

Material Safety Data Sheet

according to Regulation (EU) 2020/878

Icepur Concentrate

Revision date: 23.10.2023/CH-eng

Previous version: 15.10.2020

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

1.1. Product identifier

Product name: Icepur Concentrate

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

Relevant identified uses: Disinfecting and cleaning concentrate

In the following areas: Private area and public health area disinfectants and other
public health area biocidal products

Food and feed area disinfectants

1.3. Details of the supplier of the safety data sheet

Company: IC PRODUCTS SA
Via Santa Maria 68A
6596 Gordola
Switzerland

Dept. responsible for information: Tel.: +41 91 743 67 61 Fax: +41 91 743 73 60

Email address: admin@icproducts.ch

1.4. Emergency telephone number

Emergency information: Tel.: +41 91 743 67 61 or call the Swiss
Toxicological Information Centre (STIZ145).

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008

Hazard categories and statements:

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Acute toxicity (oral), Category 4	H302: Harmful if swallowed.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling in accordance with Regulation (EC) No. 1272/2008

Hazard pictograms:



GHS09

Signal word: Danger

Hazard statements

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

Precautionary statements

- | | |
|------------|--|
| Prevention | P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. |
| Response | P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
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. |

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2.3. Other hazards

According to Regulation (EU) 2020/878 this substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Requirements in the food industry:

- After the prescribed exposure time rinse the disinfected surfaces, equipment, tools, and containers several times with drinking water.

3. Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Disinfecting concentrate with **6,3 % concentration of the following active ingredient.**

Active ingredients

Name	Product Identifier	Classification at a concentration of ca. 70 %
N,N-Didecyl-N-methylpoly(oxethyl) ammonium propionate	(CAS-no.) 94667-33-1 (EC-no.) 619-057-3	Acute Tox. (Oral); 4; H302 Skin Corr.; 1B; H314 Aquatic Acute; 1; H400 Aquatic Chronic; 1; H410

For the full text of the H-Statements see Section 16.

4. First aid measures

4.1. Description of first aid measures

General advice: No special measures required.

Inhalation: Move to fresh air. Consult doctor in case of complaints.

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- Skin contact:** After contact with skin, wash immediately with soap and water. Take off contaminated clothing and shoes immediately. Medical treatment necessary in case of skin corrosion.
- Eye contact:** Rinse immediately with plenty of lukewarm water, also under the eyelids, for at least 15 minutes. Call a physician immediately. Remove contact lenses. Rinse eye wide open. Continue rinsing until medical help arrives. Could cause eye damage.
- Ingestion:** Rinse mouth and drink plenty of water. Never induce vomiting or give anything by mouth to an unconscious person. Seek medical treatment.

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

- Symptoms:** Could cause eye damage and skin irritation.

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

- Treatment:** Treat symptomatically.

5. Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media:** Water spray, dry chemical, foam.
- Unsuitable extinguishing media:** High volume water jet.

5.2. Special hazards arising from the substance or mixture

- Special firefighting hazards:** In the event of fire, toxic gas could form. Do not allow run-off from firefighting to enter drains or water courses.

5.3. Advice for firefighters

- Special protective equipment for :
firefighters** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

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Additional information:

Use water spray to cool unopened containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Personal precautions: Use personal protective equipment.
Use respirator when performing operations involving potential exposure to vapour of the product.

6.2. Environmental precautions

Environmental precautions: Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.

6.3. Methods and materials for containment and clean-up

Cleaning procedure: Contain spillage, and then collect with non-combustible absorbent material, (e.g., sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

6.4. Reference to other sections

For personal protection see section 8.
For disposal considerations see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Avoid formation of aerosols. Do not breathe vapour/dust.
Avoid contact with skin and eyes.
Smoking, eating, and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.

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To avoid spills during handling keep bottle on a metal tray.
 Dispose of rinse water in accordance with local and national regulations.

Advice on protection against : Normal measures for preventive fire protection.
 fire and explosion

Hygiene measures: Avoid contact with skin, eyes, and clothing. When using do not eat or drink. When using do not smoke.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage : Keep containers tightly closed. Keep in a well-ventilated place.
 areas and containers Containers which are opened must be carefully re-closed and kept upright to prevent leakage. To maintain product quality, do not store in heat or direct sunlight. To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Other data: No decomposition if stored and applied as directed.

7.3. Specific end use(s)

Specific use(s): Disinfecting and cleaning concentrate.

8. Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits of **active ingredient at a 70% concentration**

Derived No Effect Level (DNEL) according to Regulation (EU) 2020/878:

Name	End use	Exposure routes	Value
N,N-Didecyl-N-methyl-poly(oxyethyl) ammonium propionate	Industrial use	Inhalation	0,5 mg/m ³
	Industrial use	Skin contact	0,7 mg/kg
	Consumer use	Inhalation	0,12 mg/m ³
	Consumer use	Skin contact	0,35 mg/kg
	Consumer use	Ingestion	0,35 mg/kg

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Predicted No Effect Concentration (PNEC) according to Regulation (EU) 2020/878:

Substance name	Environmental Compartment	Value
N,N-Didecyl-N-methyl-poly(oxyethyl) ammonium propionate	Fresh water	0,001 mg/l
	Sewage treatment plant	0,118 mg/l
	Fresh water sediment	5,3 mg/kg
	Soil	2,83 mg/kg

8.2. Exposure controls

Personal protective equipment (as defined in Regulation (EU) 2020/878)

Appropriate engineering controls:	Ensure good ventilation of the workplace.
Individual protection measures such as personal protective equipment	Wear recommended personal protective equipment. Gloves, protective suit, safety glasses. In case of insufficient ventilation, wear breathing apparatus.
Eye/face protection:	Firmly fitting safety glasses. Wear face-shield and protective suit for abnormal processing problems.
Hand protection	
Material:	Nitrile rubber
Remarks:	Wear protective gloves. Break through time: > 480 min The selected protective gloves have to satisfy the specifications of Regulation (EU) 2020/878 and the standard EN 374 derived from it.
Skin and body protection:	Choose body protection according to the amount and concentration of the substance at the workplace. Impervious clothing.
Respiratory protection:	In the case of vapour formation use a respirator with an approved filter. Respirator with ABEK filter. Respirator with a vapour filter (EN 141).
Environmental exposure controls:	Do not pour product down the drain.

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9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	liquid, light yellow
Odour:	aromatic
Odour threshold:	no data available
pH:	5,5 – 7,0 (20 °C); concentration of 63 mg/g
Melting point:	not applicable
Freezing point:	approx. -50 °C (OECD 102)
Boiling point/range:	approx. 180 °C (OECD 103)
Flash point:	134 °C (Regulation (EC) No. 440/2008, Annex, A.9, Pensky-Martens closed cup)
Evaporation rate:	no data available
Flammability (solid, gas):	no data available
Upper/lower explosive limits:	no data available
Vapour pressure:	0,0000018 Pa (20 °C, OECD 104)
Relative vapour density:	no data available
Relative density:	0,9756
Density:	0,9756 g/cm ³ (20 °C, OECD 109)
Solubility:	Water: > 100 g/l completely miscible (20 °C) Organic solvent: > 250 g/l (ca. 20 °C); > 250 g/l (ca. 20 °C, n-octanol)
Partition coefficient:	n-octanol/water: no data available
Auto-ignition temperature:	264 °C

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Decomposition temperature: no data available

Viscosity, dynamic: approx. 3000 mPa.s (20 °C, OECD 114)

Viscosity, kinematic: approx. 1800 mm²/s (20 °C, OECD 114)

Explosive properties: no data available

Oxidising properties: no data available

9.2. Other information

No data available.

10. Stability and reactivity

10.1. Reactivity

Stable under normal use, storage, and transportation conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions known under normal usage conditions.

10.4. Conditions to avoid

Heat and direct sunlight.

10.5. Incompatible materials

Strong acids, strong bases, and oxidizing agents.

10.6. Hazardous decomposition products

No hazardous decomposition products if used as directed.

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11. Toxicological information

11.1. Information on toxicological effects

The following toxicological data refer to the mixture

Primary irritant effect

Skin irritation: Can cause irritation of the skin.

Eye irritation: Can cause irritation of the eyes.

Sensitization: No sensitizing effect known.

Additional toxicological information:

In accordance with the calculation method undertaken by the EU Preparations Directive (1272/2008/EC), this product is associated with the following risks: Danger.

The product is a preparation for which there are no experimentally determined toxicity data.

The following toxicological data refer to the active ingredient at 70% concentration

Acute toxicity

Acute oral toxicity: LD50 (rat): 1157 mg/kg (OECD 401)

Acute inhalation toxicity: no data available

Acute dermal toxicity: no data available

Skin corrosion/irritation: causes irritation of the skin

Serious eye damage/irritation: causes severe eye irritation

Respiratory/skin sensitization: not classified (based on available data, the classification criteria are not met)

Germ cell mutagenicity: not classified (based on available data, the classification criteria are not met)

Carcinogenicity: not classified (based on available data, the classification criteria are not met)

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Reproductive toxicity:	not classified (based on available data, the classification criteria are not met)
Specific target organ toxicity : (STOT) – single exposure	not classified (based on available data, the classification criteria are not met)
STOT – repeated exposure:	not classified (based on available data, the classification criteria are not met)
Repeated dose toxicity:	NOAEL (oral, rat, 90 days): 391 mg/kg, dietary, (OECD 408)
Aspiration toxicity:	not classified (based on available data, the classification criteria are not met)

12. Ecological information

The following ecotoxicological data refer to the **active ingredient at 70% concentration**

12.1. Toxicity

Ecology – general:	Very toxic to aquatic life with long lasting effect.
Short-term (acute) aquatic hazard:	Very toxic to aquatic life.
Long-term (chronic) aquatic hazard:	Very toxic to aquatic life with long lasting effect.

LC50 fish 1	0,89 mg/l (96h, Cyprinus carpio, OECD 203)
LC50 fish 2	0,52 mg/l (96h, Lepomis macrochirus)
EC50 Daphnia 1	0,1 mg/l (48h, Daphnia magna, OECD 202)
ErC50 (algae)	0,34 mg/l (72h, Scenedesmus subspicatus)
NOEC chronic crustacean	0,25 mg/l (21d, Daphnia magna, OECD 211)
NOEC chronic algae	0,044 mg/l (72h, Scenedesmus subspicatus)
Toxicity to microorganisms, EC50	16,8 mg/l (activated sludge, OECD 209)
Toxicity to soil dwelling organisms, LC50, earthworm	4390 mg/kg (14d, Eisenia fetida, OECD 207)
EbC50	0,21 mg/l (72h, Desmodesmus subspicatus, OECD 201)
NOEC	0,0634 mg/l (72h, Desmodesmus subspicatus, OECD 201)
M-factor (short-term (acute) aquatic hazard)	10
M-factor (long-term (chronic) aquatic hazard)	1

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12.2. Persistence and degradability

Biodegradability: 57 % (28d, Zahn-Wellens Test, OECD 302B, not rapidly degradable)
34 % (29d, Modified Sturm Test, OECD 301B, not readily biodegradable)

Stability in water: hydrolytically stable, degradation half-life: 360d (25 °C), OECD 111

12.3. Bioaccumulative potential

Bioaccumulation: no data available

12.4. Mobility in soil

Surface tension: 30,5 mN/m (OECD 115)

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

No additional information available.

13. Disposal considerations

13.1. Waste treatment methods

Product: Dispose of contents/container in accordance with local regulation.
Contact waste disposal services.
Do not dispose of waste into sewer.
The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging: Dispose of as unused product.
Do not re-use empty containers.

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Swiss waste code (VeVA): 07 07 99 - Waste from the manufacture, treatment, use and distribution of fine chemicals not otherwise listed.

14. Transport information

IATA/IMDG/ADR/RID/DOT/TDG

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Toxic to aquatic life with long lasting effects.

14.6. Special precautions for the user

None.

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

Not applicable.

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15. Regulatory information

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

This safety data sheet complies with the requirements of Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008.

This product does not contain any REACH candidate substance.

This product does not contain any substance listed in REACH Annex XIV.

This product does not contain any Substances of Very High Concern (SVHC) at a concentration of > 0,1 %.

National legislation

Switzerland

CH – Water contaminating Class (WGK) (SR 814.20):

2 (self-classification) hazardous to water. Classification for Switzerland: Class B – water contaminating in large quantity (GSchG, SR 814.20).

15.2. Chemical safety assessment

A chemical safety assessment was not carried out.

16. Other information

Full text of H-Statements

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.
H411	Toxic to aquatic life with long lasting effects.

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Full text of other abbreviations

Acute Tox.:	Acute toxicity
Aquatic Acute:	Short-term (acute) aquatic hazard
Aquatic Chronic:	Long-term (chronic) aquatic hazard
Eye Dam.:	Serious eye damage
Skin Corr.:	Skin corrosion

Revisions

Revision 01

15.10.2020 Section 2: edited to conform with Commission Regulation (EU) 2015/830 (previous version date: 01.01.2017) and the CLP requirements.
Section 3: active ingredient and its classification were updated to conform with the regulation.
Sections 8 and 9: updated with new available information.
Section 11: added toxicity information for active ingredient.
Section 12: added ecological information for active ingredient.
Section 15: updated to reflect new required information.
Section 16: added full text of H-Statements of active ingredient classification.

Revision 02

23.10.2023 Section 2: edited to conform with Commission Regulation (EU) 2020/878 and the CLP requirements.
Section 3: active ingredient and its classification were updated to conform with the regulation.
Section 15: updated to reflect new required information.

The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication, however they are no assurance of product properties and do not justify a contractual legal relationship. This version replaces all previous versions. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information cannot be transferred to other products. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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Department issuing data specification sheet:

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