

PX-Ornikill

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
with its amendment Regulation (EU) 2015/830



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

1.1 Product identifier

PX-Ornikill

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

Relevant identified uses: Surface disinfectant professional use.

Uses advised against: Not to be used undiluted.

1.3. Details of the supplier of the safety data sheet

Address: Killgerm Chemicals Ltd, Wakefield Road, Ossett, WF5 9AJ

Tel: +44 (0)1924 268 450

Fax: +44 (0)1924 265 033

Email: technical@killgerm.com

1.4. Emergency telephone number

Medical professionals should use National Poisons Information Service Tel: 0870 600 6266.

Non-medical professionals should seek information by contacting NHS by dialling 111.

Killgerm Chemicals Ltd Tel:01924 268452 (Office hours) Emergency Line 01865407333

SECTION 2: Hazards identification

2.1. Classification of the mixture according to Regulation (EC) No. 1272/2008 [CLP]

Skin Irritant Cat 2.

H315: Causes skin irritation.

Aquatic chronic Cat 2.

H411: Toxic to aquatic life with long-lasting effects.

Eye Damage Cat 1.

H318: Causes serious eye damage.

Aquatic Acute Cat 1.

H400: very toxic to aquatic life.

2.2. Label elements



GHS05



GHS09

Signal Word: Danger

Hazard statements:

H315 – Causes skin irritation.

H318 – Causes serious eye damage.

H410 – Very toxic to aquatic life with long lasting effects

Precautionary statements:

P280 – Wear protective gloves/protective clothing/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 or doctor/physician.

P264 – Wash contaminated skin thoroughly after handling.

P302+P352 – IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with national regulations

2.3. Other hazards

PBT: this material does not contain any substance identified as PBT or vPvB

Contains: Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)),
Didecyldimethylammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine, Limonene

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous Components in Product

Ingredient Name	Concentration	Classification	H Phrases
Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16)) CAS No. 68424-85-1 EC No:939-350-2	<2%	Acute Tox. 4 Eye Irrit. 2 Skin Corr. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H314 H318 H400 H410
N-(3-aminopropyl)-N-dodecylpropane-1,3- diamine. CAS No. 2372-82-9 EC No: 219-145-8	<2%	Acute Tox. Cat. 3 (Oral) Skin Corr. Cat. 1B Eye Dam. Cat 1 STOT RE. Cat. 2 Aquatic Acute Cat. 1 Aquatic Chronic Cat. 1	H301 H314 H318 H373 H400 H410
Didecylmethylammonium chloride CAS No. 7173-51-5 EC No: 230-525-2	<2%	Acute Tox. 4 Skin Corr. 1B Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 2	H302 H314 H318 H400 H411
Limonene CAS No. 5989-27-5 EC No: 227-813-5	0.01 – 0.1%	Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H226 H315 H317 H400 H410

See section 16 for full text of H phrases and hazard classification of ingredients.

SECTION 4: First aid measures

4.1. Description of first aid measures

General: If during or after use/exposure you begin to feel unwell, seek medical attention bringing a copy of the product label/the SDS.

Eye contact: If in eyes: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical advice/attention and call a POISON CENTRE.

Skin contact: If on skin: wash area with plenty of soap and water. Immediately take off contaminated clothing and wash it before reuse. If skin irritation occurs get medical attention

Ingestion: If Swallowed: Rinse mouth. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Seek medical advice/attention if you feel unwell.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Not expected to present a significant inhalation hazard under anticipate conditions of normal use

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

Symptoms/injuries after inhalation: May cause respiratory irritation. May cause coughing.

Symptoms/injuries after Skin contact: Burning sensation, chemical burns, allergic reaction, redness, and irritation.

Symptoms/injuries after eye contact: Causes serious eye damage/irritation.

Symptoms/injuries after ingestion: May cause gastro-intestinal disturbances.

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

Treat symptomatically.

When in doubt or symptoms persist, seek medical attention.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents: Use dry powder, alcohol resistant foam, carbon dioxide extinguishing agents or dry agents.

5.2. Special hazards arising from the substance or mixture

This product is non-flammable. No hazard expected under normal conditions of use.

May produce toxic fumes if involved in a fire, corrosive vapours

5.3. Advice for firefighters

Wear self-contained breathing apparatus and appropriate protective equipment.

Fight fire with normal precautions from a reasonable distance.

NOT flammable. In case of fire use extinguishing media appropriate to surrounding conditions.

Fire residues and contaminated extinguishing media should be disposed according to current regulation. Do not allow extinguishing media to enter sewers, ground water or water courses.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with released product. Protect eyes and skin. Use recommended personal protection measures (Section 8). Ventilate closed areas.

6.2. Environmental precautions

Do not allow the product to enter sewers, ground, and surface waters. Do not rinse product to the sewers. In case of water contamination - inform appropriate authorities immediately.

6.3. Methods and material for containment and cleaning up

- In case of unsealed container or spillage secure source of contamination and move product to empty container.
- Spillages should be treated by appropriate sorbent (sand, sawdust, diatomaceous earth, vermiculite, universal absorbent), collected to closed container, labelled and safely disposed.
- Area of spillage should be cleaned with water.
- Cleaning up should be conducted under appropriate ventilation.

6.4. Reference to other sections

See section 8 for protective clothing – See section 7 for safe handling – See section 13 for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Read label before using product and use only as directed.
- Avoid direct contact with mouth, skin and eyes.
- Do not eat, drink, or smoke while in use.
- Wash hands, face, and any exposed skin after use and before eating or drinking.
- Wear eye/ face/hand protection.

7.2. Conditions for safe storage, including any incompatibilities

- Store in original container, tightly closed in a cool, dry place.
- Store away from children, food, beverage, and animal feed.
- Store away from Oxidizing agents. Strong acids/bases
- Store in a well-ventilated location. Protect from heat and frost.

Incompatibility with other materials: Oxidising substances, Anionics, Peroxides, Acids.

7.3. Specific end use(s)

See section 1.2

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Alkyl (C12-16) dimethylbenzyl ammonium chloride (ADBAC/BKC (C12-C16))

DNEL (Consumer; dermal, long term systemic effects): 3.4 mg/kg bw/day

DNEL (Consumer; inhalational, long term systemic effects): 1.64 mg/m³

DNEL (Consumer; oral, long term systemic effects): 3.4 mg/kg bw/day

DNEL (Industry; dermal, long term systemic effects): 5.7 mg/kg bw/day

DNEL (Industry; inhalational, long term systemic effects): 3.96 mg/m³

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine

DNEL (Industry; dermal, long term systemic effects): 0.91 mg/kg

DNEL (Industry; inhalational, long term systemic effects): 2.35 mg/m³

DNEL (Consumer; inhalational, long term systemic effects): 0.7 mg/m³

DNEL (Consumer; dermal, long term systemic effects): 0.54 mg/kg bw/day

DNEL (Consumer; oral, long term systemic effects): 0.2 mg/kg

8.2. Exposure controls

Where exposure may occur engineering controls should be employed. A risk assessment should be carried out and the following PPE may be appropriate /required.

PPE	Item in use	Spillage
Respirators	Not needed under normal use and adequate ventilation.	Not needed under normal use and adequate ventilation.
Gloves	Protective Gloves to EN 374 Nitrile or PVC. Glove thickness 0.4mm, Break through time 30mins.	Protective Gloves to EN 374 Nitrile or PVC. Glove thickness 0.4mm, Break through time 30mins.
Overall	Chemical-resistant clothing and boots in case direct dermal exposure and/or splashes occur.	Chemical-resistant clothing and boots in case direct dermal exposure and/or splashes occur.
Goggles / Face shield	Safety glasses to EN 166	Safety glasses to EN 166

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Blue liquid.
Odour:	Eucalyptus Menthol.
Odour threshold:	No data
pH:	10.50 – 11.40
Melting point/freezing point:	Not available
Initial boiling point/boiling range:	93 °C at 20 mm/Hg
Flash point:	>93 °C
Evaporation rate:	As water.
Flammability:	Not flammable
Upper/lower flammability or explosive limits:	Not applicable.
Vapor pressure:	Not applicable.
Vapor density:	Not applicable.
Relative density:	1.010 – 1.050 g/cm ³
Solubility(ies):	Water: Miscible.
Partition coefficient n-octanol/water (log Kow):	No available data.
Auto-ignition temperature:	No available data.
Decomposition temperature:	No available data.

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Viscosity: Not applicable.
Explosive properties: No data available.
Oxidising properties: No data available.

9.2 Other Information

No further relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used for its intended purpose.

10.2. Chemical stability

Chemically stable under normal conditions. Product has a three-year shelf life from date of manufacture.

10.3. Possibility of hazardous reactions

Stable under normal ambient conditions and when used as recommended

10.4. Conditions to avoid

Keep away from heat

10.5. Incompatible materials

Oxidising substances, Anionics, Hypochlorite, Aldehydes

10.6. Hazardous decomposition products

No decomposition if stored normally

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Classification of the product was conducted by calculation method according to regulation 1272/2008, based on the content of hazardous ingredients:

a) acute toxicity:

Estimated LD50 (oral) (ATE): 2780.404 mg/kg
Estimated LD50 (dermal) (ATE): >4000 mg/kg
Estimated LD50 (inhalational) (ATE): >20 mg/l/4hr (gas/vapour)

b) irritation/corrosion: Causes skin irritation and eye damage..

d) sensitisation: May cause allergic reaction in susceptible people.

e) repeated dose toxicity: Based on data available classification criteria are not met.

f) carcinogenicity: Based on data available classification criteria are not met.

g) mutagenicity: Based on data available classification criteria are not met.

h) toxicity for reproduction: Based on data available classification criteria are not met.

i) aspiration: No information.

i) STOT – single exposure: no experimental data available.

j) STOT – repeated exposure: no experimental data available.

11.2. Other Data

See section 2.3

SECTION 12: Ecological information

12.1. Toxicity

Harmful to the environment and fish. Do not contaminate ponds, waterways or ditches with the chemical or used container.

12.2. Persistence and degradability

- Expected to be readily biodegradable
- No experimental data available

12.3. Bioaccumulative potential

Low bioaccumulation potential

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12.4. Mobility in soil

- Completely soluble in water
- miscible with water

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB

12.6. Other adverse effects

Toxic to sewage works organisms.

Product does not contain any substances known to be endocrine disruptors.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal of the product, empty containers and contaminated packaging must be made in accordance with the local law.

Dispose of unused product in the original container as hazardous waste.

Empty containers and contaminated PPE should be considered hazardous and disposed of appropriately.

The product should not be allowed to enter drains, water courses or soil.

Suggested waste code 20 01 19.

SECTION 14: Transport information

14.1. UN number

UN 3082

14.2. UN proper shipping name

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



14.3. Transport hazard class(es).

Hazard Class 9



14.4. Packing group

III

14.5. Environmental hazards

- Marine Pollutant
- ENVIRONMENTALLY HAZARDOUS

14.6. Special precautions for user

Contains: Quaternary ammonium compounds, benzyl-c12-14 (even numbered)-alkyldimethyl, chlorides

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

Not applicable.

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SECTION 15: Regulatory information

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

Contains no REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substance.

This SDS is provided in compliance with Regulation (EC) No 1272/2008, 1907/2006, 2015/830 and 2020/878

Water Hazard Class (Company): 1

Control of Substances Hazardous to Health Regulations 2002 (as amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information

Use only in accordance with label instructions.

Operatives using this product should be trained in its use.

The information in this data sheet should be considered when undertaking a risk assessment under the COSHH regulations.

Ingredient classification data:

Acute Toxicity Cat.3 (Oral)

H301: Toxic if swallowed.

Acute Toxicity Cat.4 (Oral)

H302: Harmful if swallowed.

Acute Toxicity Cat.4 (Dermal)

H312: Harmful in contact with skin

Skin corrosion Cat. 1B

H314: Causes severe skin burns and eye damage.

Serious eye damage Cat.1

H318: Causes serious eye damage.

Single Target Organ Toxicity Repeat Exposure Cat. 2

H373: May cause damage to organs through prolonged or repeat exposure.

Aquatic toxicity acute Cat.1

H400: Very toxic to aquatic life.

Aquatic toxicity chronic Cat.1

H410: Very toxic to aquatic life with long lasting effects.

Aquatic toxicity chronic Cat.3

H412: Harmful to aquatic life with long lasting effects.

Issue number (date)	Section amended
Issue.1 (August 2023)	First Issue

This safety data sheet does not constitute a COSHH assessment.

The information contained within this data sheet is strictly for general guidance only and should not be relied upon over and above this. This data sheet is intended to provide general health and safety guidance on the handling, storage, and transportation of the preparation. The information provided in this data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted by Killgerm Chemicals Limited for any loss, injury or damage arising from any failure to comply with the information and advice contained within this data sheet and/or failure to comply with the manufacturer's guidelines, product label data and any associated technical usage literature.