SAFETY DATA SHEET ADMIRAL LEMON MULTIPURPOSE CLEANER RTU

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 ADMIRAL LEMON MULTIPURPOSE CLEANER RTU

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

Identified uses Detergent. For professional use only.

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

1.3. Details of the supplier of the safety data sheet

Supplier MERLIN CHEMICALS

UNIT 5, PASSFIELD MILL INDUSTRIAL PARK, LIPHOOK, HAMPSHIRE, GU30 7RR

+44 (0) 1428 751122 +44 (0) 1428 751133

technical@merlinchemicals .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.

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 Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Supplemental label

EUH210 Safety data sheet available on request.

information

Detergent labelling < 5% non-ionic surfactants, Contains d-Limonene

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

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

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4.1. Description of first aid measures

General information In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Get medical attention if any discomfort continues.

Ingestion Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention

immediately. Show this Safety Data Sheet to the medical personnel.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

attention if irritation persists after washing.

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. Get medical attention

if irritation persists after washing.

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 Prolonged contact may result in dryness of skin. Eye contact may result in redness and

stinging discomfort.

Inhalation Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat,

mouth and nose.

Ingestion Unlikely route of exposure without deliberate abuse. There may be soreness and redness of

mouth and throat. A soapy taste may be reported. May cause irritation/discomfort to mucous

membranes.

Skin contact Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. Use

solutions may cause mild irritation, especially to open cuts and abrasions.

Eye contact May cause redness and irritation (stinging sensation) to eyes.

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

Notes for the doctor Rinse well with water.

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 The product is non-combustible. If heated, irritating vapours may be formed.

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 Ensure adequate ventilation of the working area. 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 safe to do so. Contain and absorb spillage with sand, earth or other non-

combustible material. Collect and place in suitable labelled 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 Refer to section 8. Ensure adequate ventilation of the working area. Wear suitable protective

equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store below

40°C.

7.3. Specific end use(s)

Specific end use(s) Detergent, refer to Product Information Sheet for full details.

Usage description Refer to use instructions.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

SODIUM HYDROXIDE

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

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. DNEL and/or PNEC information is supplied by manufacturers of substances in accordance with REACH legislation (Regulation (EC) No 1907/2006), and is used to provide suitable risk reduction measures to limit exposure of the user of the substance to a non hazardous level. If the measured level of exposure by a route divided by the DNEL for the route is greater than 1, then further exposure controls should be implemented as described in section 8.2. Where new information becomes available under REACH, this will be passed on as revisions to the Safety Data Sheet.

ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT (CAS: 64-02-8)

DNEL Professional - Inhalation; Long term systemic effects: 2.5 mg/m³

Professional - Inhalation; Long term local effects: 2.5 mg/m³ Professional - Inhalation; Short term systemic effects: 2.5 mg/m³ Professional - Inhalation; Short term local effects: 2.5 mg/m³

PNEC - Fresh water; 2.2 mg/l

- Marine water; 0.22 mg/l - Intermittent release; 1.2 mg/l

Soil; 0.72 mg/kgSTP; 43 mg/kg

ALKYL DIMETHYL AMINE OXIDE (CAS: 308062-28-4)

DNEL Professional - Dermal; Long term systemic effects: 11 mg/kg/day

Professional - Inhalation; Long term systemic effects: 15.5 mg/m3 8h

Professional - Dermal; Long term local effects: 0.27 %

General population - Dermal; Long term systemic effects: 5.5 mg/kg/day General population - Inhalation; Long term systemic effects: 3.8 mg/m³ General population - Oral; Long term systemic effects: 0.44 mg/kg/day

PNEC - Fresh water; 0.0335 mg/l

Marine water; 0.00335 mg/l
Intermittent release; 0.0335 mg/l
Sediment (Freshwater); 1.02 mg/kg
Sediment (Marinewater); 24 mg/kg

Soil; 1.02 mg/kgSTP; 24 mg/kg

SODIUM HYDROXIDE (CAS: 1310-73-2)

DNEL Industry - Inhalation; Long term local effects: 1.0 mg/m³

DNEL data for Professional users is not yet available, but it is assumed to be the

same as for Industrial users.

Industry - Dermal; Short term local effects: 2%

PNEC No information is available for PNEC data for Sodium Hydroxide

MONOPROPYLENE GLYCOL (CAS: 57-55-6)

DNEL Professional - Inhalation; Long term systemic effects: 186 mg/m³

Professional - Inhalation; Long term local effects: 10 mg/m³

PNEC - Fresh water; 206 mg/l

- Marine water; 26 mg/l

Sediment (Freshwater); 572 mg/lSediment (Marinewater); 57.2 mg/l

Soil; 50 mg/kg dwtSTP; 20000 mg/l

8.2. Exposure controls

Protective equipment





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 approved, tight fitting safety glasses where splashing is probable. 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

Wear suitable protective clothing as protection against splashing or contamination. 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.

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

level exceeds the Workplace Exposure Limit.

Environmental exposure

controls

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

General Health and Safety

Measures.

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 Characteristic.

Odour threshold Not applicable.

pH pH (concentrated solution): 8 - 10

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.

Upper/lower flammability or

explosive limits

Not applicable.

Vapour pressure Not applicable.

Vapour density Not applicable.

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Relative density 1.00 - 1.02

Bulk density Not applicable.

Solubility(ies) Soluble in water.

Partition coefficient Technically not feasible.

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

Particle size

Not applicable.

Molecular weight

Not applicable.

Volatility

Not applicable.

Saturation concentration

Not applicable.

Critical temperature

Not applicable.

Explosive Properties Not Classified as Explosive

Not applicable.

Storage Temperature Range 0 - 40°C

SECTION 10: Stability and reactivity

Volatile organic compound

10.1. Reactivity

Reactivity Not expected to react when correctly stored and used. Mixing with other chemicals may

produce unexpected reactions.

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

Possibility of hazardous

reactions

Refer to section 10.1. Do not mix with Hypochlorite based chemicals, this could result in a

dangerous heating of the solution.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Materials to avoid Strong acids. Bleach.

10.6. Hazardous decomposition products

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

General information See section 4.2.

Inhalation Unlikely route of exposure. Inhalation of sprayed droplets may result in soreness of the throat,

mouth and nose. - See section 4.2.

Ingestion Unlikely route of exposure without deliberate abuse. There may be soreness and redness of

mouth and throat. A soapy taste may be reported. May cause irritation/discomfort to mucous

membranes.

Skin contact Under normal conditions of use exposure time will be short and the likelihood of causing skin

irritation will be very low. Long exposure may result in skin dryness.

Eye contact May cause temporary eye irritation.

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.

12.1. Toxicity

Acute toxicity - fishNormal 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

Bioaccumulative potential Not expected to bioaccumulate.

Partition coefficient 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

Results of PBT and vPvB

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

assessment

12.6. Other adverse effects

Other adverse effects Not determined.

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 methodsDisposal 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. Small volumes of use solution can be disposed of to sewers.

SECTION 14: Transport information

General

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

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 MARPOL73/78 and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

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

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.

vPvB - Very Persistent, Very bioaccumulative.

PBT - Persistent, Bioaccumulative & Toxic.

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.

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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. 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 01/05/2015

SDS number 20984

Hazard statements in full H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

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.