

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: **0430162P**
Product name: **SYNTECH PU FOAM 30 COMP.B**
UFI: **54V0-V0MK-500J-PS88**

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

Intended use: **Closed cell expanded polyurethane covering of 30 kg/m3**

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:

Reproductive toxicity, category 1B	H360D	May damage the unborn child.
Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.
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:

H360D May damage the unborn child.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
EUH071 Corrosive to the respiratory tract.

Precautionary statements:

P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P308+P313 IF exposed or concerned: Get medical advice / attention.
P261 Avoid breathing dust / fume / gas / mist / vapours / spray.
P337+P313 If eye irritation persists: Get medical advice / attention.
P264 Wash . . . thoroughly after handling.

Contains: Potassium 2-ethylhexanoate
Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq$ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated		
INDEX	$16,5 \leq x < 18$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1A H317, Aquatic Chronic 2 H411
EC	701-426-6	
CAS		
REACH Reg.	01-2119972945-20-0000	
Glycerol, propoxylated		
INDEX	$13,5 \leq x < 15$	Acute Tox. 4 H302 LD50 Oral: 2000 mg/kg
EC	500-044-5	
CAS	25791-96-2	
TRIS(2-CHLOROISOPROPYL)PHOSPHATE		
INDEX	$8,5 \leq x < 10$	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315 ATE Oral: 500 mg/kg
EC	237-158-7	
CAS	13674-84-5	
REACH Reg.	01-2119447716-31-0000	
TRIETHYLPHOSPHATE		
INDEX	$015-013-00-7$	Acute Tox. 4 H302, Eye Irrit. 2 H319 ATE Oral: 500 mg/kg
EC	201-114-5	
CAS	78-40-0	
N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine		
INDEX	$1,5 \leq x < 2$	Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Corr. 1C H314, Eye Dam. 1 H318, EUH071 ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l
EC	251-459-0	
CAS	33329-35-0	
Bis(2-dimethylaminoethyl)oxide		
INDEX	$0,8 \leq x < 0,9$	Acute Tox. 3 H311, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1B H314, Eye Dam. 1 H318, EUH071 LD50 Oral: 603 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 11 mg/l
EC	221-220-5	
CAS	3033-62-3	

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

Potassium 2-ethylhexanoate

INDEX

$0,35 \leq x < 0,4$

Repr. 1B H360D, Eye Dam. 1 H318, Skin Irrit. 2 H315

EC 221-625-7

CAS 3164-85-0

REACH Reg. 01-2119980714-29

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. 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

IF exposed or concerned: Get medical advice / attention.

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

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0056	mg/l
Normal value in marine water	0,00056	mg/l
Normal value for fresh water sediment	0,102	mg/kg
Normal value for marine water sediment	0,0102	mg/kg
Normal value for marine water, intermittent release	0,056	mg/l
Normal value of STP microorganisms	3,14	mg/l
Normal value for the terrestrial compartment	0,0173	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		0,9 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	1,6 mg/m3	NPI	NPI	NPI	7,7 mg/m3
Skin	MED	NPI	HIGH	0,9 mg/kg bw/d	MED	NPI	HIGH	2,2 mg/kg bw/d

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

Glycerol, propoxylated

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	0,52	mg/kg
Normal value for marine water sediment	0,052	mg/kg
Normal value for marine water, intermittent release	1	mg/l
Normal value of STP microorganisms	1000	mg/l
Normal value for the terrestrial compartment	0,0665	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		8,3 mg/kg bw/d				
Inhalation	NPI	NPI	NPI	29 mg/m3	NPI	NPI	NPI	98 mg/m3
Skin	NPI	NPI	NPI	8,3 mg/kg bw/d	NPI	NPI	NPI	13,9 mg/kg bw/d

TRIETHYLPHOSPHATE

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,632	mg/l
Normal value in marine water	0,0632	mg/l
Normal value for fresh water sediment	5	mg/kg
Normal value for marine water sediment	0,5	mg/kg
Normal value for marine water, intermittent release	9	mg/l
Normal value of STP microorganisms	298,5	mg/l
Normal value for the terrestrial compartment	0,64	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		5 mg/kg bw/d		1 mg/kg bw/d				
Inhalation	LOW	NPI	LOW	1,74 mg/m3	LOW	NPI	LOW	9,9 mg/m3
Skin	NPI	NPI	NPI	1 mg/kg bw/d	LOW	NPI	LOW	2 mg/kg bw/d

N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,137	mg/l
Normal value in marine water	0,0137	mg/l
Normal value for fresh water sediment	0,6	mg/kg
Normal value for marine water sediment	0,06	mg/kg
Normal value for marine water, intermittent release	0,5	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,6	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		NPI				
Inhalation	NPI	2,61 mg/m3	NPI	0,87 mg/m3	MED	10,59 mg/m3	MED	3,53 mg/m3
Skin	NPI	NPI	NPI	NPI	MED	MED	MED	MED

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

Bis(2-dimethylaminoethyl)oxide

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,023	mg/l
Normal value in marine water	0,0023	mg/l
Normal value for fresh water sediment	0,019	mg/kg
Normal value for marine water sediment	0,0019	mg/kg
Normal value for marine water, intermittent release	0,23	mg/l
Normal value of STP microorganisms	7,2	mg/l
Normal value for the terrestrial compartment	0,007	mg/kg
Normal value for the atmosphere	NPI	

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		0,047 mg/kg bw/d				
Inhalation	NPI	NPI	0,013 mg/m3	0,041 mg/m3	NPI	NPI	0,08 mg/m3	0,16 mg/m3
Skin	MED	NPI	HIGH		MED	MED	HIGH	HIGH

Potassium 2-ethylhexanoate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,36	mg/l
Normal value in marine water	0,036	mg/l
Normal value for fresh water sediment	6,37	mg/kg
Normal value for marine water sediment	0,637	mg/kg
Normal value for marine water, intermittent release	0,493	mg/l
Normal value of STP microorganisms	71,7	mg/l
Normal value for the terrestrial compartment	1,06	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		NPI		2,5 mg/kg bw/d				
Inhalation	NPI	NPI		8 mg/m3	NPI	NPI		32 mg/m3
Skin	NPI	NPI	NPI	2,98 mg/kg bw/d	NPI	NPI	NPI	5,95 mg/kg bw/d

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).

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.

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

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	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	
Dynamic viscosity	400 mPas	Temperature: 22 °C
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,113 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) 34,85 % - 387,88 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.

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

Decomposes above 150°C/302°F.

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

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

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

Keep away from: strong acids, oxidising agents, strong alkalis, isocyanates.

10.6. Hazardous decomposition products

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

May develop: hydrogen chloride, phosphoryl oxides, chlorinated hydrocarbons.

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

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: >2000 mg/kg

Corrosive to the respiratory tract.

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

LD50 (Dermal): 2000 mg/kg Rat

LD50 (Oral): 2000 mg/kg Rat

Glycerol, propoxylated

LD50 (Dermal): 2000 mg/kg Rat

LD50 (Oral): 2000 mg/kg Rat

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

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)

TRIETHYLPHOSPHATE

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 vapours): 8,817 mg/l/4h Rat

N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine

LD50 (Dermal): 976 mg/kg Rabbit

ATE (Dermal): 1100 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)

LD50 (Oral): 2385 mg/kg

LC50 (Inhalation vapours): 1,8 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)

Bis(2-dimethylaminoethyl)oxide

ATE (Dermal): 300 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)

LD50 (Oral): 603 mg/kg Rat

LC50 (Inhalation vapours): 2204 mg/l/4h

SECTION 11. Toxicological information ... / >>

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)

Potassium 2-ethylhexanoate

LD50 (Dermal):

2000 mg/kg Rat

LD50 (Oral):

2043 mg/kg Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

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

May damage the unborn child

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 does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

Repeated dose toxicity:

Oral:

NOAEL: 37.5 mg/kg bw/day (Rat)

Glycerol, propoxylated

Repeated dose toxicity:

Oral:

NOAE: 1 000 mg/kg bw/day (Rat)

TRIETHYLPHOSPHATE

Repeated dose toxicity:

Oral:

NOAEL: 200 mg/kg bw/day (Rat)

N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine

Repeated dose toxicity:

Oral:

NOAEL: 200 mg/kg bw/day (Rat)

SECTION 11. Toxicological information ... / >>

Bis(2-dimethylaminoethyl)oxide

Repeated dose toxicity:

Inhalation:

NOAEC: 8.2 mg/m³ air (Rat)

LOAEC: 1.51 mg/m³ air (Rat)

Cutaneous:

NOAEL: 8 mg/kg bw/day (rabbit)

Potassium 2-ethylhexanoate

Repeated dose toxicity:

Oral:

NOAEL: 61 - 71 mg/kg bw/day (rat)

NOAEL: 180 - 205 mg/kg bw/day (mouse)

LOAEL: 303 - 360 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

Reaction product of p-nonylphenol, formaldehyde and diethanolamine, propoxylated

EC50 - for Crustacea 6,5 mg/l/48h

EC50 - for Algae / Aquatic Plants 4 mg/l/72h

EC10 for Algae / Aquatic Plants 1,8 mg/l/72h

Chronic NOEC for Algae / Aquatic Plants 1,4 mg/l (72h)

Glycerol, propoxylated

LC50 - for Fish 1000 mg/l/96h

EC50 - for Crustacea 100 mg/l/48h

EC50 - for Algae / Aquatic Plants 100 mg/l/72h

Chronic NOEC for Crustacea 10 mg/l (21 days)

Chronic NOEC for Algae / Aquatic Plants 100 mg/l (72h)

TRIETHYLPHOSPHATE

LC50 - for Fish 100 mg/l/96h

EC50 - for Algae / Aquatic Plants 901 mg/l/72h

EC10 for Algae / Aquatic Plants 127 mg/l/72h

Chronic NOEC for Crustacea 31,6 mg/l (21 days)

N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine

LC50 - for Fish 92,5 mg/l/96h

EC50 - for Crustacea 48 mg/l/48h

EC50 - for Algae / Aquatic Plants 6,9 mg/l/72h

EC10 for Algae / Aquatic Plants 0,5 mg/l/72h

Chronic NOEC for Fish 21,5 mg/l (96h)

Chronic NOEC for Crustacea 9 mg/l (9 days)

Bis(2-dimethylaminoethyl)oxide

LC50 - for Fish 131,2 mg/l/96h

EC50 - for Crustacea 102 mg/l/48h

EC50 - for Algae / Aquatic Plants 4 mg/l/72h

EC10 for Algae / Aquatic Plants 1,1 mg/l/72h

Chronic NOEC for Fish 46,4 mg/l (96h)

Chronic NOEC for Algae / Aquatic Plants 0,26 mg/l (72h)

Potassium 2-ethylhexanoate

LC50 - for Fish 100 mg/l/96h

EC50 - for Crustacea 85,4 mg/l/48h

EC50 - for Algae / Aquatic Plants 49,3 mg/l/72h

EC10 for Algae / Aquatic Plants 32 mg/l/72h

Chronic NOEC for Crustacea 25 mg/l (21 days)

12.2. Persistence and degradability

SECTION 12. Ecological information ... / >>

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

Solubility in water 1000 - 10000 mg/l

Inherently degradable

TRIETHYLPHOSPHATE

Inherently degradable 33% not fulfilling specific criteria

Potassium 2-ethylhexanoate

Rapidly degradable

12.3. Bioaccumulative potential

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

Partition coefficient: n-octanol/water 2,68

BCF 0,8

12.4. Mobility in soil

TRIS(2-CHLOROISOPROPYL)PHOSPHATE

Partition coefficient: soil/water 2,76

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 $\geq$ 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.

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

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

not applicable

14.3. Transport hazard class(es)

not applicable

14.4. Packing group

not applicable

SECTION 14. Transport information ... / >>

14.5. Environmental hazards

not applicable

14.6. Special precautions for user

not applicable

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 $\geq$ 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. 1B	Reproductive toxicity, category 1B
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1C	Skin corrosion, category 1C
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
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H360D	May damage the unborn child.
H311	Toxic in contact with skin.

SECTION 16. Other information ... / >>

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.
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.

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
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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)

SECTION 16. Other information ... / >>

- 23. Delegated Regulation (UE) 2023/707
- 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)

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- 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 / 12 / 13 / 16.