Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code: **265EDMXB - 265EDMXB001 - 265EDMXB002**
Product name **MASILEX GP2 (Comp B)**
UFI : **MPT0-90HU-A003-FVJY**

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

Intended use **Hardener for epoxy adhesive**

Identified Uses	Industrial	Professional	Consumer
Hardener for epoxy adhesive	-	ERC: 8c, 8f. PROC: 19. AC: 0. PC: 1. LCS: PW.	-

1.3. Details of the supplier of the safety data sheet

Name **BELLINZONI S.R.L.**
Full address **Via Mezzano 64**
District and Country **28069 Trecate (NO)**
Italia

Tel. +39 0321 770558

e-mail address of the competent person

responsible for the Safety Data Sheet **laboratorio@bellinzoni.com**
Supplier: **BELLINZONI S.r.l.**

1.4. Emergency telephone number

For urgent inquiries refer to

- **CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA – Roma - Piazza Sant`Onofrio, 4 CAP: 00165 – Telefono: 06 68593726 – Responsabile: Marco Marano**
- **Az. Osp. Univ. Foggia – Foggia - V.le Luigi Pinto, 1 – CAP: 71122 – Telefono: 800183459 – Responsabile: Anna Lepore**
- **Az. Osp. "A. Cardarelli" – Napoli - Via A. Cardarelli, 9 – CAP: 80131081- Telefono: 5453333 – Responsabile: Romolo Villani**
- **CAV Policlinico "Umberto I" - Roma - V.le del Policlinico, 155 – CAP: 161 – Telefono: 06-49978000 – Responsabile: M. Caterina Grassi**
- **CAV Policlinico "A. Gemelli" - Roma - Largo Agostino Gemelli, 8 – CAP: 168 – Telefono: 06-3054343 – Responsabile: Alessandro Barelli**
- **Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze - Largo Brambilla, 3 – CAP: 50134 – Telefono: 055-7947819 – Responsabile: Francesco Gambassi**
- **CAV Centro Nazionale di Informazione Tossicologica - Pavia – Via Salvatore Maugeri, 10 – CAP: 27100 - Telefono: 0382-24444 – Responsabile: Carlo Locatelli**
- **Osp. Niguarda Ca' Granda – Milano - Piazza Ospedale Maggiore,3 – CAP: 20162 – Telefono: 02-66101029 – Responsabile: Franca Davanzo**
- **Azienda Ospedaliera Papa Giovanni XXII – Bergamo - Piazza OMS, 1 – CAP: 24127 – Telefono: 800883300 – Responsabile: Bacis Giuseppe**
- **Azienda Ospedaliera Integrata Verona – Verona - Piazzale Aristide Stefani, 1 – CAP: 37126 – Telefono 800011858**

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin corrosion, category 1B	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin sensitization, category 1A	H317	May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:

Signal words: Danger

Hazard statements:

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing / eye protection / face 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.
P310	Immediately call a POISON CENTER / doctor
P362+P364	Take off contaminated clothing and wash it before reuse.

Contains: 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE
N',N'-DIMETHYLPROPANE-1,3-DIAMINE

PHENOL, STYRENATED

M-PHENYLENEBIS (METHYLAMINE)

FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS, 4,4'-ISOPROPYLIDENEDIPHENOL-1-CHLORO-2,3-EPOXYPROPANE CO-OLIGOMER AND TRIETHYLENETETRAMINE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product contains substances with endocrine disrupting properties in concentration ≥ 0,1%:

SALICYLIC ACID

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
FATTY ACIDS, C18-UNSATD., DIMERS, OLIGOMERIC REACTION PRODUCTS WITH TALL-OIL FATTY ACIDS, 4,4'-ISOPROPYLIDENEDIPHENOL-1-CHLORO-2,3-EPOXYPROPANE CO-OLIGOMER AND TRIETHYLENETETRAMINE		
INDEX -	22 ≤ x < 25	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1B H317
EC 956-758-6		
CAS 160901-21-3		
BENZYL ALCOHOL		
INDEX 603-057-00-5	9 ≤ x < 10	Acute Tox. 4 H302, Acute Tox. 4 H332, Eye Irrit. 2 H319
EC 202-859-9		LD50 Oral: 1620 mg/kg, STA Inhalation vapours: 11 mg/l
CAS 100-51-6		
REACH Reg. 01-2119492630-38		
PHENOL, STYRENATED		
INDEX -	4 ≤ x < 5	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 2 H411
EC 262-975-0		
CAS 61788-44-1		
REACH Reg. 01-2119980970-27		
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE		
INDEX 612-067-00-9	2 ≤ x < 3	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1A H317
EC 220-666-8		Skin Sens. 1A H317: ≥ 0,001%
CAS 2855-13-2		LD50 Oral: 1030 mg/kg
REACH Reg. 01-2119514687-32		
M-PHENYLENEBIS (METHYLAMINE)		
INDEX -	2 ≤ x < 3	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1B H317, Aquatic Chronic 3 H412, EUH071
EC 216-032-5		LD50 Oral: 930 mg/kg, STA Inhalation vapours: 11 mg/l
CAS 1477-55-0		
REACH Reg. 01-2119480150-50		

N',N'-DIMETHYLPROPANE-1,3-DIAMINE		
INDEX 612-061-00-6	1 ≤ x < 2	Flam. Liq. 3 H226, Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317
EC 203-680-9		Skin Sens. 1 H317: ≥ 0,1%
CAS 109-55-7		STA Oral: 500 mg/kg
REACH Reg. 01-2119486842-27		
SALICYLIC ACID		
INDEX 607-732-00-5	0,55 ≤ x < 0,7	Repr. 2 H361d, Acute Tox. 4 H302, Eye Dam. 1 H318
EC 200-712-3		LD50 Oral: 891 mg/kg
CAS 69-72-7		
REACH Reg. 01-2119486984-17		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.
INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.
INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.
Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

AUS	Österreich	Gesamte Rechtsvorschrift für Grenzwerteverordnung 2021 , Fassung vom 17.06.2021
BEL	Belgique	Liste de valeurs limites d'exposition aux agents chimiques, livre VI du code du bien-être au travail
BGR	България	НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)
CHE	Suisse / Schweiz	Valeurs limites d`exposition aux postes de travail: VME/VLE (SUVA). Grenzwerte am Arbeitsplatz: MAK (SUVA)
CZE	Česká Republika	Nařízení vlády č. 41/2020 Sb. Nařízení vlády, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů
DEU	Deutschland	Technischen Regeln für Gefahrstoffe (TRGS 900) - Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte. MAK- und BAT-Werte-Liste 2020, Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe, Mitteilung 56
DNK	Danmark	Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS
FIN	Suomi	HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÅRDSMINISTERIETS PUBLIKATIONER 2020:25
LTU	Lietuva	Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo
LVA	Latvija	Grozījumi Ministru kabineta 2007. gada 15. maija noteikumos Nr. 325 "Darba aizsardzības prasības saskarē ar ķīmiskajām vielām darba vietās" (prot. Nr. 32 18. §; prot. Nr. 1 22. §)
NOR	Norge	Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255
POL	Polska	Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
SVN	Slovenija	Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu (Uradni list RS, št. 100/01, 39/05, 53/07, 102/10, 43/11 – ZVZD-1, 38/15, 78/18 in 78/19)
	TLV-ACGIH	ACGIH 2022

BENZYL ALCOHOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	5					
MAK	CHE	22	5			SKIN	
VME/VLE	CHE	22	5			SKIN	
TLV	CZE	40	9,04	80	18,08		
AGW	DEU	22	5	44	10	SKIN	11
HTP	FIN	45	10				
RD	LTU	5				SKIN	
RV	LVA	5					
NDS/NDSCh	POL	240					
MV	SVN	22	5	44	10	SKIN	

Predicted no-effect concentration - PNEC		
Normal value in fresh water	1	mg/l
Normal value in marine water	1	mg/l
Normal value for fresh water sediment	527	mg/kg

Normal value for marine water sediment	527	mg/kg
Normal value for water, intermittent release	23	mg/l
Normal value of STP microorganisms	39	mg/l
Normal value for the terrestrial compartment	45	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		20 mg/kg bw/d		4 mg/kg bw/d				
Inhalation		27 mg/m3		5,4 mg/m3		110 mg/m3		22 mg/m3
Skin		20 mg/kg bw/d		4 mg/kg bw/d		40 mg/kg bw/d		8 mg/kg bw/d

PHENOL, STYRENATED

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,004	mg/l
Normal value in marine water	0,0004	mg/l
Normal value for fresh water sediment	0,248	mg/kg/d
Normal value for marine water sediment	24,8	mg/kg/d
Normal value for water, intermittent release	46	mg/l
Normal value of STP microorganisms	36,2	mg/l
Normal value for the terrestrial compartment	0,0472	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				7,5 mg/kg bw/d				
Inhalation				13,1 mg/m3				74,3 mg/m3
Skin				7,5 mg/kg bw/d				21 mg/kg bw/d

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,06	mg/l
Normal value in marine water	0,006	mg/l
Normal value for fresh water sediment	5,784	mg/kg
Normal value for marine water sediment	0,578	mg/kg
Normal value for water, intermittent release	0,23	mg/l
Normal value of STP microorganisms	3,18	mg/l
Normal value for the terrestrial compartment	1,121	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral								0,526 mg/kg bw/d
Inhalation	0,073		0,073		0,073 mg/m3		0,073 mg/m3	

M-PHENYLENEBIS (METHYLAMINE)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
MAK	AUS	0,1		0,1 (C)		
VLEP	BEL			0,1 (C)		
MAK	CHE	0,1				SKIN
VME/VLE	CHE	0,1				SKIN
TLV	DNK			0,1 (C)	0,02 (C)	SKIN
VLEP	FRA			0,1		
TLV	NOR	0,1				
MV	SVN	0,1				
TLV-ACGIH				0,018 (C)		SKIN

SALICYLIC ACID

Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,2	mg/l
Normal value in marine water	0,02	mg/l
Normal value for fresh water sediment	1,42	mg/kg
Normal value for marine water sediment	0,142	mg/kg
Normal value for water, intermittent release	1	mg/l
Normal value of STP microorganisms	162	mg/l
Normal value for the terrestrial compartment	0,166	mg/kg

Health - Derived no-effect level - DNEL / DMEL

	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		4 mg/kg bw/d		1 mg/kg bw/d				
Inhalation		1	0,2 mg/m3	4 mg/m3				16 mg/m3
Skin				1 mg/kg bw/d				2 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.
When choosing personal protective equipment, ask your chemical substance supplier for advice.
Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION
Protect your hands with category III nitrile work gloves (ref. standard EN 374), having a thickness of 0.4 mm and permeability time > 480' (e.g. 730 Camatril). 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. Gloves have a wear time that depends on the duration and method of use.

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	paste	
Colour	white	
Odour	amino	
Melting point / freezing point	not available	Reason for missing data:product not subject to melting by heating.
Initial boiling point	> 100 °C	
Flammability	not flammable	
Lower explosive limit	not available	Reason for missing data:it does not contain substances classified as explosive
Upper explosive limit	not available	Reason for missing data:it does not contain substances classified as explosive
Flash point	> 60 °C	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	10,5	Concentration: 10 % Temperature: 20 °C
Kinematic viscosity	not available	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	not available	Reason for missing data:The product is a blend
Vapour pressure	not available	

Density and/or relative density	1,54 - 1.58 g/cm3	Temperature: 20 °C
Relative vapour density	not available	
Particle characteristics	not applicable	

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)	9,18 % - 144,12 g/litre	
VOC (volatile carbon)	7,14 % - 112,03 g/litre	
Explosive properties	not explosive	Remark:it does not contain substances classified as explosive
Oxidising properties	not oxidizing	Remark:it does not contain substances classified as oxidizing

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

BENZYL ALCOHOL

Decomposes at temperatures above 870°C/1598°F.Possibility of explosion.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

BENZYL ALCOHOL

May react dangerously with: hydrobromic acid, iron, oxidizing agents, sulfuric acid. Risk of explosion on contact with: phosphorus trichloride.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Can react dangerously with: strong oxidizing agents, concentrated inorganic acids

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

BENZYL ALCOHOL

Avoid exposure to: air, sources of heat, naked flames.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Avoid contact with: strong acids, strong oxidants

10.5. Incompatible materials

Acids, acrylates, oxidizing agents, alcohols, aldehydes, halogenated hydrocarbons, ketones, epoxides, nitrites.

BENZYL ALCOHOL

Incompatible with: sulfuric acid, oxidizing substances, aluminium

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

SECTION 11. Toxicological information

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	>2000 mg/kg
ATE (Dermal) of the mixture:	Not classified (no significant component)

BENZYL ALCOHOL

LD50 (Dermal):	2000 mg/kg coniglio
LD50 (Oral):	1620 mg/kg ratto (maschio)
LC50 (Inhalation vapours):	> 4178 mg/l/4h ratto (OCSE 403)
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

PHENOL, STYRENATED

LD50 (Dermal):	> 5010 mg/kg Rabbit, m/f
LD50 (Oral):	3700 mg/kg Rat, m/f
LC50 (Inhalation vapours):	> 4,9 mg/l Rat

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LD50 (Oral):	1030 mg/kg

M-PHENYLENEBIS (METHYLAMINE)

LD50 (Dermal):	3100 mg/kg Rat
LD50 (Oral):	930 mg/kg Rat
LC50 (Inhalation vapours):	1,34 mg/l/4h Rat
STA (Inhalation vapours):	11 mg/l estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

N',N'-DIMETHYLPROPANE-1,3-DIAMINE

STA (Oral):	500 mg/kg estimate from table 3.1.2 of Annex I of the CLP (figure used for calculation of the acute toxicity estimate of the mixture)

SALICYLIC ACID

LD50 (Dermal):	> 2000 mg/kg Rat, m/f
LD50 (Oral):	891 mg/kg rat
LC50 (Inhalation vapours):	0,9 mg/l/4h rat

SKIN CORROSION / IRRITATION

Corrosive for the skin

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

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

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

11.2. Information on other hazards

Based on the available data, the product contains the following endocrine disruptors in concentrations of 0.1% or greater by weight that may have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:

SALICYLIC ACID

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

BENZYL ALCOHOL	
LC50 - for Fish	460 mg/l/96h Pimephales promelas
EC50 - for Crustacea	230 mg/l/48h Daphnia magna (OCSE 202)
EC50 - for Algae / Aquatic Plants	770 mg/l/72h Pseudokirchneriella subcapitata (OCSE 201)
Chronic NOEC for Crustacea	51 mg/l 21d Daphnia magna (OCSE 211)
M-PHENYLENEBIS (METHYLAMINE)	
LC50 - for Fish	87,6 mg/l/96h Oryzias latipes
EC50 - for Crustacea	15,2 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	20,3 mg/l/72h Pseudokirchnerella subcapitata
Chronic NOEC for Crustacea	4,7 mg/l/21d Daphnia magna
Chronic NOEC for Algae / Aquatic Plants	10,5 mg/l/72h Selenastrum capricornutum
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE	
LC50 - for Fish	110 mg/l/96h
EC50 - for Crustacea	23 mg/l/48h
EC50 - for Algae / Aquatic Plants	50 mg/l/72h
Chronic NOEC for Algae / Aquatic Plants	3 mg/l
SALICYLIC ACID	
LC50 - for Fish	1370 mg/l/96h
EC50 - for Crustacea	870 mg/l/48h

EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h
Chronic NOEC for Crustacea	10 mg/l

12.2. Persistence and degradability

BENZYL ALCOHOL

Rapidly degradable

N',N'-DIMETHYLPROPANE-1,3-DIAMINE

Solubility in water	1000 g/l 20°C

Rapidly degradable

M-PHENYLENEBIS (METHYLAMINE)

Solubility in water	1000 - 10000 mg/l

Rapidly degradable

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Solubility in water	1000 - 10000 mg/l

NOT rapidly degradable

PHENOL, STYRENATED

Solubility in water	1,95 mg/l 22 °C - pH=6,5

NOT rapidly degradable

SALICYLIC ACID

Solubility in water	2,55 g/l 25°C

Rapidly degradable

12.3. Bioaccumulative potential

BENZYL ALCOHOL

Partition coefficient: n-octanol/water	1,05

N',N'-DIMETHYLPROPANE-1,3-DIAMINE

Partition coefficient: n-octanol/water	-0,352 Log Kow 25°C
BCF	2,4 L/kg ww

M-PHENYLENEBIS (METHYLAMINE)

Partition coefficient: n-octanol/water	0,18

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

Partition coefficient: n-octanol/water	0,99

PHENOL, STYRENATED

Partition coefficient: n-octanol/water	> 4 Log Kow
BCF	14,43

SALICYLIC ACID
Partition coefficient: n-octanol/water 2,25

12.4. Mobility in soil

N',N'-DIMETHYLPROPANE-1,3-DIAMINE
Partition coefficient: soil/water 1,92 25°C

PHENOL, STYRENATED
Partition coefficient: soil/water 3145 25°C

SALICYLIC ACID
Partition coefficient: soil/water 1,544 20°C

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 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 environmental effects under evaluation.

12.7. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: 2735

14.2. UN proper shipping name

ADR / RID:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE)); N',N'-DIMETHYLPROPANE-1,3-DIAMINE
IMDG:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE)); N',N'-DIMETHYLPROPANE-1,3-DIAMINE
IATA:	AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (M-PHENYLENEBIS (METHYLAMINE)); N',N'-DIMETHYLPROPANE-1,3-DIAMINE

14.3. Transport hazard class(es)

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

14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	NO
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80	Limited Quantities: 5 L	Tunnel restriction code: (E)
	Special provision: 274		
IMDG:	EMS: F-A, S-B	Limited Quantities: 5 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 856
	Passengers:	Maximum quantity: 5 L	Packaging instructions: 852
	Special provision:	A3, A803	

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product
Point 3 - 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Flam. Liq. 3	Flammable liquid, category 3
Repr. 2	Reproductive toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Eye Dam. 1	Serious eye damage, category 1

Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Use descriptor system:

AC	**0**	Other
ERC	**8c**	Widespread use leading to inclusion into/onto article (indoor)
ERC	**8f**	Widespread use leading to inclusion into/onto article (outdoor)
LCS	**PW**	Widespread use by professional workers
PC	**1**	Adhesives, sealants
PROC	**19**	Manual activities involving hand contact

LEGEND:
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
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17. Regulation (EU) 2019/1148
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20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
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- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
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Note for users:
The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.
This document must not be regarded as a guarantee on any specific product property.
The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.
Provide appointed staff with adequate training on how to use chemical products.
CALCULATION METHODS FOR CLASSIFICATION
Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.
Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.
Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.