

HEAVY DUTY CLEANER

FEATURES & APPLICATIONS

Heavy Duty Cleaner is a powerful hard surface cleaner and degreaser.

The product finds application in a wide range of institutional and commercial premises and can boast several distinctive features. It is completely free of solvents, these having been replaced by a synergistic blend of surfactants. Not only is it an excellent all-round hard-surface cleaner, it is also a superb degreaser, cutting through all types of oil, fat and grease.

APPLICATION DETAILS

Task	Maximum Dilution	How To Use
General hard surface cleaning	1 in 80 with hot water (60ml per 5 litres)	Clean thoroughly, then leave to dry without rinsing.
General degreasing and heavy-duty cleaning	1 in 40 with hot water (125ml per 5 litres)	Apply to surface, leave for 5 minutes, then clean thoroughly and rinse with fresh water.
Removing oil spillages, grease	1 in 10 with hot water (500ml per 5 litres)	Apply to surface, leave for 5 minutes, then clean and rinse with fresh water.

Note: If using an ounce-a-matic dispenser, one measure = 30ml

PRODUCT AND PACKAGING INFORMATION

Appearance & Odour:	Clear yellow liquid
Chemical Description:	An aqueous solution of alkaline builders, surfactants and dye.
Packaging:	2 x 5 Litres, 20 Litres
Shelf Life:	2 years

ENVIRONMENTAL INFORMATION

General Information: Expected to have little ecological impact. The solvents normally found in this type of product have been replaced by biodegradable surfactants, and the alkalinity in this product will be neutralised by effluent treatment.

Environmental Checklist:

Biodegradable detergents	Yes	CFC free	Yes	Solvent free	Yes
Phosphate free	No	Acid/alkali free	No	Free of dyes/perfumes	No
Recyclable packaging	Yes	Biodegradable container	No	Biodegradable outer box	Yes

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Commercial Name Intended/Recommended use	Heavy Duty Cleaner Hard Surface Cleaner and degreaser.	Supplier Address	Unico Ltd North Main Street, Carronshore, Falkirk FK2 8HT 01324 573400 01324 573401
Issue Date Issue Number	Jan 2021 9	Telephone Fax	

2. HAZARDS IDENTIFICATION

2.1 Classification This product is classified under EC 1272/2008

Physical and Chemical Hazards	Not Classified
Human Health	May be harmful by inhalation
Environment	May be harmful to aquatic life

2.1 Label Elements Label in Accordance with (EC) No. 1272/2008



Signal Word	Warning
Hazard Statements	H400 Very toxic to aquatic life H318 Causes serious eye damage H315 Causes skin irritation
Precautionary Statements	P102 Keep out of reach of children. P103 Read label before use. EUH 210 Safety data sheet available on request. P302 +P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention. P305 +P351 +P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301 +P330 +P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P281 Use personal protective equipment as required. Wear eye protection when handling concentrated product. Wear rubber/impervious gloves for skin protection when handling concentrated product.

3. COMPOSITION OF PRODUCT AND INFORMATION ON INGREDIENTS

3.1 Mixtures

Concentrations below the concentration limit for classification in mixtures means that substance not reaching this does not need to be classified. Those that do not reach this concentration will still be included as indicative advice only.

Sodium metasilicate		1 . 10%
CAS-No.: 6834-92-0	EC No.: 229-912-9	
Classification (EC 1272/2008) Eye Damage 1 . H318	Skin Irritant 2 . H315 STOT 3 . H335	Aquatic Chronic 3 . H412

Alkyl alcohol ethoxylate		1 . 10%
CAS-No.: 68439-45-2	EC No.: 230-785-7	
Classification (EC 1272/2008) Eye Damage 2 . H318	Skin Irritant 2 . H315	Chronic Aq. 3 . H412 Acute Aq. 1 . H400 Acute oral / skin 4 . H302/312

Tetrapotassium pyrophosphate	1 . 10%
CAS-No.: 7320-34-5	EC No.: 230-785-7
Classification (EC 1272/2008) Eye Irritant 2 . H319	

<u>NAME</u>	<u>RANGE</u>	<u>EINECS</u>	<u>CAS No</u>	<u>Conc. Limit for Classification</u>
Quaternary Ammonium Compound	0.1-1%	-	68478-94-4	1%
Ether Amine Oxide	0.1-1%	-	68478-65-9	1%
C.I 19140 Yellow 5	<0.1%	217-699-5	1934-21-0	0.1%
C.I.61585	<0.1%	224-748-4	4474-24-2	0.1%

4. FIRST AID MEASURES

4.1 Description of first aid measures

- Ingestion** Drink a glass of water to dilute product. Do not induce vomiting. Act immediately to prevent further irritation of mouth, throat and stomach mucosa.
- Inhalation** No ill effects expected at concentrations used. If irritation is experienced go in open air and ventilate area. Mouth and throat may be rinsed with water.
- Eye Contact** Check for and remove contact lenses. Rinse thoroughly with plenty of water for several minutes.
- Skin Contact** Rinse affected area with water as instructed, if needed apply a cold compress to relieve irritation.

4.2 Most Important symptoms and effects, both acute & chronic

Where irritation of tissue occurs, stinging and redden accompanied by some discomfort for a short period after exposure no further exposure until condition improves. No Chronic effects known at the concentrations used in the mixture

4.3 Indication of any immediate medical attention and special treatment needed

If irritation to the mouth, throat, stomach, skin, eyes or respiratory system occurs and doesn't subside within a few minutes after the first aid measures have been carried out, seek immediate medical advice and have this SDS or the product label to hand.

A cold compress can be used to alleviate skin irritation.

5. FIRE FIGHTING MEASURES

- 5.1 Suitable extinguishing media** This product is not flammable. Use fire extinguishing media appropriate for surrounding area.
- Unsuitable extinguishing media** Not applicable.
- 5.2 Special hazards arising from the substance or mixture** Fumes may contain poisonous oxides of carbon and nitrogen (CO_x & NO_x) if affected by fire.
- 5.3 Advice for firefighters** Use appropriate extinguishing media for fires in the area. Firefighters should wear self-contained breathing apparatus if heat generated breakdown products are likely to be present

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and eyeshields.

6.2 Environmental Precautions

Avoid spillage into surface water drains, soil / subsoil or vegetation.

6.3 Methods and material for containment and cleaning up

Hose away with plenty of water, diluting well, unless this would contaminate a water source or vegetation. In which case either collect, dilute as earlier and pour down waste drain (foul sewer) or absorb onto dry sand or similar material and dispose of safely as commercial waste.

7. HANDLING AND STORAGE

- 7.1 Handling** Take care when dispensing product from container. Avoid contact with skin and eyes. Do not mix with any other chemicals.

7.2 Storage Store upright in original containers in a cool dry area out of the reach of children.
7.3 Specific end use(s) Use only as directed by the front page of this document and the product label

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Note: No substances above 1% in the product with a listed exposure limit in EH40

8.2 Exposure Control

Respiratory Protection Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear a facemask with a suitable particulate filter.
Skin Protection Personal protection is not normally required unless a risk assessment indicates the need for it .In which case wear protective overalls and safety shoes/boots.
Eye Protection Personal protection is not normally required unless a risk assessment indicates the need for it .In which case ear eyeshields.
Hand Protection For prolonged contact or sensitive skin the use of rubber gloves is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Yellow Liquid	Flash Point (ACC)	Above 60°C
Odour	Surfactant	Viscosity (20C)	20op approximately
pH	12.5 typically	Water Solubility	Soluble

9.2 Other Information

None

10. STABILITY AND REACTIVITY

10.1 Reactivity Not known to react with other chemicals
10.2 Chemical Stability No stability concerns
10.3 Hazardous Reactions None known
10.4 Conditions to Avoid Extreme heat or cold
10.5 Incompatible Materials None known.
10.6 Hazardous decomposition products None when handled and stored correctly.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

We have not carried out any animal testing for this product. Any ATE figures quoted below are from Toxicity Classifications that have been carried out using ATE (Acute Toxicity Estimate) Calculation Method using LD50 or ATE figures provided by the Raw Material Manufacturer.

Consideration is only given to components with greater than 1% based on the product formulation and those with a listed exposure limit in Section 8.

Acute Toxicity – Irritant & damaging to tissue and eyes

Component	LD-50, Oral, mg/kg	LD-50, Skin mg/kg	LC-50 (Inhalation)	Chronic Consideration
Sodium Metasilicate	1280 (rat)	--	--	None known
Tetrapotassium Pyrophosphate	2980 (mouse)	>4640 (rabbit)	--	None known
Alcohol Ethoxylate	1000-2000 (rat)	1000-2000 (rabbit)	-	None known

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product
Sensitization No information available.
Mutagenic Effects No information available
Reproductive Effects No information available.
Developmental Effects No information available.
Target Organs Vital organs through ingestion
Endocrine Disruptor Info. No information available.
Other Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information

12. ECOLOGICAL INFORMATION

12.1 Toxicity
Ecotoxicity effects

Component	Toxicity to Fish LC-50, mg/l	Exposure Time, Hrs	Comments
Sodium Metasilicate	210 (fish)	96	
Tetrapotassium Pyrophosphate	--	--	No available data
Alcohol Ethoxylate	8.5 (Pimephales promelas)	96	

12.3 Bioaccumulation Potential

With the current information available, when used for its intended purpose this product will not cause adverse effects in the environment.

12.4 Mobility in soil

No information available

12.5 Aquatic Toxicity

With the current information available, this is judged to be low at the dilutions that exist.

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Discharge used working solutions to drain is acceptable in small amounts due to the dilution of running water. Small amounts (less than 1 Litre) of unwanted concentrated product may be flushed with water to sewer with at least 15 minutes of running water.

Larger volumes of the concentrated product must be sent for disposal using a licensed waste disposal contractor.

Rinse out empty container with water and consign to normal waste.

14. TRANSPORT

Not regulated for Transport with current knowledge

15. REGULATORY INFORMATION

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

EU legislation

Safety Data Sheet prepared in accordance with REACH Commission Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). The product is as classified under GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures. Ingredients are listed with classification GHS/CLP- Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

Guidance

Workplace Exposure Limits EH40.

The National Institute for Occupational Safety and Health (NIOSH) register of Immediately Dangerous to Life or Health Concentrations (IDLH)

16. OTHER INFORMATION

This product does not require any special training before use. Usage and handling instructions are mentioned on packaging and on the first page of this Safety Data Sheet. This health and safety information refers to the concentrated product and has been prepared assuming the intended described use is adhered to. Any unusual or novel use of this product is done without being assessed for the impact nor is it part of the considerations in this document.

Diluted solutions can be considered to be significantly less hazardous although they should always be handled with care.

Key literature references and sources for data

Safety Data Sheet, Misc. manufacturers.

CLP Classification - Table 3.1 List of harmonised classification and labelling of hazardous substances.

CHIP Classification - Table 3.2 The list of harmonised classification and labelling of hazardous substances from Annex I to Directive 67/548/EEC.

ECHA - C&L Inventory database.

PRODUCT SAFETY DATA SHEET

**Revision comments**

This product is now using classification from GHS/CLP - Regulation (EC) No 1272/2008 classification, labelling & packaging of substances & mixtures.

The Hazard Statements listed below in this Section No 16 relate to the Raw Materials (Ingredients) in the Product (as listed in Section 3) and NOT the product itself. For the Risk Phrases / Hazard Statements relating to this Product see Section 2.

Hazard statements in full

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

H400 Very toxic to aquatic life

H412 Harmful to aquatic life with long-lasting effects