DELTALUQ

Printing: 31/03/2026 Date of compilation: 31/01/2025 Version: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: DELTALUQ

Other means of identification:

Not relevant

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

Relevant uses (Professional users): Insecticide for agricultural use
For Professional users only.
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

LÉRIDA UNIÓN QUÍMICA, S.A. (LUQSA)
Afueras, s/n
25173 Sudanell - Lleida - España
Phone: 973258256
info@luqsa.es
www.luqsa.com

1.4 Emergency telephone number: +34 973 258 256 (Solo disponible en horario de oficina; Lunes-Viernes; 09:00-18:00h; Horario de oficina agosto: Lunes-Viernes; 07:00-15:00h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

Classification of this product has been carried out in accordance with CLP Regulation (EC) No 1272/2008.

Acute Tox. 4: Acute inhalation toxicity, Category 4, H332
Acute Tox. 4: Acute toxicity if swallowed, Category 4, H302
Aquatic Acute 1: Hazardous to the aquatic environment, acute hazard, Category 1, H400
Aquatic Chronic 1: Hazardous to the aquatic environment, long-term hazard, Category 1, H410
Asp. Tox. 1: Aspiration hazard, Category 1, H304
Eye Dam. 1: Serious eye damage, Category 1, H318
Flam. Liq. 3: Flammable liquids, Category 3, H226
Skin Sens. 1: Sensitisation, skin, Category 1, H317
STOT SE 3: Respiratory tract toxicity, single exposure, Category 3, H335

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Danger

Hazard statements:

H226 - Flammable liquid and vapour.
H302+H332 - Harmful if swallowed or if inhaled.
H304 - May be fatal if swallowed and enters airways.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:

- CONTINUED ON NEXT PAGE -

SECTION 2: HAZARDS IDENTIFICATION (continued)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands thoroughly after handling
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P331: Do NOT induce vomiting.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P391: Collect spillage.
P501: Dispose of the contents/containers in accordance with the current legislation on waste treatment.

Supplementary information:

EUH066: Repeated exposure may cause skin dryness or cracking.
EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

2.3 Other hazards:

Product does not meet PBT/vPvB criteria
Endocrine-disrupting properties: The product does not meet the criteria.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Biocide/s

Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
CAS: 128601-23-0 EC: 918-668-5 Index: Not relevant REACH: 01-2119455851-35-XXXX	**Hydrocarbons, C9, aromatics**[1]	Self-classified	**75 - <100%**
	Regulation 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Danger	
CAS: 68953-96-8 EC: 273-234-6 Index: Not relevant REACH: 01-2119964467-24-XXXX	**Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts**[1]	Self-classified	**2.5 - <10%**
	Regulation 1272/2008	Acute Tox. 4: H312; Aquatic Chronic 2: H411; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	
CAS: 52918-63-5 EC: 258-256-6 Index: 607-319-00-X REACH: Not relevant	**deltamethrin (ISO)**[1]	ATP ATP01	**2.5 - <10%**
	Regulation 1272/2008	Acute Tox. 3: H301+H331; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 - Danger	
CAS: 78-83-1 EC: 201-148-0 Index: 603-108-00-1 REACH: 01-2119484609-23-XXXX	**2-methylpropan-1-ol**[1]	ATP CLP00	**2.5 - <10%**
	Regulation 1272/2008	Eye Dam. 1: H318; Flam. Liq. 3: H226; Skin Irrit. 2: H315; STOT SE 3: H335; STOT SE 3: H336 - Danger	
CAS: 64-19-7 EC: 200-580-7 Index: 607-002-00-6 REACH: 01-2119475328-30-XXXX	**Acetic acid**[2]	ATP CLP00	**<1%**
	Regulation 1272/2008	Flam. Liq. 3: H226; Skin Corr. 1A: H314 - Danger	

[1] Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2020/878
[2] Substance with a Union workplace exposure limit

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	M-factor	
deltamethrin (ISO) CAS: 52918-63-5 EC: 258-256-6	Acute	1000000
	Chronic	1000000

- CONTINUED ON NEXT PAGE -

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Specific concentration limit
Acetic acid CAS: 64-19-7 EC: 200-580-7	% (w/w) >=90: Skin Corr. 1A - H314 25<= % (w/w) <90: Skin Corr. 1B - H314 10<= % (w/w) <25: Skin Irrit. 2 - H315 % (w/w) >=25: Eye Dam. 1 - H318 10<= % (w/w) <25: Eye Irrit. 2 - H319

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
deltamethrin (ISO) CAS: 52918-63-5 EC: 258-256-6	LD50 oral	87 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	3 mg/L *	
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts CAS: 68953-96-8 EC: 273-234-6	LD50 oral	Not relevant	
	LD50 dermal	1300 mg/kg	Rat
	LC50 inhalation vapour	Not relevant	

*Equivalent ATE value of the substance applicable to the exposure route of the product. For the ATE value associated with the exposure route of the substance, see section 11.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the affected person from the area of exposure, provide them with fresh air, and keep them at rest. In severe cases such as cardiorespiratory arrest, administer artificial respiration techniques if properly trained (CPR, oxygen provision, etc.) and seek immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administer anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

- CONTINUED ON NEXT PAGE -

SECTION 5: FIREFIGHTING MEASURES (continued)

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EEC.

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

Avoid at all cost any type of spillage into an aqueous medium. Contain the product absorbed appropriately in hermetically sealed containers. Notify the relevant authority in case of exposure to the general public or the environment.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

- CONTINUED ON NEXT PAGE -

SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in Directive 2014/34/EC (ATEX 100) and with the minimum requirements for protecting the security and health of workers under the selection criteria of Directive 1999/92/EC (ATEX 137). Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

Due to the danger of this product for the environment it is recommended to use it within an area containing contamination control barriers in case of spillage, as well as having absorbent material in close proximity.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 5 ºC

Maximum Temp.: 30 ºC

Maximum time: 24 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace (European OEL, not country-specific legislation):

Directive (EU) 2000/39, Directive 2004/37/EC,Directive (EU) 2006/15, Directive (EU) 2009/161, Directive (EU) 2017/164, Directive (EU) 2019/1831:

Identification	Occupational exposure limits		
Acetic acid	IOELV (8h)	10 ppm	25 mg/m³
CAS: 64-19-7 EC: 200-580-7	IOELV (STEL)	20 ppm	50 mg/m³

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	25 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	150 mg/m³	Not relevant
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 68953-96-8	Dermal	Not relevant	Not relevant	8,5 mg/kg	Not relevant
EC: 273-234-6	Inhalation	Not relevant	Not relevant	6 mg/m³	Not relevant
2-methylpropan-1-ol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-83-1	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 201-148-0	Inhalation	Not relevant	Not relevant	Not relevant	310 mg/m³
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m³	Not relevant	25 mg/m³

DNEL (General population):

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Hydrocarbons, C9, aromatics	Oral	Not relevant	Not relevant	11 mg/kg	Not relevant
CAS: 128601-23-0	Dermal	Not relevant	Not relevant	11 mg/kg	Not relevant
EC: 918-668-5	Inhalation	Not relevant	Not relevant	32 mg/m³	Not relevant
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Oral	Not relevant	Not relevant	0,43 mg/kg	Not relevant
CAS: 68953-96-8	Dermal	Not relevant	Not relevant	4,25 mg/kg	Not relevant
EC: 273-234-6	Inhalation	Not relevant	Not relevant	1,48 mg/m³	Not relevant
2-methylpropan-1-ol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 78-83-1	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 201-148-0	Inhalation	Not relevant	Not relevant	Not relevant	55 mg/m³
Acetic acid	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 64-19-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 200-580-7	Inhalation	Not relevant	25 mg/m³	Not relevant	25 mg/m³

PNEC:

Identification				
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	STP	5,5 mg/L	Fresh water	0,023 mg/L
CAS: 68953-96-8	Soil	0,124 mg/kg	Marine water	0,002 mg/L
EC: 273-234-6	Intermittent	0,29 mg/L	Sediment (Fresh water)	1,35 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,135 mg/kg
2-methylpropan-1-ol	STP	10 mg/L	Fresh water	0,4 mg/L
CAS: 78-83-1	Soil	0,076 mg/kg	Marine water	0,04 mg/L
EC: 201-148-0	Intermittent	11 mg/L	Sediment (Fresh water)	1,56 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0,156 mg/kg
Acetic acid	STP	85 mg/L	Fresh water	3,058 mg/L
CAS: 64-19-7	Soil	0,47 mg/kg	Marine water	0,306 mg/L
EC: 200-580-7	Intermittent	30,58 mg/L	Sediment (Fresh water)	11,36 mg/kg
	Oral	Not relevant	Sediment (Marine water)	1,136 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Regulation (EU) 2016/425. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	CE CAT III	EN 405:2001+A1:2009	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.4 mm)	CE CAT III	EN ISO 21420:2020	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

- CONTINUED ON NEXT PAGE -

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

D.- Eye and face protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Face shield	CE CAT II	EN ISO 16321-1:2022 + EN ISO 16321-3:2022 EN ISO 18526-(1,2,3,4):2020 EN ISO 18526-(1,2,3,4):2020 EN ISO 4007:2018	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	CE CAT III	EN 1149-1,2,3 EN 13034:2005+A1:2009 EN ISO 13982-1:2004/A1:2010 ISO 6529:2013 EN ISO 6530:2005 EN ISO 13688:2013/A1:2021 EN 464:1994	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	CE CAT III	EN ISO 13287:2019 EN ISO 20345:2022 EN 13832-1:2018	Replace boots at any sign of deterioration.

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

Volatile organic compounds:

With regard to Directive 2010/75/EU, this product has the following characteristics:

V.O.C. (Supply):	90 % weight
V.O.C. density at 20 ºC:	806,2 kg/m³ (806,2 g/L)
Average carbon number:	8,71
Average molecular weight:	117,38 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Oily
Colour:	Yellow
Odour:	Not relevant *
Odour threshold:	Not relevant *

Volatility:

*Not relevant due to the nature of the product, not providing information property of its hazards.

- CONTINUED ON NEXT PAGE -

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Boiling point at atmospheric pressure:	160 ºC
Vapour pressure at 20 ºC:	332 Pa
Vapour pressure at 50 ºC:	2045,75 Pa (2,05 kPa)
Evaporation rate at 20 ºC:	Not relevant *
Product description:	
Density at 20 ºC:	895,8 kg/m³
Relative density at 20 ºC:	0,889
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	<=20,5 mm²/s
Concentration:	Not relevant *
pH:	6 - 8 (at 1 %)
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	37 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	>400 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:	
Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

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

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Exposure in high concentration can interfere with the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
- Corrosivity/Irritability: Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for skin contact. For more information see section 3.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: Hydrocarbons, C9, aromatics (3: Not classifiable as to its carcinogenicity to humans); deltamethrin (ISO) (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Causes irritation in respiratory passages, which is normally reversible and limited to the upper respiratory passages.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Repeated exposure may cause skin dryness or cracking

H- Aspiration hazard:

May be fatal if swallowed and enters airways.

Other information:

Not relevant

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
Hydrocarbons, C9, aromatics CAS: 128601-23-0 EC: 918-668-5	LD50 oral	>3492 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
deltamethrin (ISO) CAS: 52918-63-5 EC: 258-256-6	LD50 oral	87 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation dust	0,5 mg/L	Rat
2-methylpropan-1-ol CAS: 78-83-1 EC: 201-148-0	LD50 oral	3350 mg/kg	Rat
	LD50 dermal	2460 mg/kg	Rabbit
	LC50 inhalation vapour	24,6 mg/L (4 h)	Rat
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts CAS: 68953-96-8 EC: 273-234-6	LD50 oral		
	LD50 dermal	1300 mg/kg	Rat
	LC50 inhalation dust		

11.2 Information on other hazards:

Endocrine disrupting properties

Endocrine-disrupting properties: The product does not meet the criteria.

Other information

Not relevant

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Very toxic to aquatic life with long lasting effects.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
Hydrocarbons, C9, aromatics	LC50	>1 - 10 mg/L (96 h)		Fish
CAS: 128601-23-0	EC50	>1 - 10 mg/L (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 mg/L (72 h)		Algae
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	LC50	Not relevant		
CAS: 68953-96-8	EC50	Not relevant		
EC: 273-234-6	EC50	29 mg/L (96 h)	Selenastrum capricornutum	Algae
deltamethrin (ISO)	LC50	0,00025 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 52918-63-5	EC50	0,00012 mg/L (48 h)	Daphnia magna	Crustacean
EC: 258-256-6	EC50	Not relevant		

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
2-methylpropan-1-ol	LC50	2030 mg/L (96 h)	Carassius auratus	Fish
CAS: 78-83-1	EC50	1439 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-148-0	EC50	1250 mg/L (48 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	NOEC	0,23 mg/L	Oncorhynchus mykiss	Fish
CAS: 68953-96-8 EC: 273-234-6	NOEC	1,18 mg/L	Daphnia magna	Crustacean
deltamethrin (ISO)	NOEC	>0.0000001 - 0 mg/L		Fish
CAS: 52918-63-5 EC: 258-256-6	NOEC	>0.0000001 - 0 mg/L		Crustacean
2-methylpropan-1-ol	NOEC	Not relevant		
CAS: 78-83-1 EC: 201-148-0	NOEC	20 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	BOD5	Not relevant	Concentration	22 mg/L
CAS: 68953-96-8	COD	Not relevant	Period	28 days
EC: 273-234-6	BOD5/COD	Not relevant	% Biodegradable	3 %
2-methylpropan-1-ol	BOD5	0,4 g O2/g	Concentration	100 mg/L
CAS: 78-83-1	COD	2,41 g O2/g	Period	14 days
EC: 201-148-0	BOD5/COD	0,17	% Biodegradable	90 %
Acetic acid	BOD5	Not relevant	Concentration	3 mg/L
CAS: 64-19-7	COD	Not relevant	Period	20 days
EC: 200-580-7	BOD5/COD	Not relevant	% Biodegradable	96 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	BCF	3
CAS: 68953-96-8	Pow Log	4.6
EC: 273-234-6	Potential	Low
deltamethrin (ISO)	BCF	817
CAS: 52918-63-5	Pow Log	6.2
EC: 258-256-6	Potential	High
2-methylpropan-1-ol	BCF	3
CAS: 78-83-1	Pow Log	0.76
EC: 201-148-0	Potential	Low
Acetic acid	BCF	3
CAS: 64-19-7	Pow Log	-0.17
EC: 200-580-7	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Koc	Not relevant	Henry	Not relevant
CAS: 68953-96-8	Conclusion	Not relevant	Dry soil	Not relevant
EC: 273-234-6	Surface tension	3,1E-2 N/m (20 ºC)	Moist soil	Not relevant
deltamethrin (ISO)	Koc	46000	Henry	5,066E-1 Pa·m³/mol
CAS: 52918-63-5	Conclusion	Immobile	Dry soil	Not relevant
EC: 258-256-6	Surface tension	Not relevant	Moist soil	Yes

- CONTINUED ON NEXT PAGE -

SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
2-methylpropan-1-ol	Koc	Not relevant	Henry	Not relevant
CAS: 78-83-1	Conclusion	Not relevant	Dry soil	Not relevant
EC: 201-148-0	Surface tension	2,378E-2 N/m (25 ºC)	Moist soil	Not relevant
Acetic acid	Koc	1.15	Henry	2,1E-1 Pa·m³/mol
CAS: 64-19-7	Conclusion	Very High	Dry soil	Yes
EC: 200-580-7	Surface tension	2,699E-2 N/m (25 ºC)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties:

Endocrine-disrupting properties: The product does not meet the criteria.

12.7 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
02 01 08*	agrochemical waste containing hazardous substances	Hazardous

Type of waste (Regulation (EU) No 1357/2014):

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP14 Ecotoxic, HP6 Acute Toxicity, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2025 and RID 2025:

14.1	**UN number or ID number:**	UN1993
14.2	**UN proper shipping name:**	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics; 2-methylpropan-1-ol)
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Special regulations:	274, 601
	Tunnel restriction code:	D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

- CONTINUED ON NEXT PAGE -

SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by sea:

With regard to IMDG 42-24:

14.1	**UN number or ID number:**	UN2903
14.2	**UN proper shipping name:**	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (deltamethrin (ISO); Hydrocarbons, C9, aromatics)
14.3	**Transport hazard class(es):**	6.1
	Labels:	6.1, 3
14.4	**Packing group:**	III
14.5	**Marine pollutant:**	Yes
14.6	**Special precautions for user**	
	Special regulations:	223, 274, 61
	EmS Codes:	F-E, S-D
	Physico-Chemical properties:	see section 9
	Limited quantities:	5 L
	Segregation group:	Not relevant
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2026:

14.1	**UN number or ID number:**	UN2903
14.2	**UN proper shipping name:**	PESTICIDE, LIQUID, TOXIC, FLAMMABLE, N.O.S. (deltamethrin (ISO); Hydrocarbons, C9, aromatics)
14.3	**Transport hazard class(es):**	6.1
	Labels:	6.1, 3
14.4	**Packing group:**	III
14.5	**Environmental hazards:**	Yes
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Maritime transport in bulk according to IMO instruments:**	Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Composition of the active ingredients (Regulation (EU) No 528/2012): deltamethrin (ISO) (5%)

- Article 95, REGULATION (EU) No 528/2012: *deltamethrin (ISO) (52918-63-5) - PT: (18)*
- Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Not relevant
- Regulation (EU) 2019/1021 on persistent organic pollutants: Not relevant
- Regulation (EU) No 2024/590, about substances that deplete the ozone layer: Not relevant
- REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Not relevant
- Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Not relevant

Seveso III:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000,000	50000,000
E1	ENVIRONMENTAL HAZARDS	100,000	200,000

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ….):

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

- CONTINUED ON NEXT PAGE -

SECTION 15: REGULATORY INFORMATION (continued)

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The product could be affected by sectorial legislation

Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

The SDS shall be supplied in an official language of the country where the product is placed on the market. This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878).

Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:

Not relevant

Texts of the legislative phrases mentioned in section 2:

H226: Flammable liquid and vapour.
H332: Harmful if inhaled.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H335: May cause respiratory irritation.
H304: May be fatal if swallowed and enters airways.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

CLP Regulation (EC) No 1272/2008:

Acute Tox. 3: H301+H331 - Toxic if swallowed or if inhaled.
Acute Tox. 4: H312 - Harmful in contact with skin.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.
Eye Dam. 1: H318 - Causes serious eye damage.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
STOT SE 3: H335 - May cause respiratory irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Flam. Liq. 3: Calculation method (2.6.4.3)
Acute Tox. 4: Calculation method
Acute Tox. 4: Calculation method
Eye Dam. 1: Calculation method
Skin Sens. 1: Calculation method
STOT SE 3: Calculation method
Asp. Tox. 1: Calculation method
Aquatic Acute 1: Calculation method
Aquatic Chronic 1: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

- END OF SAFETY DATA SHEET -