

STORM PRO 5



SAFETY DATA SHEET  
(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

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

1.1. Product identifier

Product name : STORM PRO 5

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

Recommended use(s): Disinfectant - biocidal use.  
Use(s) advised against: Do not use for purposes other than those stated in "Recommended use(s)"

Use descriptor system (REACH) :

Not available.

1.3. Details of the supplier of the safety data sheet

Registered company name : LODI UK  
Address : Building 69, Pensnett Trading Estate, Kingswinford.DY6 FD.West Midlands.UNITED KINGDOM.  
Telephone : 01 384 40 42 42  
fds@lodi.fr  
<https://www.lodi-group.fr/>

1.4. Emergency telephone number :

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24- hour service)  
General public:  
England - Dial 111 to reach NHS 111 (24- hour service)  
Scotland - Dial 112 to reach NHS 24 (24- hour service)  
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24- hour service)

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Skin irritation, Category 2 (Skin Irrit. 2, H315).  
Serious eye damage, Category 1 (Eye Dam. 1, H318).  
Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).  
Hazardous to the aquatic environment - Chronic hazard, Category 2 (Aquatic Chronic 2, H411).  
This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

Biocidal mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS09



GHS05

Signal Word :

DANGER

Product identifiers :

EC 270-325-2

QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES  
ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2

Hazard statements :

H315

Causes skin irritation.

H318

Causes serious eye damage.

H410

Very toxic to aquatic life with long lasting effects.

Precautionary statements - Prevention :

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

Precautionary statements - Response :

P301 + P330 + P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P310

Immediately call a POISON CENTER/doctor/...

## STORM PRO 5

P391 Collect spillage.  
Precautionary statements - Disposal :  
P501 Dispose of contents/container according to the regulation.

### 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>  
The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.  
The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### Composition :

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 68424_85_1 CAS: 68424-85-1 EC: 270-325-2  QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2	GHS07, GHS05, GHS09 Dgr Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400  M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 1		2.5 $\leq$ x % < 10

#### Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 68424_85_1 CAS: 68424-85-1 EC: 270-325-2  QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2		oral: ATE = 795 mg/kg BW

#### Information on ingredients :

(Full text of H-phrases: see section 16)

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. description of first aid measures

#### In the event of exposure by inhalation :

Remove casualty to fresh air and keep warm and at rest. Seek medical attention if difficulties appear and persist.

#### In the event of splashes or contact with eyes :

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If you wear contact lenses: rinse immediately with lukewarm water, then remove the contact lenses if there are no contraindications and continue rinsing for 10 minutes.

#### In the event of splashes or contact with skin :

In case of skin exposure, clean skin with water then with soap. Seek medical attention if irritation or discomfort develops

Remove contaminated clothing immediately and dispose off safely.

#### In the event of swallowing :

Rinse mouth with water. Get medical attention (show the label if possible). Induce vomiting as directed by medical personnel.

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

No data available.

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

#### Specific and immediate treatment :

Treat symptomatically.

**STORM PRO 5**

**Information for the doctor :**

Treat symptomatically.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media**

**Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

Adapt extinguishing measures to the surrounding environment.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For non first aid worker**

Avoid contact with skin and eyes.

Avoid further spillage or leaking, if safe to do so.

Do not breathe vapours.

Warn and evacuate unnecessary and unprotected personnel away.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Hazardous product for environment, in case of important spill or in case of lake, rivers or drains contamination, inform the responsible authorities, in accordance with local legislation.

**6.3. Methods and material for containment and cleaning up**

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

See sections 7, 8 and 13.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

**Fire prevention :**

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Packages which have been opened must be reclosed carefully and stored in an upright position.

**STORM PRO 5**

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.  
Contaminated clothing should be changed before entering eating areas.

**7.2. Conditions for safe storage, including any incompatibilities**

No data available.

**Storage**

Keep out of reach of children.  
Keep the container tightly closed in a dry, well-ventilated place.

**Packaging**

Always keep in packaging made of an identical material to the original.  
Recommended types of packaging :  
Original packaging.  
Suitable packaging materials :  
Original packaging.  
Unsuitable packaging materials :  
Different than the original packaging.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No data available.

**8.2. Exposure controls**

**Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)
- Butyl Rubber (Isobutylene-isoprene copolymer)

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

No respiratory protective equipment is required under normal conditions of intended use with adequate ventilation.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

**Physical state**

Physical state : Fluid liquid.

**Colour**

Colorless.

**STORM PRO 5**

**Odour**

Odour threshold : Not stated.  
Slight.

**Melting point**

Melting point/melting range : Not relevant.

**Freezing point**

Freezing point / Freezing range : Not stated.

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flammability**

Flammability (solid, gas) : Not stated.

**Lower and upper explosion limit**

Explosive properties, lower explosivity limit (%) : Not stated.  
Explosive properties, upper explosivity limit (%) : Not stated.

**Flash point**

Flash Point Interval : FP > 100°C.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH (aqueous solution) : Not stated.  
pH : 7.80 .  
Neutral.

**Kinematic viscosity**

Viscosity : Not stated.

**Solubility**

Water solubility : Dilutable.  
Fat solubility : Not stated.

**Partition coefficient n-octanol/water (log value)**

Partition coefficient: n-octanol/water : Not stated.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**

Density : = 1

**Relative vapour density**

Vapour density : Not stated.

**9.2. Other information**

No data available.

**9.2.1. Information with regard to physical hazard classes**

No data available.

**9.2.2. Other safety characteristics**

No data available.

**SECTION 10 : STABILITY AND REACTIVITY**

**10.1. Reactivity**

The product is non-reactive under normal condition of use.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4. Conditions to avoid**

None under recommended storage and handling conditions (see section 7).

**10.5. Incompatible materials**

None.

**STORM PRO 5**

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11 : TOXICOLOGICAL INFORMATION**

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

**11.1.1. Substances**

**a) Acute toxicity :**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2) :

Oral route : LD50 = 795 mg/kg body weight  
Species : Rat

Dermal route : LD50 > 5000 mg/kg

**b) Skin corrosion/skin irritation :**

No data available.

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2. Mixture**

**11.1.2.1 Information on hazard classes**

**a) Acute toxicity :**

No data available.

**b) Skin corrosion/skin irritation :**

Corrosivity : No observed effect.  
OECD Guideline 431 (In Vitro Skin Corrosion: Human Skin Model Test)

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**STORM PRO 5**

**j) Aspiration hazard :**

No data available.

**11.1.2.2 Other information**

**11.2. Information on other hazards**

**Endocrine disrupting properties**

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

**SECTION 12 : ECOLOGICAL INFORMATION**

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

**12.1. Toxicity**

**12.1.1. Substances**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2):

Fish toxicity :

LC50 = 0.85 mg/l

Species : Oncorhynchus mykiss

Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

NOEC = 0.0322 mg/l

Factor M = 1

Species : Pimephales promelas

Duration of exposure : 28 days

Crustacean toxicity :

EC50 = 0.016 mg/l

Species : Daphnia magna

Duration of exposure : 48 h

NOEC = 0.025 mg/l

Factor M = 1

Species : Daphnia magna

Duration of exposure : 21 days

OECD Guideline 211 (Daphnia magna Reproduction Test)

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2):

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

**12.3. Bioaccumulative potential**

**12.3.1. Substances**

QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2):

Octanol/water partition coefficient :

log K<sub>ow</sub> = 2.88

Other guideline

Bioaccumulation :

BCF = 79

Species : Others

OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

## STORM PRO 5

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.  
Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

### Soiled packaging :

Empty container completely. Keep label(s) on container.  
Give to a certified disposal contractor.

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

### 14.1. UN number or ID number

3082

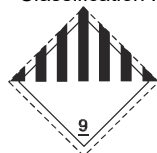
### 14.2. UN proper shipping name

UN3082=ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2)

### 14.3. Transport hazard class(es)

- Classification :



9

### 14.4. Packing group

III

### 14.5. Environmental hazards

- Environmentally hazardous material :



### 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	9	M6	III	9	90	5 L	274 335 375 601	E1	3	-

Not subject to this regulation if Q ≤ 5 l / 5 kg (ADR 3.3.1 - DS 375)

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	9	-	III	5 L	F-A. S-F	274 335 969	E1	Category A	-

Not subject to this regulation if Q ≤ 5 l / 5 kg (IMDG 3.3.1 - 2.10.2.7)

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	9	-	III	964	450 L	964	450 L	A97 A158 A197 A215	E1
	9	-	III	Y964	30 kg G	-	-	A97 A158 A197 A215	E1

Not subject to this regulation if Q ≤ 5 l / 5 kg (IATA 4.4.4 - DS A197)

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):( QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES (ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2)

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15 : REGULATORY INFORMATION

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

#### Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2020/1182 (ATP15)

#### Container information:

No data available.

#### Particular provisions :



**STORM PRO 5**

No data available.

**Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):**

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):  
<https://echa.europa.eu/substances-restricted-under-reach>.

**Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):**

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:  
<https://echa.europa.eu/fr/authorisation-list>.

**Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :**

The mixture does not contain any substance posing a risk to the ozone layer.

**Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):**

The mixture does not contain a persistent organic pollutant.

**PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):**

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

**Explosives precursors :**

The mixture does not contain any substance subject to the Poisons act 1972 and control of explosives precursors and poisons regulations Regulation of 2023.

**Labelling for biocidal products (Regulation (UE) n° 528/2012) :**

Name	CAS	%	Product-type
QUATERNARY AMMONIUM COMPOUNDS, BENZYL, C12-16 ALKYL DIMETHYL, CHLORIDES ALTERNATIVE CAS NUMBERS: 85409-22-9, 63449-41-2	68424-85-1	49.90 g/kg	02 10

Product-type 2 : Disinfectants and algacides not intended for direct application to humans or animals.

Product-type 10 : Construction material preservatives.

**15.2. Chemical safety assessment**

No data available.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Abbreviations and acronyms :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

ADR : European agreement concerning the international carriage of dangerous goods by Road.

GHS05 : Corrosion

GHS09 : Environment

IATA : International Air Transport Association.

IMDG : International Maritime Dangerous Goods.

ICAO : International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.

POP: Persistent Organic Pollutant.

RID : Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern.

vPvB : Very persistent, very bioaccumulable.

WGK : Wassergefährdungsklasse (Water Hazard Class).