SAFETY DATA SHEET ECLIPSE HD DESCALER

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 ECLIPSE HD DESCALER

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

Identified uses Heavy duty descaler. For professional use only.

Uses advised against Not for direct contact with Food or Beverage stuffs. Not for oral consumption. Use of this

product for cleaning by hand is not recommended. Must not be used where Hypochlorite

based chemicals (Bleach) are present.

1.3. Details of the supplier of the safety data sheet

Supplier Able Cleaning & Hygiene Supplies

Blenheim House, 27-33 Threxton Road Industrial Estate, Watton, Norfolk, IP25 6NG

01953 885 661

info@ablecleaningandhygiene.com

1.4. Emergency telephone number

Emergency telephone 0845 180 0640 (24 Hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC/1272/2008)

Physical hazards Met. Corr. 1 - H290

Health hazards Skin Corr. 1B - H314 STOT SE 3 - H335

Environmental hazards Not Classified

2.2. Label elements

Pictogram





Signal word Danger

Hazard statements H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Precautionary statements P234 Keep only in original container.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 HYDROCHLORIC ACID

Detergent labelling < 5% non-ionic surfactants

ECLIPSE HD DESCALER

Supplementary precautionary statements

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P403+P233 Store in a well-ventilated place. Keep container tightly closed. 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. Note:- H290 May be Corrosive to Metals Classification relates to Soft Metals such as Aluminium and Copper, when used correctly this product is not expected to be corrosive to 304 and 316 Stainless Steel.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

HYDROCHLORIC ACID 10-30%

CAS number: 7647-01-0 EC number: 231-595-7 REACH registration number: 01-

2119484862-27

Classification Classification (67/548/EEC or 1999/45/EC)

Met. Corr. 1 - H290 C:R34, Xi:R37.

Skin Corr. 1B - H314 STOT SE 3 - H335

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 relevent application in REACH.

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. Provide rest, warmth and fresh air. If

breathing stops, provide artificial respiration. Get medical attention if any discomfort

continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly. Place unconscious person on their 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 any discomfort continues.

Eye contact Remove any contact lenses and open eyelids wide apart. Promptly wash eyes with plenty of

water while lifting the eyelids. 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 Neat product may cause chemical burns and permanent eye damage. Dilute product may

cause irritation to the skin and eyes.

Inhalation Irritating to respiratory system. 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.

ECLIPSE HD DESCALER

Ingestion Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical

burning of mouth, throat and GI tract will occur. If dilute chemical is ingested, soreness of

mouth, throat and GI tract may occur together with redness and blistering.

Skin contact Causes severe burns.

Eye contact May cause chemical eye burns. May result in permanent eye damage.

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

Notes for the doctor Rinse well with water to neutral pH. If mixed with bleach will produce Chlorine Gas, check for

respiratory disorders.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media This product will not support combustion and is not flammable. Use an extinguishing media

suitable for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Specific hazards On heating irritating fumes may be formed. Contact with Sodium Hypochlorite or products

containing Sodium Hypochlorite will liberate Chlorine Gas. Reactions with some metals can

produce flammable hydrogen gas. Note - Comment refers to neat product.

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

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

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Stop leak if possible without risk. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Neutralise small amounts with sodium bicarbonate or lime and flush to sewer with large amounts of water.

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 appropriate clothing to prevent any possibility of liquid contact and repeated or

prolonged vapour contact. Refer to section 8.

7.2. Conditions for safe storage, including any incompatibilities

ECLIPSE HD DESCALER

Storage precautions Keep only in the original container. Keep container tightly closed. Store below 40°C. Keep

away from chlorinated and alkaline products.

7.3. Specific end use(s)

Specific end use(s) Acidic descaler. Refer to Product Information Sheet.

Usage description Use as instructed on the product information sheet.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

HYDROCHLORIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 ppm 2 mg/m^3 Short-term exposure limit (15-minute): WEL 5 ppm 8 mg/m^3

WEL = Workplace Exposure Limit

Ingredient comments

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. 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.

HYDROCHLORIC ACID (CAS: 7647-01-0)

DNEL Workers - Inhalation; Acute local effects: 15 mg/m³

Workers - Inhalation; Long term local effects: 8 mg/m³

PNEC - Fresh water; 36 μg/l

Marine water; 36 μg/l
Intermittent release; 45 μg/l

- STP; 36 μg/l

8.2. Exposure controls

Protective equipment









Appropriate engineering controls

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.

ECLIPSE HD DESCALER

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 full-face visor or shield. Refer to EN Standard 166 to select appropriate level of

protection.

Hand protection Impervious Chemical Resistant Gloves of Butyl Rubber, PVC, Polychloroprene with a natural

latex liner, all with a minimum material thickness 0.5mm and a breakthrough time of

>480mins. Alternatively Nitrile Rubber, Fluorinated Rubber, both with a minimum thickness of

0.35 - 0.4mm and a breakthrough time of >480minutes. 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 Promptly remove non-impervious clothing that has become contaminated, provided it is not

adhered to the skin. Contaminated clothing and shoes must be discarded. Provide eyewash

station and safety shower.

Respiratory protection No specific recommendation made, but respiratory protection must be used if the general

level exceeds the Workplace Exposure Limit. In the case of dust or aerosol formation (eg spraying), or vapour from hot vessels, use respiratory protection with an approved filter (P2).

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.

General Health and Safety

Measures.

The above requirements refer to the neat chemical. In-use solutions may have a lower classification, however, a full risk assessment should be carried out before handling any chemical(s). 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 Liquid

Colour Yellow.

Odour Pungent.

Odour threshold Not applicable.

pH pH (concentrated solution): <0

Melting point Not applicable.

Initial boiling point and range Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Evaporation factor Not applicable.

Flammability (solid, gas) Not applicable.

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Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

Relative density 1.10 - 1.12

Bulk density Not applicable.

Solubility(ies) Soluble in water.

Partition coefficient Not applicable.

Auto-ignition temperature Not applicable.

Decomposition Temperature Not applicable.

Viscosity Not determined.

Explosive properties Not applicable.

Explosive under the influence

of a flame

Not considered to be explosive.

Oxidising properties 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 0 to +40 Degrees C

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity 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

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

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Refer to section 10.1. Reacts with alkalis and generates heat. Do not mix with Hypochlorite based chemicals, this will result in the generation of toxic chlorine gas. In contact with soft metals such as Aluminium, Hydrogen gas may be produced - Comments refers to the neat product.

10.4. Conditions to avoid

ECLIPSE HD DESCALER

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Alkalis. Bleach. Soft metals such as Copper, Brass, Zinc and Aluminium.

10.6. Hazardous decomposition products

Hazardous decomposition

No specific hazardous decomposition products noted. - See section 10.5.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

General information Toxic effect linked with corrosive properties. See section 4.2.

Inhalation Irritating to respiratory system. Inhalation of sprayed droplets or vapours from hot surfaces

may result in severe burns to the mouth, nose, GI tract and airways. - See section 4.2.

Ingestion Causes severe burns. May cause chemical burns in mouth, oesophagus and stomach.

Skin contact Causes severe burns.

Eye contact Risk of serious damage to eyes. May cause permanent eye injury.

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. High concentrations in receiving waters will damage aquatic life due to the effects of low pH. Low concentrations may act as plant nutrient or precipitate heavy metals.

Dilute use solutions are unlikely to pose a risk to the environment.

12.1. Toxicity

Acute toxicity - fish This mixture is not classified as toxic to aquatic organisms.

Normal use of the diluted product is not expected to pose any risk.

See note 12.0

12.2. Persistence and degradability

Persistence and degradability This product consists mainly of inorganic components for which biodegradation assessment is

not applicable. The product meets the requirements of the European Detergents Regulation

648/2004 as amended.

12.3. Bioaccumulative potential

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient Not applicable.

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

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 Not determined.

ECLIPSE HD DESCALER

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) 3264
UN No. (IMDG) 3264
UN No. (ICAO) 3264
UN No. (ADN) 3264

14.2. UN proper shipping name

Proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID)

(ADR/RID)

Proper shipping name (IMDG) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID)

Proper shipping name (ICAO) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID)

Proper shipping name (ADN) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONTAINS HYDROCHLORIC ACID)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C1

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

ECLIPSE HD DESCALER

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number 80

(ADR/RID)

Tunnel restriction code (E)

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

SECTION 15: Regulatory information

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

Pcs Information

Pcs Number

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.

COSHH - Control of Substances Hazardous to Health.

DNEL - Derived No Effect Limit.

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

NPIS - National Poisons Information Service. PBT - Persistent, Bioaccumulative & Toxic.

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

trade premises.

REACH - Registration, Evaluation, Authorisation & restriction of CHemicals (Regulation EC

1907/2006).

vPvB - Very Persistent, Very bioaccumulative.

General information

Only trained personnel should use this material. 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. 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 of properties

Revision date 18/07/2016

SDS number 21731

Hazard statements in full H318 Causes serious eye damage.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

ECLIPSE HD DESCALER

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 relevent 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 relevent information is incorporated into the safety data sheet.

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.