



MATERIAL SAFETY DATA SHEET

DESCALER DL 121

Portable Air Conditioner

Issued; 21 October 2011

DESCALER DL



1. A specific product for the periodic cleaning of portable air conditioners. It quickly removes accumulations and scale of an organic nature without effecting the appliance.

1.1 Identification of the substance or preparation

Product code: 121
Product name: DESCALER FOR PROFESSIONAL USE

1.2 Use of the substance/preparation

Description/Use: Descaler

1.3 Identification of the Company

Company name: Italchimes s.r.l.
Address: via Bottenigo 139
City and country: 30175 Marghera (VE)
ITALY
tel. +39 041/932853
fax +39 041/929929

1.4 Emergency telephone number

For urgent inquiries: DeLonghi Australia 1800 126 659

1.5 Other information

E-mail: info@italchimes.it - Website: www.italchimes.it
Delonhi@delonghi.com.au

2. Hazards identification

2.1 Classification of the substance/preparation

This preparation has been classified as hazardous in accordance with the current provisions of directives 67/548/EEC and 1999/45/EC and subsequent amendments and modifications. The preparation therefore requires a Safety Data Sheet that conforms to the provisions of regulation (CE) 1907/2006 (REACH) and subsequent amendments.

Any additional information regarding health and environmental risks is reported in sections 11 and 12 of this Safety Data Sheet.

Hazard symbols:

Risk Phrases (R): The c classification of the preparation, characterized by an extreme pH value, is based on the results of a validated in vitro test as required in paragraph 3.2.5 of attachment VI of directive 67/548/EEC and subsequent amendments.

2.2 Hazards identification

IRRITATING TO EYES.

3. Composition/Information on ingredients

Contains:

Product name	Concentration (C)	Classification
SULPHAMIC ACID	8 <= C < 9	R52/53
Cas. No. 5329-14-6		Xi R36/38
CE No. 226-218-8		
Index No. 016-026-00-0		
CITRIC ACID	5 <= C < 6	Xi R37/38
Cas. No. 77-92-9		Xi R41
CE No. 201-069-1		

The full text of the risk phrases (R) is reported in section 16 of this document.

4. First aid measures

EYES: Rinse eyes immediately with plenty of water for at least 15 minutes. Immediately consult a physician.

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SKIN: After contact with skin, wash immediately with plenty of water. Take off immediately all contaminated clothing. Consult a physician if the irritation persists. Wash contaminated clothing separately before reusing them.

INHALATION: When used under normal conditions, there is no risk of inhalation. If the fumes are inhaled, take the person to fresh air. If breathing is difficult, immediately consult a physician.

INGESTION: Immediately consult a physician. Do not induce vomiting (risk of suffocation from froth). Never give anything by mouth to an unconscious person or that is not authorised by a physician.

5. Fire fighting measures

Allow containers to cool in order to avoid product decomposition and generation of substances which may be dangerous to the health and for safety reasons. Wear full fire gear at all times.

6. Accidental release measures

Absorb the spill with inert absorbent material (sand, dirt, etc.). Neutralize and remove as much of the treated mass as possible; wash away the remaining material with plenty of water.

7. Handling and storage

Make sure that equipment is available for cooling the vessels, to prevent the danger of overpressurization and overheating in the event of a nearby fire.

8. Exposure controls/personal protection

8.1 Exposure limits

N.D.

8.2 Exposure controls To keep exposure low, use personal protection devices that are suitable for the specific type of work, such as: mask for the nature of the product, safety glasses, gloves and coveralls. Do not eat, drink or smoke when using this product; wash hands well with soap and water before meals and after the work shift.

9. Physical and chemical properties

Colour	Colourless
Odour	Characteristic
Physical form	Liquid
Solubility	Soluble in water
Storage temperature	Stable from 5 to 35° C
Viscosity	n.r.
Vapour density	N.D.
Evaporation rate	N.D.
Combustion properties	N.D.
Partition coefficient n-octanol/water:	N.D.
pH	1.5
Boiling point	N.D.
Flash point	>61°C
Explosive properties	N.D.
Vapour pressure	N.D.
Specific weight	1.06 Kg/l
VOC (Directive 1999/13/EC)	0
VOC (volatile carbon)	0

10. Stability and reactivity

The product is stable under normal conditions of use and storage. In the event of thermal decomposition or fire, vapours may be released that are potentially dangerous to your health.

SULPHAMIC ACID: thermal decomposition can give off ammonia and toxic nitrogen oxide and sulphur vapours. Keep in their original containers, away from bases.

The finished product is stable for no less than 6 months when stored at normal conditions.

11. Toxicological information

Acute effects: contact with the eyes can cause irritation; the symptoms may include: reddening, oedema, pain and tearing. The inhalation of the vapours can cause moderate irritation of the upper respiratory tract; contact with the skin can cause moderate irritation.

Ingestion can cause medical problems, including abdominal pains with burning, nausea and vomiting.

SULPHAMIC ACID: oral LD50 (mg/kg) 1450 (RAT)

CITRIC ACID: oral LD50 (mg/kg) 3000 (RAT)

12. Ecological information

Follow good working practices when using this product and do not litter. Inform the competent authorities should the product reach waterways or sewers or contaminate soil or vegetation.

13. Disposal considerations

Consider the possibility of burning the product in a suitable incinerator. Acidic or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible.

If the waste is in solid form, it can be disposed of in a landfill in accordance with the technical regulations required by the current authorities. This is also valid for empty containers after they have been properly rinsed. Never dispose of this product in drains or in surface or underground waters.

14. Transport information

Transport must be done by authorised hazardous material transport vehicles in accordance with the provisions of the current edition of the A.D.R. Agreement and any applicable national provisions.

Transport must be done in the original packages and, in any case, in packages that are made of materials that cannot be attacked by the contents and are not susceptible to occur with these dangerous reactions. Employees loading and unloading the hazardous merchandise must receive proper training on the risks associated with the product and on the procedures to adopt in case of an emergency.

Transport by road or rail:

ADR/RID class:

ADR 8

UN: 3264

Packing Group: III

Label: 8

Keller no.: 80

Technical name: Corrosive inorganic liquid, acid, n.o.s. (SULPHAMIC ACID)

15. Regulatory information

Xi IRRITANT



R36 IRRITATING TO EYES.

S25 AVOID CONTACT WITH EYES.

S26 IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

The classification of the preparation, characterized by an extreme pH value, is based on the results of a validated in vitro test as required in paragraph 3.2.5 of attachment VI of directive 67/548/EEC and subsequent amendments.

Danger labeling under regulations 67/548/EEC and 1999/45/EC and subsequent amendments and modifications.

Workers exposed to this hazardous chemical agent must undergo a health check in accordance with the provisions of article 72 of Italian legislative decree no.25 of 2 February 2002

WATER 87.00 %

16. Other information

Text of the risk phrases (R) reported in section 3 of this document:

R36/38	IRRITATING TO EYES AND SKIN.
R37/38	IRRITATING TO RESPIRATORY SYSTEM AND SKIN.
R41	RISK OF SERIOUS DAMAGE TO EYES. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN
R52/53	THE AQUATIC ENVIRONMENT.

GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/CEE and subsequent amendments and modifications (technical modification XXIX)
3. Regulation (CE) 1907/2006 of the European Parliament (REACH)
4. The Merck Index – 10th Edition
5. Handling Chemical Safety
6. Niosh -Registry of Toxic Effects of Chemical Substances
7. INRS -Fiche Toxicologique (toxicological sheet)
8. Patty -Industrial Hygiene and Toxicology
9. N.I. Sax -Dangerous properties of Industrial Materials – 7th Ed., 1989

Note to users: The information contained in this data sheet is based on the knowledge available to us at the date of the last version. It is the responsibility of the user to determine the appropriateness and applicability of this information in relation to their specific use of the product.

This document must not be interpreted as a guarantee of any specific property of the product. The use of this product is not subject to our direct control, therefore users must, under their own responsibility, comply with the current health and safety laws and regulations. The manufacturer is relieved from any liability arising from improper uses.

With respect to the previous version, modifications were made to the following sections: 14