

All surfactants used in this product comply with the current European Regulations concerning Biodegradability and protection of the environment.

Product Information

Duo +

Heavy Duty Degreaser & Sanitiser

- Rapidly removes fat, grease & grime and ingrained soil
- Kills food poison bacteria like E. Coli, Salmonella and Listeria
- Bactericidal and BSEN 1276 Tested – safe in food areas
- Suitable on a variety of surfaces including stainless steel, stone, concrete and plastic
- Can be diluted with either warm or cold water
- Unperfumed, solvent and taint free
- Heavy duty degreasing action
- Concentrated

Product Description:

Duo + is a powerful degreaser and sanitiser in one, specially formulated for professional use. It will remove heavy grease and grime from a wide range of surfaces in kitchens and food processing areas, as well as kill food poison bacteria such as E. Coli, Salmonella and Listeria. Duo + is concentrated and contains active degreasing and disinfectant properties that will cleaning and disinfect at the same time, so it is extremely time and cost effective.

Directions and Dilutions:**GENERAL CLEANING:**

Dilute 1:200 parts water
Mop, wipe or spray surface.
Rinse after application.

HEAVY SOILING & GREASE:

Dilute 1:100 parts water
Mop, wipe or spray surface.
Rinse after application.

Useful Information:

Product Characteristics: Off-white liquid. Characteristic odour.
Unperfumed.

+

Storage: Store in original sealed container and protect from extremes of temperature

Availability: Available in 2x5 litre boxes

Composition: Contains a blend of alkylamine carboxylate, bezalkonium chloride and sodium hydroxide.

For any further information on this product or any other Sky Chemicals product, please contact us and we will be more than willing to help.

Safety Data Sheet

1) IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

PRODUCT NAME: DUO +
CODE: CLO319
DATE UPDATED: 03/11/11

SKY CHEMICALS UK LTD, UNIT 12 SHEFFIELD DESIGN STUDIOS, 40 BALL STREET, SHEFFIELD, S3 8DB

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2) COMPOSITION/INFORMATION ON INGREDIENTS

ALKYLAMINE CARBOXYLATE 1-10%

[Xi] R36, EINECS: POLYMER CAS: 24938-91-8, [Xn] R22; [Xi] R41

BENZALKONIUM CHLORIDE 1-10%

CAS: 68424-85-1, R34; [Xn] R21/22; [N] R50

C9/11 A, >3-6 EO PREDOMINANTLY LINEAR (DID 21) 1-10%

EINECS: POLYMER CAS: 160875-66-1

[Xi] R41

SODIUM HYDROXIDE 1-10%

EINECS: 215-185-5 CAS: 1310-73-2, [C] R35

3) HAZARDS IDENTIFICATION

Causes Burns.

4) FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position.

If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available.

Transfer to hospital as soon as possible.

5) FIRE FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

Exposure hazards: Corrosive. In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Protection of fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6) ACCIDENTAL RELEASE MEASURES

Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7) HANDLING AND STORAGE

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Stainless steel. Teflon. Polyethylene. Do not use aluminium containers.

8) EXPOSURE CONTROLS AND PERSONAL PROTECTION

Hazardous ingredients: SODIUM HYDROXIDE

WEL (15 min STEL): 2 mg/m³

Hand protection: Impermeable gloves. Gloves (alkali-resistant). PVC gloves. Viton gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing. Alkali resistant protective clothing.

9) PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Off-white

Odour: Characteristic odour

Evaporation rate: Moderate

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Soluble

Viscosity: Non-viscous

Boiling point/range°C: 100 C

Melting point/range°C: 0 C

Relative density: 1.05 - 1.15

pH: 13 - 13.5

VOC g/l: 0

10) STABILITY AND REACTIVITY

Stability: Stable under normal conditions.

Conditions to avoid: Heat.

Materials to avoid: Strong oxidising agents.

Haz. decomp. products: In combustion emits toxic fumes.

11) TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Refer to section 3 & 8.

12) ECOLOGICAL INFORMATION

Mobility: Readily absorbed into soil.

Persistence and degradability: Biodegradable. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No.648/2004 on detergents.

Bioaccumulative potential: No bioaccumulation potential.

13) DISPOSAL CONSIDERATIONS

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14) TRANSPORT INFORMATION

ADR / RID

UN no: 1760 **ADR Class:** 8

Packing group: III **Classification code:** C9

Shipping name: CORROSIVE LIQUID, N.O.S. ((SODIUM HYDROXIDE))

Labelling: 8 **Hazard ID no:** 80

IMDG / IMO

UN no: 1760 **Class:** 8

Packing group: III **EmS:** F-A,S-B

Marine pollutant: .

Labelling: 8

IATA / ICAO

UN no: 1760 **Class:** 8

Packing group: III

Packing instructions: 818(P&CA); 820(CAO)

Labelling: 8

15) REGULATORY INFORMATION

Hazard symbols: Corrosive.

Risk phrases: R34: Causes burns.

Safety phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Haz. ingredients (label): SODIUM HYDROXIDE

Seveso II guideline: No

Water hazard class: 1 Classification by VwVwS

Air emission directive: Amount m%: 0

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16) OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Regulation (EC) No 1907/2006.

Risk phrases used in s.3: R36: Irritating to eyes, R22: Harmful if swallowed, R41: Risk of serious damage to eyes, R34: Causes burns.

R21/22: Harmful in contact with skin and if swallowed, R50: Very toxic to aquatic organisms, R35: Causes severe burns.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.