SAFETY DATA SHEET
ICE

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

1.1. Product identifier

Product name ICE

Product number 7524/22316

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

Identified uses Bleach

1.3. Details of the supplier of the safety data sheet

Supplier

Solent Laundry Solutions Ltd
C2 Segensworth Business Centre
Segensworth Road
Fareham
Hampshire
PO15 5RQ
Tel: 08453883834

1.4. Emergency telephone number

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Eye Dam. 1 - H318

Environmental hazards Not Classified

Human health Irritating to eyes.

Environmental The product contains a substance which is toxic to aquatic organisms.

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements H318 Causes serious eye damage.

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/ doctor.

Contains 6-(PHTHALIMIDO)PEROXYHEXANOIC ACID

Detergent labelling 15 - < 30% oxygen-based bleaching agents, < 5% phosphonates

Supplementary precautionary statements P310 Immediately call a POISON CENTER/ doctor.
P410 Protect from sunlight.
P420 Store separately.

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2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

6-(PHTHALIMIDO)PEROXYHEXANOIC ACID **15-30%**

CAS number: 128275-31-0 EC number: 410-850-8

M factor (Acute) = 1

Classification
Org. Perox. D - H242
Eye Dam. 1 - H318
Aquatic Acute 1 - H400

1,1-Hydroxy-ethyliden diphosphonic acid disodium salt **1-5%**

CAS number: 7414-83-7 EC number: 231-025-7

Classification
Aquatic Chronic 2 - H411

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move affected person to fresh air at once. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. DO NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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

Inhalation Irritation of nose, throat and airway.

Ingestion Nausea, vomiting. Diarrhoea. May cause stomach pain or vomiting.

Skin contact Prolonged contact may cause redness, irritation and dry skin.

Eye contact Severe irritation, burning and tearing.

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

Notes for the doctor No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Water spray, foam, dry powder or carbon dioxide.

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Unsuitable extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards Oxygen released in thermal decomposition may support combustion. Contact with combustible material may cause fire.

Hazardous combustion products Fire or high temperatures create: Oxygen.

5.3. Advice for firefighters

Protective actions during firefighting Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

For non-emergency personnel Prevent further leakage or spillage if safe to do so. Keep away from incompatible products.

For emergency responders Sweep up and remove for disposal.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not flush into surface water or sanitary sewer system. Avoid the spillage or runoff entering drains, sewers or watercourses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect spilled liquid in plastic container (NOT METAL). Never return to original tank/container. Flush away small residues with excess water. Contain spillage but do not absorb in sawdust or other combustible material. If substance has entered water course or sewer, advise police. Inform authorities if large amounts are involved.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Keep away from heat, sparks and open flame. Avoid spilling. Use approved respirator if air contamination is above an acceptable level. Avoid contact with the following materials: Acids. Moisture. Cleanliness is essential as any contamination may cause decomposition. Never return unused material to original containers. Eye wash facilities and emergency shower must be available when handling this product. Do not expose to temperatures exceeding 50°C/122°F.

7.2. Conditions for safe storage, including any incompatibilities

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Storage precautions	Keep only in the original container. Keep away from flammable and combustible materials. Keep away from heat, sparks and open flame. Store cool. Protect from light. Unsuitable containers: copper, zinc, aluminium, copper alloy, zinc alloy, aluminium alloy.
Storage class	Chemical storage.

7.3. Specific end use(s)

Specific end use(s)	The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

TWA = 3mg/m3

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Wear protective gloves made of the following material: Butyl rubber.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination. Wear rubber apron. Provide eyewash station and safety shower.
Hygiene measures	Provide eyewash station and safety shower. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Keep away from food and drink. Wash hands and face before break and the end of a shift. Avoid contact with the skin and eyes. Remove dirty clothes.
Respiratory protection	In the case of dust or aerosol formation, use respirator with an approved filter. Recommended Filter type: ABEK-P2

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	White/off-white.
Odour	No characteristic odour.
pH	pH (concentrated solution): 2.8-3.8 (100%) pH (diluted solution): 6.2-7.2 1%
Melting point	75°C
Initial boiling point and range	No specific test data are available.
Flash point	No specific test data are available.
Evaporation rate	No specific test data are available.
Flammability (solid, gas)	Not applicable.

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Vapour pressure	No specific test data are available.
Vapour density	No specific test data are available.
Relative density	1.00-1.10 @ 23°C
Bulk density	Not applicable.
Solubility(ies)	Soluble in water.
Partition coefficient	log Pow: 2.2
Auto-ignition temperature	470°C
Decomposition Temperature	>80°C
Viscosity	700 mPa s @ 25°C
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	The following materials may react with the product: Organic peroxides/hydroperoxides. Oxidising materials. Strong reducing agents. Will decompose at temperatures exceeding 80°C.

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Contact with combustible material may cause fire

10.4. Conditions to avoid

Conditions to avoid	Avoid heat, flames and other sources of ignition. Avoid direct sunlight. Decomposition starts at 80ºC with release of oxygen; avoid temperatures above 50ºC.

10.5. Incompatible materials

Materials to avoid	Strong acids. Strong alkalis. Metals, salts of metals, organic materials, flammable substances. Combustible materials. Reducing Agents Strong oxidising agents. Carbamates. Dithiocarbamates. Mercaptans (thiols). Inorganic sulphides. Nitriles and organic sulphides.

10.6. Hazardous decomposition products

Hazardous decomposition products	Rapid decomposition will release large quantities of oxygen (health and fire risk). Decomposition is exothermic causing temperature rise which will further increase the rate of decomposition creating explosive situations. On decomposition irritating gases, vapours and oxygen are released. Decomposition will not occur if product is stored and used correctly.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

ICE

Inhalation May cause respiratory system irritation. Vapours may irritate throat/respiratory system. Symptoms following overexposure may include the following: Coughing.

Ingestion May cause severe internal injury. May cause stomach pain or vomiting. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact This product is strongly irritating. Prolonged contact may cause burns.

Eye contact Risk of serious damage to eyes. A single exposure may cause the following adverse effects: Corneal damage. Irritation, burning, lachrymation, blurred vision after liquid splash.

Toxicological information on ingredients.

6-(PHTHALIMIDO)PEROXYHEXANOIC ACID

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,001.0
Species	Rat
ATE oral (mg/kg)	2,001.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,001.0
Species	Rabbit

SECTION 12: Ecological Information

Ecotoxicity The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms. The levels of environmentally hazardous materials are below the limit that would cause the preparation to be classified as Dangerous to the Environment.

12.1. Toxicity

Toxicity Not considered toxic to fish.

Ecological information on ingredients.

6-(PHTHALIMIDO)PEROXYHEXANOIC ACID

Acute aquatic toxicity

$LE(C)_{50}$	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC_{50}, 96 hours: 0.4 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 17.6 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC_{50}, 72 hours: 1.3 mg/l, Selenastrum capricornutum
Acute toxicity - microorganisms	EC_{50}, : 100 mg/l, Bacteria

12.2. Persistence and degradability

Persistence and degradability Readily biodegradable.

Ecological information on ingredients.

ICE

6-(PHTHALIMIDO)PEROXYHEXANOIC ACID

Biodegradation	- 70%: 28 days
Biological oxygen demand	89%

12.3. Bioaccumulative potential

Bioaccumulative potential	The product does not contain any substances expected to be bioaccumulating.
Partition coefficient	log Pow: 2.2

Ecological information on ingredients.

6-(PHTHALIMIDO)PEROXYHEXANOIC ACID

Partition coefficient	log Pow: < 3

12.4. Mobility in soil

Mobility	No specific test data are available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects	No specific test data are available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods	WASTE/UNUSED PRODUCTS: Collect all waste in suitable and labelled containers and dispose of according to legislation. CONTAMINATED PACKAGING: Empty containers should be taken for recycling, recovery or waste in accordance with local regulations. For recycling, ensure container is empty and bungs are replaced. Arrange disposal as a special waste by licensed disposal company in consultation with Local Waste Disposal Authority and in accordance with the Control of Pollution Act 1974.

EURAL Code

SECTION 14: Transport information

General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID). Not regulated.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Transport labels

No transport warning sign required.

14.4. Packing group

Not applicable.

ICE

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

EU legislation	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments	Revision is in accordance with Commission Regulation (EC) No 1272/2008
Revision date	10/02/2015
Revision	3
Supersedes date	19/08/2013
SDS number	7524/22316
Hazard statements in full	H242 Heating may cause a fire. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.