

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006

PAL 4

1. IDENTIFICATION OF SUBSTANCE/MIXTURE AND COMPANY

1.1 Product identification

Name of product : **PAL4**
Description of use : Alkaline detergent
Type of product : liquid

1.2 Pertinent and non-pertinent uses of substance/mixture

Pertinent uses : alkaline detergent for stones
Non-pertinent uses : no data available

1.3 Information about the supplier of safety data sheet

LANTANIA SRL
VIA GRUMELLO 45B
24127 BERGAMO – ITALIA
PH : +39-035-2650943

1.4 Emergency phone number

Emergency phone number : Centre Antipoison

2. RISKS

2.1 Classification of substance and mixture

Classification according to Regulation EC n. 1272/2008

The product is classified as dangerous

Classification : H302,H312, H332,H315,H319

Dangers for human health : irritant for skin and eyes

See chapt.16 for complete text of H sentence

See chatp.11 for additional info on health

Indications of danger : harmful if swallowed
causes skin irritation
causes severe eyes damages

Indication of precaution

Prevention : wear protective gloves, protection for eyes and face. Do not drink or smoke during use, well wash hands after use, wear mask

Disposal : do not waste residues in the environment

2.2 Labelling

Risk symbols :



Danger symbols : H 302 corrosive

Risk sentence : H 312 causes skin irritation
H 332 causes severe eyes irritation

Prudency : H 315 causes eyes irritation
H 314 causes severe skin damages and eyes injury

Additional info on labelling : not applicable
H 319 causes severe eyes irritation

Prudence advices:

P304+340 in case of inhalation bring the person out in the air and keep in relax position, making breathing easier. P280 wear suitable protective clothes and protect eyes/face.

P 301-P310 IN CASE OG INGESTION: immediately contact the doctor. P305-P351-P338 in case of contact rinse carefully for

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006

PAL 4

Additional info:

some minutes. Take eventual contact lens if possible. Rinse again. P-302-P352 in case of contact with the skin wash carefully with plenty of water with soap and water.
not available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<i>Ingredient</i>	<i>Identifier CAS Number</i>	<i>Identifier CE number</i>	<i>% w/w</i>	<i>Classification according to Regulation 1272/2008</i>
Sodium idrato	1310-73-2	215-185-5	<2%	H315
Butilglicole	111-76-2	203-905-0	<40%	H312-H332 H302 H319 H315

4. FIRST AID MEASURES

4.1 Description of first aid measures

Contact with the skin : Remove dirty shoes and clothes then safely dispose them. Wash the area with water and soap. Immediately call a doctor if irritation, swelling or redness appear and persist.

Contact with eyes : Rinse with plenty of water for at least 15 minutes. Contact the specialist un case of persistant irritation.

Inhalation: Bring the person out to air. In case of difficult breathing call the doctor.

Ingestion: Immediately call a doctor. Induce vomit only if foreseen by the doctor. Do not supply anything of not authorized by the doctor,

4.2 Main symptoms and effects both acute and delayed

See chap. 11

4.3 Indications on the need to contact a doctor and special treatments.

Follow doctor's instructions

5. FIREFIGHTING MEASURES

The product is not flammable

6. ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipments and procedures in case of emergency.

Remove any ignition or heating source (cigarettes, flames, sparks, etc) in the concerned area. In case of solid product avoid the formation of powder, spraying some water unless there are specific notifications.

In case of powders dispersed in the air or vapours, use suitable breathing protection.

Stop the discharge if there's no danger. Do not handle damaged containers or the discharged product without wearing suitable protective clothes.

For any information regarding risks for environment and health, breathing protection, ventilation and individual protective means, please refer to other chapt. in this data sheet.

6.2 Environmental precautions

Do not let the product pour down drains, superficial waters, water-bearing stratum and border areas.

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006

PAL 4

6.3 Methods and materials to collect and clean

Absorb the discharged product using absorbing inert material. (sand, powder) Collect most of the residual product using collecting containers. Remove the residual using water jets if there are not opposite notifications. Well air the ambient concerned by the discharge. Product disposal must be performed according to chapt. 13.

7. HANDLING AND WAREHOUSE

7.1 Precautions for a safe handling

Wear gloves, apron, glasses and boots

7.2 Conditions for a safe warehouse

Keep container well sealed and in a dry place, far from free flames or any other ignition sources.

7.3 Specific final uses

Wax remover

8. EXPOSURE CONTROL – PERSONAL PROTECTION

8.1 Limits of exposure

Sodio idrato: : TWA 2mg/ m³

8.2 Exposure control

Technical controls : handle inside ventilated areas.

Individual protection : wear gloves and glasses, in normal use conditions no vapor is generated

Environmental protection : avoid product dispersion in sewer

Since the use of suitable technical measures should be first than personal protection equipment, it's necessary to ensure a proper ventilation through the use of a good aspiration device or the polluted air discharge .

If these operations do not keep product concentration under minimum exposure values, it will be necessary to wear a suitable breathing apparatus protection.

During use, refer to danger label for more details.

During the choice of personal protective equipment, eventually ask an advice to the chemical substance supplier.

Personal protective clothes must be in compliance with the rules here below indicated:

HANDS PROTECTION

Protect hands using working gloves, II category. (ref. Directive 89/686/CEE and Rule EN 374) like: PVC, neoprene, nitrile or equivalent. The final choice of the gloves must consider: degradation, breaking time and permeability. In case of mixtures the gloves resistance must be checked before using, it is not foreseeable. Gloves have a wear and tear term that depends on exposure time.

EYES PROTECTION

Wear sealing protective mask (ref. Rule EN 166)

SKIN PROTECTION

Wear long sleeves working clothes and shoes for professional use, II category. (ref. Directive CEE and EN 344 rule). Well wash with plenty of water after taking protective clothes off.

BREATHING PROTECTION

In case of the overcoming of the limit value of one or more substances present in the product, wear a mask with filter A type or the universal type, whose class (1,2 or 3) will be chosen according to the use. (ref. EN 141 Rule).

The use of breathing apparatus protections, like mask with filter for organic vapours and powders/fog, it's compulsory in absence of technical measures to limit the worker exposure. The protection given by mask is limited anyway.

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006

PAL 4

If the substance is odourless or in case of emergency (unknown time of exposure or the oxygen level in the ambient is lower than 17%) wear a compressed air auto-breather at open circuit (ref.Rule EN 137) or a respirator with external air outlet for the use with whole mask, semi-mask or nozzle. (Ref.Rule EN 138).

If there's the risk to get squirts or sprinkles due to the type of work performed, it's necessary to foresee a suitable mucous protection (mouth, nose, eyes) in order to avoid accidental absorptions

9. CHEMICAL – PHYSICAL PROPERTIES

9.1 Information on basilar chemical – physical properties

Status	: liquid
Color	: light red
Odor	: typical
Odor threshold	: no data
pH	: >12
boiling point	: not applicable
fusion point	: not applicable
Flashing point	: not applicable
Ignition temperature	: not determined
Vapor tension	: not determined
Solubility	: soluble in water

10. STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction in normal use conditions

10.2 Chemical stability

The product is chemically stable in normal use and warehouse conditions. It is exothermically active.

10.3 Possibility of dangerous reactions

No relevant dangerous reaction

10.4 Conditions to avoid

Avoid overheating, avoid contact with wood and light metals.

10.5 Non-compatible materials

In case of thermal decomposition gasses and vapors dangerous to health may occur.

11. TOXICITY INFORMATION

Inhalation acute toxicity	: LC50/4h 2 mg/l (ratto)
Oral acute toxicity	: LD50 470 mg/kg (ratto)
Contact with skin	: LD50 220 mg/kg (ratto)
Contact with eyes	: irritant
Cancerogenicità	: no data available
Mutagenicità	: no data available
Teratogenicità	: no data available

The introduction of little quantities of product in the breathing apparatus may cause vomit, bronco-pneumonia or pulmonary edema.

Due to continuous exposure the product may bring to a skin degreasing, causing cracks and dryness.

Sodio idrato

Acute oral toxicity: : LD50 1.350 mg/kg (ratto)

SAFETY DATA SHEET

According to Regulation (CE) 1907/2006

PAL 4

Contact with skin: LD 50 1.350 mg/kg (ratto)

12. ECOLOGICAL INFORMATION

There's no information on the product, so use it according to good working procedures, do not waste it in the environment. Absolutely avoid to waste product in the ground or drains. Call authorized companies if the product reaches water drains or in case of ground or flora pollution. Follow all the measures to reduce at the minimum level the effects on water drains.

12.1 Toxicity	:	no data available
12.2 Persistence and biodegradability	:	no data available
12.3 Bioaccumulabilità	:	no data available
12.4 Mobility on the ground	:	no data available
12.5 Results of the PBT and vPvB evaluation	:	no data available

13. DISPOSAL

Methods of waste treatments	:	During usual application no waste is generated.
Methods of container treatment	:	Make sure the container is empty and re-use if possible

14. TRANSPORT

ADR not applicable
IMDG not applicable
IATA not applicable

15. REGULATION

15.1 Regulation about health, safety and environment

- Regulation CE n. 1907/2006 (REACH), Annex XIV list of substances subject to authorization- substances SVHC: not present listed substances
- Annex XVII: listed substances are not present
- Sanitary checks
- The staff working with this kind of product must be subject to sanitary checks as foreseen in the Art. 41 of D.Lgs. 81 dtd April 9 2008, unless the risk for the worker is regarded as not relevant, as foreseen in the Art.224 comma 2.

15.2 Evaluation of chemical safety

No safety evaluation has been draft for mixture and substances contained.

16. ADDITIONAL INFORMATION

16.1 Classification according to Regulation CE 1272/2008

Indications of danger:

H290 corrosive
H315 causes skin irritation
H319 causes severe eyes irritation

Cautions:

P262 avoid contact with eyes, skin or clothes
P270 do not eat, drink or smoke during use
P280 wear suitable protective clothes and protect eyes and face.