



HOLCHEM
SAFETY DATA SHEET

OPTIMUM SCALE AWAY

According to Regulation (EC) No. 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures.

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

1.1. Product identifier

Product name OPTIMUM SCALE AWAY
Product number OPTK13

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

Identified uses Detergent. Descaler. For professional use only.
Uses advised against Not for use by hand. Not for direct contact with Food or Beverage stuffs. Not for Direct Oral Consumption. Must not be used where Hypochlorite based chemicals (Bleach) are present.

1.3. Details of the supplier of the safety data sheet

Supplier Holchem Laboratories Limited
Gateway House, Pilsworth Road,
Pilsworth Industrial Estate,
Bury, Lancashire (UK)
BL9 8RD

+44 (0) 1706 222288
+44 (0) 1706 221550
info@holchem.co.uk

1.4. Emergency telephone number

Emergency telephone Out of Office Hours Emergency Information:-
For accidents and spillages involving this product that pose a threat to the environment, or human health, or require immediate first aid advice call:- +44(0) 7050 265597.
Note:- This number will not accept order queries or calls dealing with equipment breakdowns.

This product is registered with the NPIS. UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Met. Corr. 1 - H290

Health hazards

Skin Corr. 1B - H314

Environmental hazards

Not Classified

2.2. Label elements

Pictogram



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Signal word	Danger
Hazard statements	H314 Causes severe skin burns and eye damage. H290 May be corrosive to metals.
Precautionary statements	P234 Keep only in original container. P280 Wear protective clothing, gloves, eye and face protection. 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/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. P313 Get medical advice/attention.
Contains	PHOSPHORIC ACID
Detergent labelling	≥ 30% phosphates, < 5% amphoteric surfactants
Supplementary precautionary statements	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

PHOSPHORIC ACID	30-60%
CAS number: 7664-38-2 EC number: 231-633-2 REACH registration number: 01-2119485924-24	
Classification	Classification (67/548/EEC or 1999/45/EC)
Met. Corr. 1 - H290	C;R34.
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
BETA-ALANINE, N-(2 CARBOXYETHYL)-N-DODECYL MONO SODIUM SALT	1-5%
CAS number: 90170-43-7 EC number: 290-476-8	
Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Irrit. 2 - H319	Xi;R36.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments	To the best of our knowledge, all of the substances used in this product are being supported for the relevant application in REACH., Note:- H290 "May be Corrosive to Metals" refers to the neat product.
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SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

When it is safe to do so, remove victim immediately from source of exposure. However, consideration should be given as to whether moving the victim will cause further injury.

Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Get medical attention.

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Ingestion

Do not induce vomiting. Rinse mouth thoroughly with water. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention.

Skin contact

Remove contaminated clothing that is not stuck to the skin. Flush area with clean water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

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

General information

The information given here relates to the neat chemical, dilutions may also cause chemical burns to skin and permanent eye damage.

Inhalation

Inhalation of neat product is unlikely. However, inhalation of mists or vapours of diluted product may result in soreness, irritation or burns to the mouth, nose and respiratory tract. If mixed with Hypochlorite based products (Bleach) Chlorine Gas may be evolved, this can result in irritation to eyes and difficulty in breathing. If inhaled this may result in irritation to the mouth, nose and respiratory tract.

Ingestion

Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. Similar but less severe symptoms will be seen if dilute chemical is ingested.

Skin contact

Burns can occur.

Eye contact

Extreme pain and blurred vision. May result in permanent eye damage.

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

Notes for the doctor

Contains Phosphoric Acid and Surfactants in Aqueous Solution. Rinse well with water. If mixed with bleach will produce Chlorine Gas, check for respiratory disorders.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards

In contact with some metals (Aluminium, Zinc and their Alloys) Hydrogen Gas is formed, which may form an explosive mixture with air. Contact with Sodium Hypochlorite liberates toxic Chlorine Gas.

5.3. Advice for firefighters

Protective actions during firefighting

Protective clothing and respiratory protection should be worn when tackling fires involving this product. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters

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

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

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

Stop leak if possible without risk. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

See sections 8, 12 & 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist. Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Store in a demarcated bunded area to prevent release to drains and/or watercourses. Keep above the chemical's freezing point. Keep away from chlorinated and alkaline products. Store between -10 and +40 Degrees C.

7.3. Specific end use(s)

Specific end use(s)

Detergent / Descaler - Refer to use instructions.

Usage description

This product is suitable for use in food preparation areas, but is not designed for direct food contact.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

PHOSPHORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit

Ingredient comments

As a requirement of REACH we have considered all of components of this formulation. We believe that Phosphoric Acid is the most hazardous. Based on data from our suppliers, we understand that if the risk management measures outlines in section 8.2, users will have met the requirements of REACH for the expected uses of this product.

Where an exposure level is quoted, a risk assessment should consider if there is a need to monitor the atmosphere of the working environment. Results should be compared against the WEL and/or DNEL information provided.

The Long Term WEL refers to total exposure of a worker to a specific substance averaged out over an 8 hour period.

The Short Term WEL refers to a single exposure of a worker to a specific substance over a 15 minute period.

If the Short Term WEL is exceeded and no Long Term Limit is set, further exposure during the working shift is not permitted.

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Further controls should be implemented to ensure that future exposure to the substance is reduced below the levels set before the activity is repeated/continued.

Where no Short Term WEL exists, guidance from the HSE is to use a value of three times the Long Term WEL. The WEL limits are laid down in the EH40 list as supplied by the HSE. This is taken from the Chemical Agents Directive (98/24/EC). Where a worker is exposed to levels approaching a limit, further exposure control measures should be considered to reduce exposure to the substance.

Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

PHOSPHORIC ACID (CAS: 7664-38-2)

DNEL

- Inhalation; Long term local effects: 2.92 mg/m³

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

If use of this product generates dust, mists, vapours or fumes, process enclosures or local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits quoted in this msds or other data sources.

Personal protection

The PPE indicated above is not a COSHH assessment. It represents PPE that should be considered during the manufacture, distribution, use and final disposal stages of this product's life cycle. It is the responsibility of employers to conduct a COSHH/risk assessment to determine appropriate PPE levels. The information given below should be used to support this assessment. Where possible replace manual processes with automated or closed processes to minimise contact with the product.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield. Refer to EN Standard 166 to select appropriate level of protection.

Hand protection

Rubber (natural, latex). Neoprene. Polyvinyl chloride (PVC).
Refer to Standard EN 374.

Other skin and body protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible. Reference to EN 13832 and EN 943 is useful when selecting footwear and clothing.

Hygiene measures

Provide eyewash station and safety shower. Promptly remove non-impervious clothing that has become contaminated, provided it is not adhered to the skin. Contaminated clothing and shoes must be discarded.

Respiratory protection

No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Environmental exposure controls

Do not allow the substance to contaminate surface water/ground water. See points 6, 12 & 13.

Discharge of solutions into effluent systems (including municipal drains) or to surface water are expected to cause significant pH changes. Discharge of solutions should be carried out such that pH changes are minimised. Where necessary pH buffering measures should be adopted.

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General Health and Safety Measures.

The above information refers to the neat product. A 5% Solution would be classified as Skin Irrit.2 - H315. Use of gloves and eye protection is recommended when handling use solutions. Note mixing use solutions with Sodium Hypochlorite based products such as Bleach will produce toxic chlorine gas.
Risk assessments should refer to COSHH and any other relevant legislation or industry specific guidelines governing the use of Chemicals.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

Colour

Colourless. to Pale Green

Odour

Acidic.

Odour threshold

Not applicable.

pH

pH (diluted solution): 1.9 - 2.2 @ 1%

Melting point

< -10°C

Initial boiling point and range

Not available.

Flash point

Not applicable. Contains no Flammable Components

Evaporation rate

Not applicable.

Evaporation factor

Not applicable.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

Not applicable.

Vapour density

Not applicable.

Relative density

1.23 @ 20 Degrees C

Bulk density

Not applicable.

Solubility(ies)

Soluble in water.

Partition coefficient

Not applicable. Technically not feasible.

Auto-ignition temperature

Not applicable.

Decomposition Temperature

Not applicable.

Viscosity

Not determined.

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Explosive properties

Not applicable.

Explosive under the influence of a flame

Not considered to be explosive.

Oxidising properties

Not applicable. Does not meet the criteria for classification as oxidising.

9.2. Other information

Refractive index

Not applicable.

Particle size

Not applicable.

Molecular weight

Not applicable.

Volatility

Not applicable.

Saturation concentration

Not applicable.

Critical temperature

Not applicable.

Volatile organic compound

Not applicable.

Explosive Properties Not Classified as Explosive

Storage Temperature Range -10 to +40 degrees C

SECTION 10: Stability and reactivity

10.1. Reactivity

Not expected to react when correctly stored and used. Mixing with other chemicals may produce unexpected reactions. Stable under normal temperature conditions and recommended use. Avoid contact with caustic/alkaline material; this will generate heat and potentially corrosive vapour. Avoid contact with Hypochlorite based products; this will produce toxic Chlorine gas.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended. - See note 10.6.

10.3. Possibility of hazardous reactions

Refer to section 10.1.

Do not mix with Hypochlorite based chemicals, this will result in the generation of toxic chlorine gas.

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid

Avoid contact with reducing agents Contact with Hypochlorite based products will liberate Toxic Chlorine Gas.

10.6. Hazardous decomposition products

Does not decompose when used and stored as recommended. - See section 10.5.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Respiratory sensitisation

No evidence of respiratory sensitisation for any component of this formulation.

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Skin sensitisation

There is no evidence of skin sensitisation in humans.

Carcinogenicity

The components of this formulation will not be systemically available in the body under normal conditions of handling. As a consequence it is not expected to cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility

The components of this formulation will not be systemically available in the body under normal conditions of use and handling. As a consequence it is not expected to be toxic to the reproductive system or developing foetus.

General information

See section 4.2.

Inhalation

Inhalation of neat powdered product is unlikely without deliberate abuse, but will result in burns to the mouth, nose and respiratory tract. Inhalation of mists or vapours of diluted product may result in soreness, irritation or burns to the mouth, nose and respiratory tract.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Causes burns.

Eye contact

Risk of serious damage to eyes. May cause permanent eye injury. - See section 4.2.

SECTION 12: Ecological Information

Ecotoxicity

This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. Note:- It is advisable to check discharge permits for Phosphate limitations.

12.1. Toxicity

Acute toxicity - fish

Normal use of diluted product is unlikely to pose a risk. See note 12.0.

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) used in this preparation complies (comply) with the biodegradability criteria as laid down in the European Detergents Regulation No 648/2004 as amended.

12.3. Bioaccumulative potential

Not expected to bioaccumulate.

Partition coefficient

Not applicable. Technically not feasible.

12.4. Mobility in soil

Mobility

The product contains substances which are water soluble and may spread in water systems.

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

Not determined.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

When handling waste, the safety precautions applying to handling of the product should be considered. Do not mix with other chemicals. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1805
UN No. (IMDG)	1805
UN No. (ICAO)	1805

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PHOSPHORIC ACID
Proper shipping name (IMDG)	PHOSPHORIC ACID
Proper shipping name (ICAO)	PHOSPHORIC ACID
Proper shipping name (ADN)	PHOSPHORIC ACID

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID label	8
IMDG class	8
ICAO class/division	8

Transport labels



14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	8-08
Emergency Action Code	2R
Hazard Identification Number (ADR/RID)	80

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU legislation

European Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Substances and Mixtures. This replaces Directive 67/548/EEC - Classification, Packaging and Labelling of Dangerous Substances and Regulation (EC) No. 453/2010 relating to the Classification, Packaging and Labelling of Dangerous Preparations. Also considered is the REACH Regulation (EC) No.1907/2006.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

(EC) No. 1272/2008 : EU Regulation on Classification, Labelling and Packaging of Substances and Mixtures. NPIS - National Poisons Information Service.

PBT - Persistent, Bioaccumulative & Toxic.

vPvB - Very Persistent, Very bioaccumulative.

REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC 1907/2006).

DNEL - Derived No Effect Limit.

PNEC - Predicted No Effect Concentration.

COSHH - Control of Substances Hazardous to Health.

Industry - Refers in section 8 to application of the substance in an industrial process.

Professional - Refers in section 8 to application/use of the preparation/product in a skilled trade premises.

General information

This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customer's responsibility to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment.

Only trained personnel should use this material.

The Risk and Hazard statements listed below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.

Revision comments

Review in line with CLP Regulation.

Revision date 30/03/2015

Risk phrases in full

R34 Causes burns.

R36 Irritating to eyes.

Hazard statements in full

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

REACH extended MSDS comments

REACH requires that persons handling chemicals should take the necessary risk management measures, in accordance with assessments from manufacturers and importers of chemical substances. The relevant recommendations must be passed along the supply chain. These assessments are generally reported in Exposure Scenarios. Where Exposure Scenarios have been provided for substances used in this product, the relevant information is incorporated into the safety data sheet.

Disclaimer

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use. All composition information is based on suppliers data.