Safety Data Sheet

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

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

1.1. Product identifier

Code:	**0470294P**
Product name	**SYNTECH CRACK EP COMP.B**
UFI :	**3111-Q0Y6-M00S-D7FX**

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

Intended use	**Two-component epoxy resin for repairing floors**

1.3. Details of the supplier of the safety data sheet

Name	**AZICHEM SRL**
Full address	**Via G. Gentile 16/A**
District and Country	**46044 Goito (Mantova)** **Italia** **Tel. 0376604185**
e-mail address of the competent person responsible for the Safety Data Sheet	**laboratorio@azichem.com**

1.4. Emergency telephone number

For urgent inquiries refer to

Osp. Pediatrico Bambino Gesù ROMA: 06 68593726
Az. Osp. Univ. Foggia FOGGIA: 800183459
Az. Osp. "A. Cardarelli" NAPOLI: 081-5453333
Policlinico "Umberto I" ROMA: 06-49978000
Policlinico "A. Gemelli" ROMA: 06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica FIRENZE: 055-7947819
Centro Nazionale di Informazione Tossicologica PAVIA: 0382-24444
Osp. Niguarda Ca' Granda MILANO: 02-66101029
Azienda Ospedaliera Papa Giovanni XXII BERGAMO: 800883300
Azienda Ospedaliera Integrata VERONA: 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:

Acute toxicity, category 4	H302	Harmful if swallowed.
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 1	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:

SECTION 2. Hazards identification ... / >>

Signal words: Danger

Hazard statements:

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

Precautionary statements:

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

Contains: 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
M-PHENYLENEBIS (METHYLAMINE)
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE
AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
BENZYL ALCOHOL

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

3.2. Mixtures

Contains:

Identification		x = Conc. %	Classification (EC) 1272/2008 (CLP)
BENZYL ALCOHOL			
INDEX	*603-057-00-5*	35 ≤ x < 37,5	**Acute Tox. 4 H302, Acute Tox. 4 H332**
EC	*202-859-9*		**LD50 Oral: 1230 mg/kg, ATE Inhalation vapours: 11 mg/l**
CAS	*100-51-6*		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine			
INDEX		27 ≤ x < 28,5	**Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412**
EC	*500-101-4*		
CAS	*38294-64-3*		
REACH Reg.	*01-2119965165-33*		
AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION			
INDEX		16,5 ≤ x < 18	**Acute Tox. 4 H302, Acute Tox. 4 H312, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Chronic 3 H412, EUH071**
EC	*292-588-2*		**LD50 Oral: 1716,2 mg/kg, LD50 Dermal: 1465,4 mg/kg**
CAS	*90640-67-8*		
REACH Reg.	*01-2119487919-13-XXXX*		
M-PHENYLENEBIS (METHYLAMINE)			
INDEX		8 ≤ x < 9	**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*		**ATE Oral: 500 mg/kg, ATE Inhalation mists/powders: 1,5 mg/l**
CAS	*1477-55-0*		
REACH Reg.	*01-2119480150-50-XXXX*		

SECTION 3. Composition/information on ingredients ... / >>

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

INDEX	*612-067-00-9*	8 ≤ x < 9	**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**

SALICYLIC ACID

INDEX	*607-732-00-5*	2 ≤ x < 2,5	**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-XXXX*		

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.
In case of more severe symptoms, ask for immediate medical aid.
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.
SKIN: Take off immediately all contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice/attention. Avoid further contact with contaminated clothing.
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Rinse your mouth with running water. Do not give anything by mouth to an unconscious person. Get medical advice/attention.
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER / doctor / . . .

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

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

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. 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:

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.28 от 2 Април 2024г.)
DEU	Deutschland	WirkungDosisNOAELMAK-und BAT-Werte-Liste 2024 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021
POL	Polska	ROZPORZĄDZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 24 czerwca 2024 r. zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy
	ACGIH	ACGIH 2025

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

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0111	mg/l
Normal value in marine water	0,00111	mg/l
Normal value for fresh water sediment	4320	mg/kg
Normal value for marine water sediment	432	mg/kg
Normal value for marine water, intermittent release	0,111	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the food chain (secondary poisoning)	1	mg/kg
Normal value for the terrestrial compartment	864	mg/kg
Normal value for the atmosphere	NPI	

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		NPI		0,05 mg/kg bw/d				
Inhalation	HIGH	NPI	HIGH	0,074 mg/m3	HIGH	NPI	HIGH	0,493 mg/m3
Skin	HIGH	NPI	HIGH	0,05 mg/kg bw/d	HIGH	NPI	HIGH	0,14 mg/kg bw/d

BENZYL ALCOHOL

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV	BGR	5					
AGW	DEU	22	5	44	10	SKIN	11
MAK	DEU	22	5	44	10	SKIN	
NDS/NDSCh	POL	240					

M-PHENYLENEBIS (METHYLAMINE)

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
VLEP	FRA			0,1		
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/d
Normal value for marine water sediment	0,142	mg/kg/d
Normal value for marine water, intermittent release	1	mg/l
Normal value of STP microorganisms	162	mg/l
Normal value for the terrestrial compartment	0,166	mg/kg/d

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				4 mg/m3			5 mg/m3	5 mg/m3
Skin				1 mg/kg bw/d				2,3 mg/kg bw/d

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

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION		
Predicted no-effect concentration - PNEC		
Normal value in fresh water	0,027	mg/l
Normal value in marine water	0,003	mg/l
Normal value for fresh water sediment	8,572	mg/kg/d
Normal value for marine water sediment	0,857	mg/kg/d
Normal value for marine water, intermittent release	0,2	mg/l
Normal value for fresh water, intermittent release	0,02	mg/l
Normal value of STP microorganisms	0,13	mg/l
Normal value for the terrestrial compartment	1,25	mg/kg/d

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		LOW		0,14 mg/kg bw/d				
Inhalation	HIGH		HIGH	0,096 mg/m3	HIGH		HIGH	0,54 mg/m3
Skin	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH	HIGH

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 hands with category III work gloves.
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.
The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type 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 ISO 16321).
In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.
RESPIRATORY PROTECTION
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. 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).
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		liquid		
Colour		orange		
Odour		characteristic		
Melting point / freezing point		not available		
Initial boiling point	>	200	°C	
Flammability				

SECTION 9. Physical and chemical properties ... / >>

	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	93	°C
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,04	g/cm3
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)	37,00 %	-	384,80	g/litre
VOC (volatile carbon)	28,74 %	-	298,90	g/litre

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

No hazardous reactions are foreseeable in normal conditions of use and storage.

BENZYL ALCOHOL
May react dangerously with: hydrobromic acid,iron,oxidising agents,sulphuric acid.Risk of explosion on contact with: phosphorus trichloride.
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE
May react dangerously with: strong oxidising agents,concentrated inorganic acids.

10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

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

BENZYL ALCOHOL
Incompatible with: sulphuric acid,oxidising substances,aluminium.

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Acids, Chlorinated hydrocarbons, Cobalt, Copper, Copper alloys, Nickel, Oxidizing agents

10.6. Hazardous decomposition products

SECTION 10. Stability and reactivity ... / >>

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Anhydrous ammonia, aldehydes, nitrous oxide, carbon monoxide, carbon dioxide, ketones

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

SALICYLIC ACID
Following oral administration it is rapidly absorbed (Rainsford et al., 1980).
It is distributed in all tissues. The highest concentrations occur in the liver and urine and 50-80% in plasma bound to albumin and other proteins. It is found in the placenta and passes rapidly to the fetus (SCCNFP, 2001).
The main metabolites are salicyluric acid (75%) and salicyl-glucuronic acid (5%) and hydroxylated metabolites (< 1%) (SCCNFP, 2001).
These metabolites and unchanged salicylic acid (10%) are eliminated almost exclusively in the urine. Less than 1% is found in bile, feces and exhaled (SCCNFP, 2001).
The substance is rapidly absorbed by the skin. Absorption is strictly dependent on the composition, pH and application conditions (single, repeated dose, occlusion) (SCCNFP, 2001).
In infants and children, it is rapidly absorbed through the skin with a greater risk of toxic effects.

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 - mists / powders) of the mixture:	> 5 mg/l
ATE (Inhalation - vapours) of the mixture:	> 20 mg/l
ATE (Oral) of the mixture:	1418,04 mg/kg
ATE (Dermal) of the mixture:	>2000 mg/kg

Corrosive to the respiratory tract.

BENZYL ALCOHOL

LD50 (Dermal):	2000 mg/kg Rabbit
LD50 (Oral):	1230 mg/kg Rat
LC50 (Inhalation vapours):	> 4,1 mg/l/4h Rat
ATE (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)

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION

LD50 (Dermal):	1465,4 mg/kg Rabbit (OECD 402)
LD50 (Oral):	1716,2 mg/kg Rat (equivalente o similare OECD 401)

Method: equivalent or similar to OECD 401
Reliability (Klimisch score): 1
Species: Rat (Male/Female Sprague-Dawley)
Routes of exposure: oral
LD50 results: 1591.4 mg/kg
The substance is classified as harmful orally Cat. 4

Method: OECD 402
Reliability (Klimisch score): 1
Species: White Rabbit (New Zealand Male/Female)
Routes of exposure: dermal
LD50 results: 1465.4 mg/kg

SECTION 11. Toxicological information ... / >>

The substance is classified as harmful to the skin Cat. 4

M-PHENYLENEBIS (METHYLAMINE)

LD50 (Dermal):	3100 mg/kg Rat
LD50 (Oral):	> 200 mg/kg Rat - Sprague-Dawley
ATE (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)
LC50 (Inhalation mists/powders):	1,34 mg/l

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE

LD50 (Oral):	1030 mg/kg

SALICYLIC ACID

LD50 (Dermal):	> 2000 mg/kg Rat (OECD 402)
LD50 (Oral):	891 mg/kg Rat (equivalente o similare a OECD 401)

Method: equivalent or similar to OECD 401
Reliability (Klimisch score): 2
Species: Rat (male)
Routes of exposure: oral
Results: LD50 = 891 mg/kg body weight

Based on the weight of evidence of available data determined by expert judgment, the substance is not classified for the acute inhalation toxicity hazard class.

Method: OECD 402
Reliability (Klimisch score): 1
Species: rat (Wistar, male/female)
Routes of exposure: dermal
Results: LD50 > 2000 mg/kg body weight

SKIN CORROSION / IRRITATION

Corrosive for the skin

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: OECD 404
Reliability (Klimisch score): 1
Species: Rabbit (New Zealand Withe)
Routes of exposure: dermal
Results: corrosive

SALICYLIC ACID
Method: OECD 404
Reliability (Klimisch score): 1
Species: rabbit (New Zealand White)
Routes of exposure: dermal
Results: non-irritating

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: equivalent or similar to OECD 405
Reliability (Klimisch score): 1
Species: Rabbit (New Zealand Withe)
Routes of exposure: ocular
Results: corrosive

SALICYLIC ACID
Bibliographic reference: Journal of Toxicological Sciences, 16, 111-130
Reliability (Klimisch score): 2
Species: rabbit
Routes of exposure: ocular
Results: Causes serious eye damage

SECTION 11. Toxicological information ... / >>

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Skin sensitization

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: equivalent or similar to OECD 406
Reliability (Klimisch score): 1
Species: Guinea Pig (Hartley Male/Female)
Routes of exposure: dermal
Results: sensitizing

SALICYLIC ACID
Method: OECD 429
Reliability (Klimisch score): 2
Species: mouse (CBA)
Routes of exposure: dermal
Results: non-sensitizing

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: OECD 478 - In vitro test
Reliability (Klimisch score): 1
Species: human lymphocytes
Results: negative with and without metabolic activation

Method: equivalent or similar to OECD 474
Reliability (Klimisch score): 2
Species: Mouse (Swiss Webster; Male/Female)
Routes of exposure: intraperitoneal
Results: negative

SALICYLIC ACID
Method: OECD 476 - In vitro test
Reliability (Klimisch score): 1
Species: L5178Y murine lymphoma cells
Results: negative with and without metabolic activation

Method: equivalent or similar to OECD 475
Reliability (Klimisch score): 2
Species: mouse (Swiss; male)
Routes of exposure: oral
Results: negative

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: equivalent or similar to OECD 451
Reliability (Klimisch score): 2
Species: Mouse (CH3; Male)
Routes of exposure: dermal
Results: negative. NOAEL >= 20 mg/kg body weight/day

SALICYLIC ACID
Based on available data, the substance does not have carcinogenic effects and is not classified under the CLP hazard class of carcinogenicity.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

SECTION 11. Toxicological information ... / >>

SALICYLIC ACID
Method: equivalent or similar to OECD 416
Reliability (Klimisch score): 2
Species: (Osborne-Mendel; male/female)
Routes of exposure: oral
Results: negative. NOAEL (reproduction) = 250 mg/kg body weight/day; NOAEL (development): 75 mg/kg body weight/day

Adverse effects on development of the offspring

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Method: OECD 414
Reliability (Klimisch score): 2
Species: Rat (albino, Sprague-Dawley)
Routes of exposure: oral
Results: negative. NOAEL (maternal) >= 750 mg/kg body weight/day; NOAEL (fetus) >= 750 mg/kg body weight/day

SALICYLIC ACID
Method: ICH Topic S 5(R2)
Reliability (Klimisch score): 1
Species: rabbit (New Zealand White)
Routes of exposure: oral
Results: negative. NOAEL (maternal): 125 mg/kg body weight/day; NOAEL (malformations): 350 mg/kg body weight/day; NOAEL (development): 250 mg/kg body weight/day.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Based on available data, the substance does not present specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class.

SALICYLIC ACID
Based on available data, the substance does not present specific target organ toxicity effects for single exposure and is not classified under the relevant CLP hazard class.

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
Based on available data, the substance does not present specific target organ toxicity effects upon repeated exposure and is not classified under the relevant CLP hazard class.

SALICYLIC ACID
Reference: Toxicology and Applied Pharmacology 5: 576-687
Reliability (Klimisch score): 2
Species: dog (Beagle; male/female)
Routes of exposure: oral
Results: negative. NOAEL = 50 mg/kg body weight

Method: equivalent or similar to OECD 412
Reliability (Klimisch score): 2
Species: Rat (Alderley Park; female)
Routes of exposure: inhalation (vapour)
Results: negative. NOEC = 635 mg/m3 air

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION
There are no data available on the danger in case of aspiration.

SALICYLIC ACID
There are no data available on the danger in case of aspiration.

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

SECTION 11. Toxicological information ... / >>

have endocrine disrupting effects on humans and cause adverse effects on the exposed individual or his or her progeny:
SALICYLIC ACID
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine
Repeated dose toxicity:
Oral:
NOAEL: 10 mg/kg bw/day (rat)

SECTION 12. Ecological information

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

12.1. Toxicity

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION

LC50 - for Fish	330 mg/l/96h Pimephales promelas (U.S EPA- TSCA, 40 CFR Part 797 1400)
EC50 - for Crustacea	31,1 mg/l/48h Daphnia magna (EU C.1)
EC50 - for Algae / Aquatic Plants	20 mg/l/72h Psuedokirchneriella subcapitata (OECD 201)
EC10 for Crustacea	1,9 mg/l/21d Daphnia magna, (riproduzione; OECD 202)
EC10 for Algae / Aquatic Plants	1,34 mg/l/72h Psuedokirchneriella subcapitata (OECD 201)

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 Pseudokirchneriella subcapitata

SALICYLIC ACID

LC50 - for Fish	1370 mg/l/96h Pimephales promelas (equivalente o similare a OECD 203, struttura analoga)
EC50 - for Crustacea	870 mg/l/48h Daphnia magna (equivalente o similare a OECD 202)
EC50 - for Algae / Aquatic Plants	> 100 mg/l/72h Desmodesmus subspicatus (OECD 201)
Chronic NOEC for Crustacea	10 mg/l/21 giorni Daphnia magna (OECD 202)

EC50 - Toxicity to microorganisms: 380 mg/l/16h Pseudomonas putida (Draft of norm ISO/CD 10712 (1990-10-10))

12.2. Persistence and degradability

BENZYL ALCOHOL
Rapidly degradable

AMINE, POLYETHYLENE POLY, TRIETHYLENETRAMIN FRACTION

NOT rapidly degradable	0% in 162 giorni (OECD 301 D)

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

SALICYLIC ACID

Rapidly degradable	> 90% in 14 giorni (EU Method C.9)

12.3. Bioaccumulative potential

BENZYL ALCOHOL

Partition coefficient: n-octanol/water	1,1

M-PHENYLENEBIS (METHYLAMINE)

Partition coefficient: n-octanol/water	0,18

12.4. Mobility in soil

SALICYLIC ACID

SECTION 12. Ecological information ... / >>

The value of Koc = 404 indicates moderate mobility in the soil for salicylic acid (HSDB, 2019).
The value of Henry's constant indicates little volatilization from water and moist soil (HSDB, 2019).
It does not volatilize from dry soils (HSDB, 2019).
Based on the pKa value, it exists predominantly in anionic dissociated form and does not significantly adsorb to neutral organic and earthy components of soils and sediments (HSDB, 2019).

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.
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.
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: UN 2735

14.2. UN proper shipping name

ADR / RID: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

IMDG: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

IATA: AMINES, LIQUID, CORROSIVE, N.O.S. or POLYAMINES, LIQUID, CORROSIVE, N.O.S. (4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamine)

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: II

SECTION 14. Transport information ... / >>

14.5. Environmental hazards

ADR / RID:	NO
IMDG:	not marine pollutant
IATA:	NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 80 Special provision: 274	Limited Quantities: 1 L	Tunnel restriction code: (E)
IMDG:	EMS: F-A, S-B	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 30 L	Packaging instructions: 855
	Passengers:	Maximum quantity: 1 L	Packaging instructions: 851
	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

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:

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
Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1A	Skin sensitization, category 1A
Skin Sens. 1B	Skin sensitization, category 1B

SECTION 16. Other information ... / >>

Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H361d	Suspected of damaging the unborn child.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- 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
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY
1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
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
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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 (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707

SECTION 16. Other information ... / >>

24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)

- 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
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

Changes to previous review:
The following sections were modified:
02 / 04 / 09 / 11 / 12 / 13 / 14.