

COSHH SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

**COMMERCIAL & INDUSTRIAL
DISHWASHERS** DIRECT

**LT SANITIZER
AND TANNIN
REMOVER**

1S

Deep Furrow Avenue, Carlton, Nottingham, NG4 1RS, UK Tel 01159 613720 Fax 01159 119247
EMERGENCY TELEPHONE NUMBER 01159 613720

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components Chlorine based bleaching agent
Conc. 5-15% Available chlorine
EINECS No.
CAS No.
Hazard Xi-Irritant
Risk Phrase: R31 Contact with acids liberates toxic gas.

3. HAZARDS IDENTIFICATION

The product is classed as an irritant and can cause irritation to the eyes and skin.



4. FIRST AID MEASURES

EYES: Immediately flush with eye wash solution or clean water for at least 10 minutes. GET MEDICAL ATTENTION.
SKIN: Wash the affected area with plenty of water.
INGESTION: GET MEDICAL ATTENTION – Drink copious amounts of water or milk. Do not induce vomiting.
INHALATION: Remove from exposure. GET MEDICAL ATTENTION.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Not applicable. Non flammable.
SPECIAL HAZARDS: Chlorine gas may be evolved.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Wear suitable eye/face protection, gloves and protective clothing.

ENVIRONMENTAL PRECAUTIONS:

If contamination of water courses drains or vegetation occurs inform relevant authorities.

SPILLAGE TREATMENT:

Small spillage: Treat with sodium sulphite to neutralise and wash with large amounts of water.

Large spillage: Mix with sand or earth and remove to suitable container for transfer to an approved chemical tip or alternatively flush to drain

7. HANDLING AND STORAGE

HANDLING: Trained personnel wearing suitable protective clothing. Avoid contact with skin or eyes.
STORAGE: Store in secure chemical area at ambient temperature in closed vessels away from reactive chemicals.
PACKAGING: Supplied in 5, 10 litre approved containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



GENERAL: No specific measures are required provided the product is handled in accordance with the general rules of occupational hygiene and safety. Avoid contact with eyes, skin or clothes.

PERSONAL PROTECTION: The following personal protective equipment should be provided.

SKIN PROTECTION: Protective overalls/shoes.

HAND PROTECTION: Impervious gloves.

EYE PROTECTION: Chemical safety goggles.

All personal protective equipment must comply with EEC standards and be maintained to ensure suitability for use.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Straw coloured liquid.
ODOUR: Characteristic bleach odour.
RELATIVE DENSITY: 1.075
pH 1% soln.: 10.0-11.0
WATER SOLUBILITY: Completely soluble in water.

10. STABILITY AND REACTIVITY

STABILITY: Product decomposes with time.
CONDITIONS TO AVOID: Increase in temperature and exposure to light.
MATERIALS TO AVOID: Avoid contact with acids, oxidising agents and metals such as zinc and aluminium.
DECOMPOSITION PRODUCTS: Chlorine gas will be evolved if mixed with acids.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Corrosive by ingestion, inhalation, skin and eye contact. Local corrosive effects predominate.
EYES: Contact with liquid or spray can cause eye damage.
SKIN: Liquid can cause severe irritation and burns if contact prolonged.
INGESTION: Severe irritation and corrosion of mouth, throat and digestive tract.
INHALATION: Irritation of the nose, throat and respiratory tract.

12. ECOLOGICAL INFORMATION

MOBILITY: Readily miscible with water.
DEGRADABILITY: Product is above 98% biodegradable.
ACCUMULATION: None known.
ECO TOXICITY: Contains substances which can affect the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Wear appropriate protective clothing. Soak up with sand or earth and remove to suitable container for transfer to chemical tip. Wash down contaminated area with copious quantities of water. Disposal should be in accordance with waste disposal or water authority regulations.

14. TRANSPORT INFORMATION

UN No: 1791
Hazard Class: 8 Corrosive liquid
Packaging Group: II

Only transport in original containers in upright position. Never remove containers from cardboard cartons before transporting. Unless containers are palletised never transport stacked more than four high.

15. REGULATORY INFORMATION

Chemicals (Hazard Information and Packaging for Supply) Regulations 1999 Classification: Xi Irritant

Risk Phrases: R31 Contact with acids liberates toxic gas.
Safety Phrases: S28 After contact with skin, wash immediately with plenty of water.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S50 Do not mix with acids.

Use of this product may be governed by the following regulations:
Chemical Hazard Information and Packaging Regulations 1999,
Carriage of Dangerous Goods by Road and Rail (C.P.L.2) Regulations 1996,
Control of Substances Hazardous to Health Regulations 1999.

16. OTHER INFORMATION

This product is a unique destainer which when used with Dishwashers Direct Dishwashing detergents will assist in tannin removal.

We have taken all reasonable care in the preparation of this Material Safety Data Sheet. The information contained is for guidance only and recipients should satisfy themselves as to its suitability and completeness for their own particular application. The information contained in the Material Safety Data Sheet is believed to be correct at the time of publication.

TECHNICAL INFORMATION

LT SANITIZER AND TANNIN REMOVER

1S

LT Sanitizer and Tannin Remover is a unique destainer which when used in conjunction with Dishwashers Direct machine dishwashing detergents will assist in tannin removal and give an effective saving in operating costs.

TECHNICAL DATA

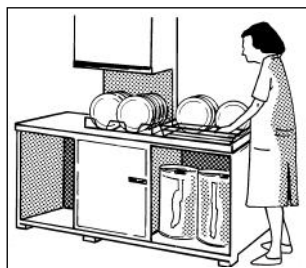
Appearance	Pale Straw coloured liquid.
Packaging Colour Code:	Red ends, Orange and Red printed containers
Packaging	10 litre drums and 2 x 5 litre cartons
COSHH Classification	Irritant
pH at usage concentration	10.5 ±0.5
Flash point	Non flammable
Precautions	Irritant Not recommended for use on aluminium, silver or silver plated utensils.
Environmental consideration	Product is above 98% biodegradable

APPLICATION

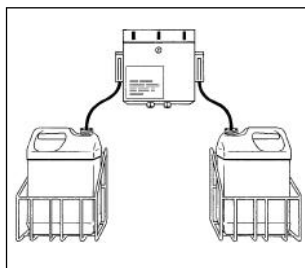
LT Sanitizer and Tannin Remover destroys tannin deposits instantly. As normal detergents have to be used at higher concentrations to remove tannin deposits, the introduction of LT Sanitizer and Tannin Remover into the dishwashing machine enables conventional detergents to be used at lower concentrations. LT Sanitizer and Tannin Remover costs approximately 1/3 that of normal detergent so substantial reduction in total detergent costs is found. As LT Sanitizer and Tannin Remover is also a powerful germicide, dishwashing machines which are normally operated at high temperatures to effect sanitizing can be run at much lower operating temperature resulting in a considerable saving in energy costs. LT Sanitizer and Tannin Remover is also used as the sanitizer on low energy dishwashing machines.

CLEANING PROCEDURE

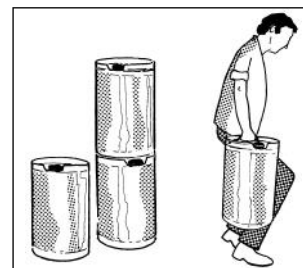
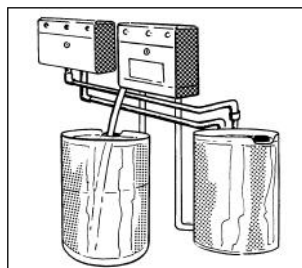
LT Sanitizer and Tannin Remover must be used in conjunction with a balanced dishwashing detergent. Dishwashing machines of the multi-tank e.g. flight type will benefit by the use of LT Sanitizer and Tannin Remover. The product is injected into the dishwashing machine automatically by control equipment supplied on free loan by Dishwashers Direct. The recommended dosage is dependent on the volume of water passing through the machine but a level of LT Sanitizer and Tannin Remover as low as 200 ppm to 500 ppm gives effective tannin control. The concentration used, recommended injection sequence, and operating temperatures, are determined individually by a representative of our technical staff.



ITEM TO BE CLEANED



METHOD



SAFE HANDLING

COMMERCIAL & INDUSTRIAL
DISHWASHERS | **DIRECT**

This product is for commercial use only and not for sale to the general public.

Deep Furrow Avenue, Carlton, Nottingham, NG4 1RS, UK Tel 01159 613720 Fax 01159 119247