INTACHEM
Solution Technology

Technical Data Sheet For:

INTACHEM ™

LC500

Article No.
9059

Description:
Limestone cleaner 500 and precast concrete cleaner

Product Description:
LC500 is a pale yellow, stable liquid, which has been formulated to clean dirt, hydrocarbon and sulphurous deposits off limestone, marble and precast concrete. None of the substances in LC500 will cause staining of the stone and the formulation gives good wetting out, suspension and emulsification of the impurities so that they are more readily removed from the pores of the stone instead of adhering. By keeping the pores in the stone open and permitting it to breathe, damage arising from trapped dampness, which can cause fracture of the stone and face shaling, is reduced.

How to use the product:
When cleaning limestone, the stone should first be pre-rinsed with high pressure water—1000PSI 70 BAR minimum—followed by an application of LC500. It is necessary to use our Limestone Cleaner (see data sheet) to remove the heavy black deposits, prior to using LC500. Apply by brush or spray starting at the top and after a dwell time of approx. five minutes (no longer than 15 minutes) rinse off with high pressure water. If LC500 is allowed to remain on the limestone, marble or precast concrete for more than three minutes a white film will appear. This is normal. The film can be rapidly removed by concentrating the high pressure water spray on it.

General Safety Precautions:
Although LC500 will not damage glass, paintwork or aluminium or normal damage paintwork either, it is an industrial strength cleaner containing weak acid and protection of operatives and the public should be taken.

Operatives using LC500 should wear eye protection and rubber gloves. Although burns from the product are unlikely, skin irritation can occur from splashes and so any splashes on the skin and clothing should be treated immediately by flushing with clean water. A mild eye rinse containing sodium bicarbonate can also be used. Normal precautions should be observed to prevent the spray or splashes from the product contacting vehicles or members of the public.

Plants which have been accidentally splashed, should be washed down to prevent prolonged contact damage to the leaves and plant structure. Containers of LC500 should be stored in a secure place away from public contact and kept closed when not in use. Empty containers should be washed out after use, prior to disposal.

Ecology:
This product is completely biodegradable. The effluent, if washed into the soil, will break down rapidly.

Safety Notes:

1.	Always store containers in secure conditions.	
2.	Keep containers closed when not in use.	
3.	COSHH Data:	Limestone Cleaner LC500
4.	Solubility:	Totally soluble in water
5.	S G:	Between 1.030—1.075 at 20º
6.	pH Value:	Approx. 2
7.	Hazard classification:	Non hazardous under COSHH regulations
8.		Graded CORROSIVE by us as an additional safety aspect
9.	Flammability:	Non flammable
10.	Fume Hazards:	None
11.	Other dangers:	Do not mix with Alkutex Algae Remover (forms dangerous gas)
2.	Handling precautions:	Wear Body and eye protection
3.	First Aid—Skin	Wash splashes with clean soapy water
4.	First Aid—Eyes	Wash thoroughly with clean water
5.	First Aid—Ingestion	Drink copious amounts of milk
6.	Spillages:	Dilute with large quantity of water/Cover with soil/sand
7.	Disposal:	Ensure adequate dilution before dilution into drains
8.	NEVER leave container full or empty with the public may come into contact with them.	
9.	ALWAYS fill containers with water before disposing of them.	

Important Notice:
The statements above are compiled from our field of production and according to the latest technological developments and application techniques received by us. Since application and working are beyond our control, no liability of the producer (or its agents) can be derived from contents of the information sheet or additional correspondence. All statements made in addition to this sheet must be confirmed in writing by the producer (or its agents). In all cases our general conditions of sale are valid. This data sheet was published 10/10/2005 and supersedes any previous edition.

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1. IDENTIFICATION OF SUBSTANCES, PREPARATIONS AND COMPANY:

Name of Preparation:	LC500
Supplier:	IntaChem, 1 Irwin Drive, Nottingham NG6 7BJ

2. COMPOSITION/INFORMATION ON INGREDIENTS:

Composition:	Classified as HAZARDOUS by CHIP for supply and carriage
Contains:	(1) 10-30% w/w Hydroxyacetic acid Corrosive Symbols C (2)2 Butoxy Ethanol 1-5% (25ppm max exposure limits) Symbols for supply/Conveyance—Corrosive

3. HAZARDS IDENTIFICATION:

LC500 presents hazards to operators if not used correctly as hydroxyacetic acid is corrosive to skin and eyes. Causes burns. LC500 presents little ecological hazard due to the large amounts of rinse water used in normal operations. Always consult local water authority and local council before disposal of waste water debris.

4. FIRST AID MEASURES:

Care should be taken to avoid contact with eyes and skin. If splashes occur the following procedures should be adopted: -

(a) Wash all affected areas with liberal quantities of water for at least one minute.
(b) Remove all contaminated clothing.

EYES—Irrigate with water for 15 minutes ensuring water bathes the visible surface of the eyeball. Seek immediate medical attention. INGESTION—Wash mouth and throat with lots of water repeatedly. Then drink copious water. Do not give emetics. Seek immediate medical attention.
SKIN—Wash off with copious water. Remove contaminated clothing. Seek immediate medical attention. INHALATION—remove to fresh atmosphere. Treat as for ingestion.

5. FIRE FIGHTING PROCEDURES:

LC500 is not flammable itself.

6. ACCIDENTAL RELEASE MEASURES:

Always prevent skin and eye contact. Hose away small spillages to foul sewer or absorb with sand/ granules.
For larger quantities, if water is not available, slowly cover with soil or sand. Dispose of separately via authorised waste contractor. See also Exposure Controls and Personnel Protection.

7. HANDLING & STORAGE:

This data sheet should be kept prominently in the drivers cab when the chemical is being transported and also available to all operatives working on site with it. Ensure all information in this data sheet is read and fully understood before using the product. Do not allow the concentrated or dilute preparation to come into contact of eyes or skin. Wear full protective clothing: PVC overalls, acid-gloves, face shield and rubber footwear (not sportswear). Use with care. Only to be used under direction of experienced operatives. Avoid inhalation of mists or fumes when using this product on stonework. Use cold only.

A COSHH assessment is necessary for this preparation. Operators must be aware of the acidic nature of this preparation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

ENGINEERING CONTROLS—Ensure that both the operatives carrying out the stone cleaning and general public do not come into contact with the concentrated product or wash water by following the procedures (close sheeting) outlined in BS8221 Code of Practice for the Cleaning of Stone and Masonry.

Respiratory protection is not normally required as a full face visor incorporated into plastic wet suit Is adequate for stone cleaning purposes when rinsing is carried out. Hands must always be protected by PVC gauntlet type ensuring no gaps between the protective suit and gloves. Wear full protective suit, rubber boots in addition to PVC and full face shield.

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Pale yellow liquid
pH:	2
Boiling Point:	100ºC
Melting Point:	Minus 5ºC
Flash Point:	Non flammable
Specific Gravity:	1.05
Solubility in H2O:	Soluble in all proportions
Viscosity:	Water thin

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10. STABILITY & REACTIVITY:
Product is stable at normal ambient temperatures. Always use cold. Avoid contact with the following: oxidising agents, such as sodium hypochlorite or nitrates (Algae-Rem), cyanides and sulphides.

Avoid use on sensitive metals such as cadmium, magnesium etc. Test small, isolated area prior to use.

If accidentally heated to decomposition, fumes of hydroxyacetic acid (exposure limit 10mg/m3 and 2 butoxyethanol, exposure limit 25ppm) are produced.

11. TOXICOLOGICAL INFORMATION:
LC500 is corrosive to skin and eyes and if swallowed due to its hydroxyacetic acid content. Oral LD50 rat greater than 4000mg/kg

ACCIDENTAL INGESTION—Causes nausea, diarrhoea and gastro intestinal tract irritation and burning.

12. ECOLOGICAL INFORMATION:
The use of LC500 provides little ecological hazard as all organic detergents are fully biodegradable. Experience has shown that when a stone surface is washed in the manner recommended the acidic residues are not considered an ecological hazard.

Should the concentrated product by accident be spilled into water courses, carry out previously detailed procedure for handling general spillage. Inform immediately the local water authority.

13. DISPOSAL CONSIDERATIONS:
Small quantities should be hosed away with copious water to foul sewer. Larger quantities should be absorbed with sand, granules or soil and the solid residue disposed of in an approved manner. When empty, containers should be filled with water, rinsed clean and emptied to foul sewer. Containers may then be disposed via solid waste.

14. TRANSPORT INFORMATION:
LC500 is classified as Corrosive for conveyance.

Transport:	UN No 1760 Corrosive Liquid, Toxic NOS
Carriage:	Primary Hazard: Corrosive
Packaging:	Packaging Group III

15. REGULATORY INFORMATION:
R&S Phrases
R34—Causes Burns
S26—In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.
S36/37—Wear suitable gloves and eye/face protection.
S45—In case of accident or feeling unwell show this data sheet &/or product label to your doctor.

Refer to use instructions for building cleaning as detailed in BS6270 Code of Practise—Cleaning of Stone and Masonry. All relevant procedures under the Health & Safety at Work Act and the Control of Substances Hazardous to Health regulations (COSHH) must be observed.

Prior to commencement of work a complete written COSHH assessment must be carried out so that all personnel are aware of the handling precautions and operations necessary with this preparation. Possession of this data sheet does NOT constitute users own assessment of risk as required by COSHH, but will form the basis of such assessment.

16. OTHER INFORMATION:
Training Advise—As LC500 contains corrosive acid, full training in the use of this preparation must be given to operators to ensure they are aware of both health and safety precautions and operating procedures.

Detailed advice on building cleaning methods are provided in the IntaChem product data sheet and BS8221 Code of Practice—Cleaning of Stone & Masonry. These bulletins must be read in conjunction with this safety data sheet—before the operation starts!

Recommended Uses and Restrictions—Use specifically for the removal of carbon and sulphur deposits from limestone, marble, precast concrete etc. LC500 may also be used to neutralise alkali degreasants such as HD400 after masonry cleaning. LC500 is safe for use on anodised aluminium.