
EC50 - Algae / Aquatic Plants	20.3 mg/l/72h Pseudokirchnerella subcapitata
Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836	
LC50 - Fish	> 15mg/l/96h
EC50 - Crustaceans	80mg/l/48h
EC50 - Algae / Aquatic Plants Chronic	15mg/l/72h
NOEC Algae / Aquatic Plants	0.32 mg/l
Salicylic Acid 99.5%	
LC50 - Fish	1380mg/l/96h
EC50 - Crustaceans	870mg/l/48h
EC50 - Algae / Aquatic Plants	> 100mg/l/72h
Chronic NOEC Crustaceans	10 mg/l 21 days

12.2. Persistence and degradability

M-PHENYLENEBIS (METHYLAMINE)	
Solubility in water	1000 - 10000 mg/l
Quickly degradable	
Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836	
Solubility in water	100000 mg/l
NOT rapidly degradable	
Salicylic Acid 99.5%	
Quickly degradable	

12.3. Bioaccumulative potential

M-PHENYLENEBIS (METHYLAMINE) Partition coefficient: n-octanol/water	0.18

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

Based on available data, the product does not contain PBT or vPvB substances in a percentage ≥ 0.1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment being evaluated.

12.7. Other adverse effects

Information not available

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SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste which partially contains this product must be evaluated on the basis of the legislative provisions in force.
Disposal must be entrusted to an authorized waste management company, in compliance with national and possibly local legislation.
Transportation of waste may be subject to ADR.
CONTAMINATED PACKAGING
Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transportation Information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 2735

14.2. UN proper shipping name

ADR / RID: CORROSIVE LIQUID AMINES, NOS or CORROSIVE LIQUID POLYAMINE, NOS AMINES,
IMDG: LIQUID, CORROSIVE, NOS or POLYAMINES, LIQUID, CORROSIVE, NOS AMINES, LIQUID,
IATA: CORROSIVE, NOS or POLYAMINES, LIQUID, CORROSIVE, NOS

14.3. Transport hazard classes

ADR / RID:	Class: 8	Tag: 8
IMDG:	Class: 8	Tag: 8
IATA:	Class: 8	Tag: 8

14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Dangers to the environment

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special Provision: 274 EMS: FA, SB	Limited Quantities: 1 L	Tunnel restriction code: (E)
IMDG:		Limited quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packing Instructions: 855
	Pass.:	Maximum quantity: 1 L	Packing Instructions: 851
	Special Arrangement:	A3, A803	

14.7. Shipping in bulk in accordance with IMO acts

Irrelevant information

SECTION 15. Regulatory Information

15.1. Safety, health and environmental laws and regulations specific to the substance or mixture

Seveso category - Directive 2012/18/EU:	None

Restrictions relating to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006

Product

Point 3

Regulation (EU) 2019/1148 - concerning the placing on the market and use of explosives precursors i not applicable

Substances in Candidate List (Art. 59 REACH)

Based on the data available, the product does not contain SVHC substances in a percentage ≥ 0.1%.

Substances subject to authorization (Annex XIV REACH)

None

Substances subject to export notification obligation Regulation (EU) 649/2012: None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Sanitary checks

the workers exposed to this chemical agent dangerous to health must be subjected to health surveillance carried out according to the provisions of art. 41 of Legislative Decree 81 of 9 April 2008 unless the risk to the worker's health and safety has been assessed as irrelevant, in accordance with the provisions of art. 224 paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following contained substances: 4,4'-isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5 -trimethylcyclohexylamine
Polyoxyalkyleneamine (polymer) X EPAMINE PC 1836
This safety data sheet contains one or more Exposure Scenarios in an integrated form. The content has been included in sections 1.2, 8, 9, 12, 15 and 16 of the same safety data sheet.

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SECTION 16. Other information

Text of the danger indications (H) mentioned in sections 2-3 of the sheet:

Repr. 2	Reproductive toxicity, category 2 Acute
Acute Tox. 4	toxicity, category 4
Skin Corr. 1A	Skin corrosion, category 1A Skin
Skin Corr. 1B	corrosion, category 1B Serious eye
Eye Dam. 1	damage, category 1 Skin sensitization,
Skin Sens. 1	category 1 Skin sensitization, category
Skin Sens. 1B	1B
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	It causes serious skin burns and serious eye injuries.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:
- ADR: European agreement for the carriage of dangerous goods by road
- CAS: Chemical Abstract Service Number
- CE: Identification number in ESIS (European Archive of Existing Substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EC50: Concentration that affects 50% of the population tested
- EmS: Emergency Schedule
- GHS: Globally Harmonized System for the classification and labeling of chemicals
- IATA DGR: Regulations for the transport of dangerous goods of the International Air Transport Association
- IC50: Concentration of immobilisation of 50% of the test population
- IMDG: International Maritime Code for the transport of dangerous goods
- IMO: International Maritime Organization

- INDEX: Identification number in Annex VI of the CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Level of occupational exposure
- PBT: Persistent, bioaccumulating and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- STA: Acute Toxicity Estimate
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which must not be exceeded during any moment of occupational exposure.
- TWA: Weighted Average Exposure Limit
- TWA STEL: Short Term Exposure Limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulating according to REACH
- WGK: Aquatic hazard class (Germany).

GENERAL BIBLIOGRAPHY:

1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EU) 2020/878 (Annex II REACH Regulation)
4. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. Regulation (EU) 2016/918 of the European Parliament (VIII Atp. CLP)
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (EU) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (EU) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (EU) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (EU) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (EU) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (EU) 2022/692 (XVIII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- NI Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA Agency website
- Database of SDS models of chemical substances - Ministry of Health and Istituto Superiore di Sanità

Note for the user:
The information contained in this sheet is based on the knowledge available to us on the date of the last version. The user must ensure the suitability and completeness of the information in relation to the specific use of the product.
This document should not be interpreted as a guarantee of any specific property of the product.
Since the use of the product does not fall under our direct control, it is the user's obligation to observe the laws and regulations in force regarding hygiene and safety under his own responsibility. No responsibility is assumed for improper use.
Provide adequate training to personnel involved in the use of chemical products.

CLASSIFICATION CALCULATION METHODS
Physical and chemical hazards: The classification of the product has been derived from the criteria established by the CLP Regulation Annex I Part 2. The methods of evaluation of the physical and chemical properties are reported in section 9.
Health hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 3, unless otherwise indicated in section 11.
Environmental hazards: The classification of the product is based on the calculation methods in Annex I of CLP Part 4, unless it is otherwise indicated in section 12.

Changes from the previous revision
Changes have been made to the following sections: 01