



Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

1.2. Product name

Top Pro Heat Coat part B
UFI: RS30-60VK-S00R-SESK

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

Intended use Mixture of polyols. Part of the two-component system for labels domes
For professional and industrial use only.

Identified uses

ES 10

Nr. Reg. 01-2119480479-24-0002

ES 12

Uses advised against

Uses other than as recommended above

1.4. Details of the supplier of the safety data sheet.

Name.

Resin Pro S.r.l.

Full address.

Via 25 aprile z.i. snc

District and Country.

19021 Arcola (SP) ITALY

Tel. +39 0187 955108

e-mail address of the competent person.

Responsible for the Safety Data Sheet.

info@resinpro.it

1.5. Emergency telephone number.

For urgent inquiries refer to:

Use NHS 111 online (111.nhs.uk) or call 111 if you think you need medical help right now
(<https://www.nhs.uk/nhs-services/urgent-and-emergency-care-services/when-to-use-111/>)
National Poisons Information Service (Birmingham Unit), ZIP/Postcode: B187QH, United
Kingdom, Emergency number: 844 892 0111, (H24)

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 2015/830.
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:

Specific target organ toxicity - repeated exposure, category 2

H373 May cause damage to organs through prolonged or repeated exposure.

Serious eye damage, category 1

H318 Causes serious eye damage.

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:



Signal words: DANGER

Hazard statements:

H373	May cause damage to organs through prolonged or repeated exposure.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements:

P102	keep out of reach of children
P103	read label before use
P404	store in a closed container
P405	store locked up
P501	dispose of contents / container in accordance with regulations on hazardous waste or packaging and packaging waste respectively
P260	Do not breathe vapors.
P273	Avoid release to the environment.
P280	Wear protective gloves / eye protection / face protection.
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:	TOLYLMERCURY NEODECANOATE 3-AMINOPROPYLTRIETHOXYSILANE
	Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)
	BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE
	METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

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%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
3-AMINOPROPYLTRIETHOXYSILANE		
CAS 919-30-2	$4,5 \leq x < 5$	Acute Tox. 4 H302, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317
EC 213-048-4		
INDEX 612-108-00-0		
Reg. no. 01-2119480479-24-0002		

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

CAS - $1 \leq x < 1,5$ Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC 400-830-7

INDEX 607-176-00-3

Reg. no. 01-0000015075-76

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE

CAS 41556-26-7 $0,25 \leq x < 0,3$ Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 255-437-1

INDEX -

Reg. no. -

METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

CAS 82919-37-7 $0,25 \leq x < 0,3$ Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC 280-060-4

INDEX -

Reg. no. -

TOLYLMERCURY NEODECANOATE

CAS - $0,1 \leq x < 0,2$ Acute Tox. 1 H310, Acute Tox. 2 H300, Acute Tox. 2 H330, STOT RE 1 H372, Skin Corr. 1 H314, Eye Dam. 1 H318, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1, Classification note/notes according to Annex VI to the CLP Regulation: 1, A

INDEX 080-004-00-7

Reg. no. -

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 authorized 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.

PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS: for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

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

In the event of an accident or illness, seek medical advice immediately (if possible show instructions for use or safety data sheet).

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)

No use other than as indicated in section 1.2 of this safety data sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

TLV-ACGIH

ACGIH 2021

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,0023	mg/l
Normal value in marine water	0,00023	mg/l
Normal value for fresh water sediment	3,06	mg/kg
Normal value for marine water sediment	0,306	mg/kg
Normal value for water, intermittent release	0,028	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	2	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				NEA				
Inhalation				0,099			VND	0,35 mg/m3
Skin				0,025			VND	0,5 mg/kg bw/d

TOLYLMERCURY NEODECANOATE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH		0,01				Skin (Alkyl compound as Hg)

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.

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

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 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

Appearance	Liquid
Colour	Colourless
Odour	Odourless
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	208 °C (closed cup - Reg. CE 440/2008 - Part A9)
Evaporation Rate	Not available
Flammability of solids and gases	Not applicable, liquid product
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1,07 g/cm ³
Solubility	insoluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	550 - 750 cPs (25°C)
Explosive properties	Product is not explosive based on the composition
Oxidising properties	Product non-oxidizing based on the composition

9.2. Other information

Information not available.

SECTION 10. Stability and reactivity

10.1. Reactivity

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

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

Moisture, heat and other ignition sources.

10.5. Incompatible materials

Avoid contact with: strong acids, strong oxidising agents, strong alkalis.

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.

3-AMINOPROPYLTRIETHOXYSILANE

in case of hydrolysis: ethanol

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 toxicological effects

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) of the mixture: > 5 mg/l

ATE (Oral) of the mixture: > 2000 mg/kg

ATE (Dermal) of the mixture: > 2000 mg/kg

TOLYLMERCURY NEODECANOATE

LD50 (Oral) 5 mg/kg Acute toxicity point estimates (Table 3.1.2 Reg. (EU) 1272/2008)

LD50 (Dermal) 5 mg/kg Acute toxicity point estimates (Table 3.1.2 Reg. (EU) 1272/2008)

LC50 (Inhalation) 0,05 mg/l/4h Acute toxicity point estimates (Table 3.1.2 Reg. (EU) 1272/2008)

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

LD50 (Oral) > 5000 mg/kg (Rat; OECD Guideline 401, GLP)

LD50 (Dermal) > 2000 mg/kg (Rat; OECD Guideline 402, GLP)

LC50 (Inhalation) > 5,8 mg/l/4h (Rat; OECD Guideline 403)

3-AMINOPROPYLTRIETHOXYSILANE

Bibliographical references: Study report (1956)

Reliability (Klimisch score): 2

Specie: rat (Caworth Wistar)

Exposure: oral

Results DL50: 1780 m/kg

The substance is classified as acute toxic Cat. 4 (Harmonized classification, CLP Reg., Annex VI)

Method: OECD 403

Reliability (Klimisch score): 2

Species: rat (Wistar Male/female)

Exposure: Inhalation (aerosol)

Results CL50: > 7,35 mg/l 4h

Method: EPA OTS 798.1100

Reliability (Klimisch score): 2

Species: rabbit (New Zealand)

Exposure: dermal

Results DL50: 1290 mg/kg

SKIN CORROSION / IRRITATION

Causes skin irritation

3-AMINOPROPYLTRIETHOXYSILANE

Method: equivalente o similare a OECD 404

Reliability (Klimisch score): 2

Specie: rabbit (New Zealand)

Results: corrosive Cat. 1B - Harmonized classification, Annex VI, CLP Reg

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Method: OECD 404, GLP

Type: rabbit

Results: not irritating

TOLYLMERCURY NEODECANOATE

Causes severe skin burns and eye damage (Safety data sheet of the supplier)

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

3-AMINOPROPYLTRIETHOXYSILANE

Method: equivalent or similar to OECD 405

Reliability (Klimisch score): 2

Specie: rabbit (New Zealand)

Results: corrosive

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Method: OECD 405, GLP

Type: rabbit

Results: not irritating

TOLYLMERCURY NEODECANOATE

Causes serious eye damage (Safety data sheet of the supplier)

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

Skin sensitization

3-AMINOPROPYLTRIETHOXYSILANE

Method: OECD 406

Reliability (Klimisch score): 1

Species: guinea pig (Hartley Male/Female)

Results: sensibilizzante.

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Method: OECD 406, GLP

Type: Guinea pig

Results: sensitizing

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE

sensibilizzante per la cute (dato di classificazione disponibile nella SDS del fornitore).

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

3-AMINOPROPYLTRIETHOXYSILANE

Method: OECD 473

Reliability (Klimisch score): 1

Test in vitro

Results: negative

Method: equivalent or similar to OECD 474

Reliability (Klimisch score): 1

Test in vivo

Specie: topo (Swiss Webster Male/Female)

Results: negative

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Based on the evidence of available data, determined by the judgement of experts, the substance is not classified for the hazard class CLP of germ cell mutagenicity.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

3-AMINOPROPYLTRIETHOXYSILANE

Bibliographical references: study report (1987)

Reliability (Klimisch score): 2

Species: mouse (C3H/Bd Male/Female)

Exposure: dermal

Results NOAEL: 209 mg/kg

The substance is not classified for this hazard class.

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

No data are available on the carcinogenic effects.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Based on the evidence of available data, determined by the judgement of experts, the substance is not classified for the hazard class CLP of reproductive

toxicity.

Adverse effects on sexual function and fertility

3-AMINOPROPYLTRIETHOXYSILANE

Method: OECD 408

Reliability (Klimisch score): 1

Species: rat (CrI:CD (SD) IGS BR Male/Female)

Routes of exposure: oral

Results NOAEL (systemic): 200 mg / kg

Results NOAEL (reproduction): 600 mg / kg Results

LOAEL (systemic): 600 mg / kg

The substance is not classified for this hazard class.

Adverse effects on development of the offspring

3-AMINOPROPYLTRIETHOXYSILANE

Method: EPA OTS 798.4900

Reliability (Klimisch score): 1

Species: rat (Charles River CrI:CD VAF/Plus)

Routes of exposure: oral Results

NOAEL (maternal): 100 mg / kg

Results LOAEL (maternal): 600 mg / kg

Results LOAEL (development): 600 mg / kg weight

The substance is not classified for this hazard class.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

3-AMINOPROPYLTRIETHOXYSILANE

Based on the evidence of available data, determined by the judgement of experts, the substance is not classified for the hazard class CLP of stot - single exposure.

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Based on the evidence of available data, determined by the judgement of experts, the substance is not classified for the hazard class CLP of stot - single exposure.

STOT - REPEATED EXPOSURE

May cause damage to organs

3-AMINOPROPYLTRIETHOXYSILANE

Based on available data, the substance has no specific target organ toxicity effects on repeated exposure and is not classified under the relevant CLP hazard class.

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Prolonged oral administration of the substance may damage the liver.

TOLYLMERCURY NEODECANOATE

Causes damage to organs through prolonged or repeated exposure (STO-RE, Cat.1 - Safety data sheet of the supplier)

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

There no available data for the hazard class CLP of aspiration hazard.

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

3-AMINOPROPYLTRIETHOXYSILANE

LC50 - for Fish	> 934 mg/l/96h Danio rerio; OECD 203
EC50 - for Crustacea	331 mg/l/48h Daphnia magna; OECD 202
EC50 - for Algae / Aquatic Plants	603 mg/l/72h Desmodesmus subspicatus; EU C.3

TOLYLMERCURY NEODECANOATE

LC50 - for Fish	0,155 mg/l/96h As Hg - Publication: Aquat. Toxicol., 2, 143-156
EC50 - for Crustacea	0,029 mg/l/48h As Hg - Publication: Bull. Environ. Contam. Toxicol., 42, 325-330
Chronic NOEC for Fish	0,011 mg/l/32 d As Hg - Publication: Mar. Environ. Res., 3, 195-213)
Chronic NOEC for Crustacea	0,02 mg/l/7 d As Hg - Publication: Trop. Ecol., 298 (1), 71-78.)

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL) SEBACATE

LC50 - for Fish	0,97 mg/l Zebra fish (Classification data available in the supplier's SDS)
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METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE

LC50 - for Fish	0,97 mg/l/96h Zebra Fish (Classification data available in the supplier's SDS)
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Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

LC50 - for Fish	2,8 mg/l/96h Oncorhynchus mykiss (OECD Guideline 203, in GLP)
EC50 - for Crustacea	4 mg/l/48h Daphnia magna (EPA Guideline EG-1, in GLP)
EC50 - for Algae / Aquatic Plants	> 9 mg/l/72h Pseudokirchneriella subcapitata (OECD Guideline 201, in GLP)
Chronic NOEC for Crustacea	0,78 mg/l 21 d, OECD Guideline 211 (Daphnia magna Reproduction Test)

12.2. Persistence and degradability

3-AMINOPROPYLTRIETHOXYSILANE

NOT rapidly degradable EU C.4-A: 67% in 28d

Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

NOT rapidly degradable 24% - 28 d (OECD 301B)

12.3. Bioaccumulative potential

3-AMINOPROPYLTRIETHOXYSILANE

BCF	3,4 Cyprinus carpio - Measured
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Reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)

Partition coefficient: n-octanol/water	5,9 (25°C, pH:7) (OCSE 117, rif. 2)
BCF	34 (502h) Oncorhynchus mykiss (OECD 305)

12.4. Mobility in soil

Information not available

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. 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.

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

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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/EC:

None

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

Product

Point 3.
Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/ 2008:
(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15

types A to F;
 (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;
 (c) hazard class 4.1;
 (d) hazard class 5.1.

Contained substance

Point 18- TOLYLMERCURY NEODECANOATE

Regulation (EC) No. 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 (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

TOLYLMERCURY NEODECANOATE - (MERCURY COMPOUNDS)

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 been performed for the following contained substances

3-AMINOPROPYLTRIETHOXYSILANE

SECTION 16. Other information

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

Acute Tox. 1	Acute toxicity, category 1
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
STOT RE 1	Specific target organ toxicity - repeated exposure, category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, category 2
Skin Corr. 1B	Skin corrosion, category 1B
Skin Corr. 1	Skin corrosion, category 1
Eye Dam. 1	Serious eye damage, category 1
Skin Irrit. 2	Skin irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic toxicity, category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3

H310	Fatal in contact with skin.
H300	Fatal if swallowed.
H330	Fatal if inhaled.
H302	Harmful if swallowed.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- 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) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 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) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Regulation (EU) 2020/217 (XIV 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

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.

Note for the recipient of the Safety Data Sheet (SDS):

The recipient of this SDS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SDS is referred to. In particular, the recipient shall provide adequate training to the personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture.

However, the substance or mixture referred to by this SDS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.

The information included in this SDS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SDS. It shall not be meant that the SDS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture specifically designated in Section 1 and it could not be valid for the substance or mixture used in combination with other materials or in any process not specified in the text.

Exposure scenarios

3-AMINOPROPYLTRIETHOXYSILANE Reg. no. 01-2119480479-24-0002

Identified uses	ES 10
	ES 12