

Safety data sheet in accordance with Regulation (EC) No 1907/2006

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

- 1.1. Product identifier**
Trade name: Ice Machine Cleaner
- 1.2. Relevant identified uses of the substance or mixture and uses advised against:**
Recommended and appropriate use of the mixture: Cleaning agent
- 1.3. Details of the supplier of the safety data sheet:**
Linum Europe
- 1.4. Emergency telephone number:**
Vergiftungs-Informations-Zentrale Freiburg [Poison Centre Freiburg], Tel. +49(0)761/19240

2. Hazards identification

- 2.1. Classification of the substance or mixture**
Classification in accordance with Regulation (EC) No 1272/2008 [CLP]
Skin Irrit. 2, H315; Eye Irrit. 2, H319
- 2.2. Label elements**
Labelling in accordance with Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms



Signal word: Warning

Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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.

P362 Take off contaminated clothing and wash before reuse.

- 2.3. Other hazards**

The product does not meet the criteria for classification as a PBT or vPvB substance.

3. Composition/information on ingredients

- 3.2. Mixtures**
Ingredients hazardous to health:
Phosphoric acid; EC no.: 231-633-2; CAS no.: 7664-38-2
REACH registration no.: 01-2119485924-24-xxxx
Content: <10%
Classification in accordance with Regulation (EC) no 1272/2008: Met. Corr., H290; Skin Corr. 1B, H314
N-Alkyl-N-benzyl-N,N-dimethylammonium chloride; CAS no.: 63449-41-2; EC no.: 264-151-6 Content: <1%



Classification in accordance with Regulation (EC) No 1272/2008: Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Aquatic Acute 1; H400

The hazard class and hazard category codes and the hazard statements relate only to the concentrated raw material phosphoric acid and N-Alkyl-N-benzyl-N,N-dimethylammonium chloride. See wording of the hazard statements in Section 16.

4. First aid measures

4.1. Description of first-aid measures

General advice

Remove victim to fresh air. If symptoms occur, seek medical advice.

After inhalation:

Remove victim to fresh air and keep warm and rested. Consult a doctor in the case of irritation of the respiratory system.

After contact with skin:

Wash dampened skin immediately with water.

After contact with eyes:

After contact with eyes, wash the eyes with lids open with water for sufficient time, then consult a specialist if necessary.

After swallowing:

Rinse mouth immediately and drink plenty of water. Do not induce vomiting. Medical help.

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

No further relevant information available.

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

No further relevant information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Foam (alcohol resistant), carbon dioxide, powder, spray mist (water).

Unsuitable extinguishing media for safety reasons: Water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in cases of surrounding fires: Phosphorus oxides

5.3. Advice for firefighters

Specific protective equipment for fire fighting: Respiratory protection, protective clothing.

Additional information: The product itself is not combustible. Fire fighting measures to be determined according to surrounding fires. Remove container from fire. Keep containers cool with water spray. Fire-fighting-water must not get into the sewage system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment.

6.2. Environmental precautions

The concentrated product must not enter the sewerage system/surface water/ground water.

6.3. Methods and material for containment and cleaning up

Suitable diluents: water.

Suitable neutralisation media: soda, hydrated lime, sodium hydroxide.

Suitable absorbent materials: organic absorbent material, sand, diatomaceous earth, soil.

Dilute smaller quantities with plenty of water and rinse away

6.4. Reference to other sections



Personal protection, see Section 8.

Advice concerning disposal, see Section 13.

7. Handling and storage

7.1. Precautions for safe handling

The customary precautionary measures are to be observed when handling chemicals. Avoid contact with skin, eyes and clothing. Do not inhale vapours and spray mist. Do not eat, drink, smoke or take snuff during work. Wash hands before breaks and at end of shift.

7.2. Conditions for safe storage, including any incompatibilities

The floor must be acid-resistant, impervious, seamless and non-absorbent. Keep container tightly closed. Protect from frost. Do not store with: alkalis.

7.3. Specific end use(s)

Cleaning agent.

8. Exposure controls/personal protection

8.1. Control parameters

Phosphoric acid, EC-no: 231-633-2; CAS no. 7664-38-2

Type of limit value: AGW (TRGS 900, version: 12/2007), limit value: 2 mg/m³, peak limit: 2(l)

8.2. Exposure controls

8.2.1. Appropriate engineering controls:

See precautions under section 7 and 8

8.2.2. Personal protective equipment:

Eye protection/face protection

Safety goggles.

Close-fitting safety goggles (DIN EN 166).

Skin protection

Hand protection:

Observe the information of the manufacturer concerning time-lag and permeability.

Chemical-resistant safety gloves (DIN EN 374).

Glove material:

Polyvinyl acetate neoprene, NBR (nitrile butadiene rubber).

Penetration time (max. period of wear): > = 480 min

Thickness of glove material: 0,5 mm

Body protection:

Safety clothing.

Respiratory protection

Only in cases of aerosol/mist formation or if limit value of working place is exceeded:

Combination filter: ABEKP3-type or respiratory equipment depends on ambient air.

8.2.3. Environmental exposure controls:

See Section 6.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: liquid, colourless

Odour: odourless

Odour threshold: no data available

pH value (20 °C): 1-2

Melting point/freezing point: no data available

Initial boiling point and boiling range: 100 – 110 °C

Flash point: no data available



Evaporation rate: no data available

Flammability (solid, gas): no data available

Upper/lower flammability limit or explosive limits: no data available

Vapour pressure (20 °C): approx. 15 mbar

Vapour density: no data available

Relative density (20 °C): 1,1 g/cm³

Solubility: miscible with water

Partition coefficient: n-octanol/water: no data available

Autoignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Explosive properties: no data available

Oxidising properties: no data available

9.2. Other information

Further physical and chemical data have not been determined.

10. Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

No decomposition with proper storage and use.

10.3. Possibility of hazardous reactions

No hazardous reactions expected with proper use.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None.

10.6. Hazardous decomposition products

No decomposition with proper use.

11. Toxicological information

11.1. Information on toxicological effects

No toxicological findings are available for the mixture.

Acute toxicity:

Phosphoric acid, EC-no: 231-633-2; CAS no. 7664-38-2

LD50 (oral, rat): 2600 mg/kg (ECHA)

Skin corrosion/irritation

The product causes skin irritation.

Serious eye damage/irritation

The product causes serious eye irritation.

Respiratory/skin sensitization

On the basis of the available data, the mixture does not meet the classification criteria.

(Conventional method).

Germ cell mutagenicity

No information available for this product.

Carcinogenicity

No information available for this product.

Reproductive toxicity

No information available for this product.



STOT-single exposure

No information available for this product.

STOT-repeated exposure

No information available for this product.

Aspiration hazard

No information available for this product.

Other information:

The product has been classified in accordance with the calculation method of the Regulation (EC) 1272/2008 [CLP]. According to the experience of the manufacturer no hazards can be expected beyond those on the labelling.

12. Ecological information

12.1. Toxicity

Phosphoric acid, EC-no: 231-633-2; CAS no. 7664-38-2

Fish toxicity: LC50 at pH-value 3-3,5 (gambusia affinis, 96 h) (IUCLID)

12.2. Persistence and degradability

The product has been classified in accordance with the Regulation (EC) no. 648/2004 concerning detergents with respect to biodegradability.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available for this product.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for classification as a PBT or vPvB substance.

12.6. Other adverse effects

No information available.

13. Disposal considerations

13.1. Waste treatment methods

Product: May be disposed of as wastewater in accordance with local authority legislation – or transfer to a disposal company according to applicable waste regulations. EAK-no.: 110106

Packaging: Disposal according to the official regulations; recommended cleaning agent: water.

14. Transport information

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

Not hazardous material as defined by these transport regulations.



15. Regulatory information

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

EU Regulations

Regulation (EC) 2037/2000 (substances that deplete the ozone layer): not applicable.

Regulation (EC) No 850/2004 (persistent organic pollutants): not applicable.

Regulation (EC) No 689/2008 (export and import of dangerous chemicals): not applicable.

National Regulations

Water hazard class (WHC): 1 (slight water hazard).

Classification according to the German Administrative Regulation on the Classification of Substances Hazardous to Waters (VwVwS) of 17.05.1999, Annex 4.

15.2. Chemical safety assessment

The mixture was not subject to a safety assessment.

16. Other information

Text of hazard statements of the ingredients hazardous to health given under Section 3:

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

These hazard statements are not the classification of the product but relate only to the concentrated raw material phosphoric acid and N-Alkyl-N-benzyl-N,N-dimethylammonium chloride. The classification of the product is given in Section 2.

Key:

AGW Arbeitsplatzgrenzwert workplace exposure limit

AOX adsorbable organically bound halogens

CAS Chemical Abstract Service

E inhalable fraction

EWC European Waste Catalogue

EC European Community

IBC Code International code for the construction and equipment of ships carrying dangerous chemicals in bulk

LC Lethal Concentration

LDLo Lowest Lethal Dose

MWC Maximum Workplace Concentration

UN United Nations

VwVws German administrative regulation on the classification of substances hazardous to waters

Key literature references and sources for data:

Regulations:

Preparations Directive (1999/45/EC), REACH Regulation (EC) no 907/2006

References:

U. Welzbacher, Neue Datenblätter für gefährliche Arbeitsstoffe [New safety data sheets for dangerous substances], Weka-Verlag. GESTIS-Stoffdatenbank des Berufsgenossenschaftlichen Instituts für Arbeitsschutz (BIA). IUCLID Data set.



Internet:

<http://echa.europa.eu>

<http://www.baua.de>

<http://www.reach-info.de>

The information is based on the present state of our knowledge and relates to the product in its delivery state. It represents no assurance of properties but describes our product in respect of safety requirements. Observance of existing laws and regulations is the responsibility of the recipient of our product.

Amendments to the last version: *

