



SAFETY DATA SHEET

1 - IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Name: ANIOS D.L.H..
Product code: 164000.

Company/undertaking identification:

Registered company name: Laboratoires ANIOS.
Address: Pavé du Moulin.59260.LILLE - HELLEMES.FRANCE.
Telephone: + 33 (0)3 20 67 67 67. Fax:+ 33 (0)3 20 67 67 68. Telex:.

Emergency telephone: + 33 (0)1 45 42 59 59.

Association/Organisation: INRS.

Use of the substance/preparation:

Liquid detergent for instrument cleaning in automatic washing machine

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Full text of risk phrases appearing in section 2: see section 16.

Hazardous substances present on their own:

(present in the preparation at a sufficient concentration to give it the toxicological characteristics it would have in a 100% pure state)
INDEX 011-002-00-6 CAS 1310-73-2 CE 215-185-5 SODIUM HYDROXIDE | Concentration $\geq 2.50\%$ and $< 10.00\%$. Symbol: C R: 35

Other substances representing a hazard:

No known substance in this category present.

Substances present at a concentration below the minimum danger threshold:

No known substance in this category present.

Other substances with occupational exposure limits:

No known substance in this category present.

3 - IDENTIFICATION OF HAZARDS

This product is not classed as flammable. Refer to the recommendations regarding the other products present on the site
Possibility of serious corrosive effects.

Other data:

In water the solution is a strong base, which reacts violently with acids and is corrosive.
The hazard indication "Corrosive" is linked to the cutaneous tissue destructions in case of contact of the product with the skin, but does not systematically imply a corrosive property against materials and metals.

4 - FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing in an unconscious person.
Reminder: any unconscious person must be placed in the lateral recovery position.

In the event of exposure by inhalation:

Move the person away from the place of exposure and take him/her outside.
In the event of respiratory problems (e.g. heavy coughing):
Put the person in a half-seated position, with the torso raised ; keep the person warm and calm.
Call a doctor quickly.

In the event of splashes or contact with eyes:

If applicable, remove contact lenses.
Wash thoroughly with soft clean water for 15 minutes, holding the eyelids open.
Take care not to introduce rinsing water in the undamaged eye.

Additional treatment to be provided immediately in an eye clinic or by an ophthalmologist.
Continue rinsing until medical advice is obtained.

In the event of splashes or contact with skin:

If possible, wear rubber gloves when giving first aid.

Remove all contaminated or stained clothing immediately. Do not use them again until they have been decontaminated.

Rinse immediately and thoroughly with water.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing:

If swallowed accidentally, do not allow to drink, do not induce vomiting and transfer to hospital immediately by ambulance. Show the label to the doctor.

5 - FIRE-FIGHTING MEASURES

The product itself does not burn.

Suitable extinguishing media:

Any extinguishing agents are authorized: foam, sand, carbon dioxide, water, powder.

Special protective equipment for fire-fighters:

Use autonomous insulating breathing apparatus and a full protective suit.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid any contact with the skin and eyes.

Consult the safety measures listed under headings 7 and 8.

Take care not to skid.

Environmental precautions:

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

Use drums to dispose of waste recovered in accordance with applicable regulations (see heading 13).

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Methods for cleaning up:

If a large amount has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Absorb any spilled product using absorbent materials and sweep away or remove with a shovel. Wash the contaminated surface thoroughly with water.

Collect up and dispose of in drums. Wash the contaminated surface thoroughly with water.

Do not collect the product for re-use.

7 - HANDLING AND STORAGE

The regulations relating to storage premises apply to workshops where the product is handled.

Handling:

Product for external use - do not swallow.

Avoid all contact with skin, eyes and clothes.

Fire prevention:

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal safety, see §8.

Observe precautions stated on label and also industrial safety regulations

Product must not come into contact with the skin and eyes

Provide safety showers and eye washes in workshops where the product is handled constantly

Storage:

Store between + 5 °C and + 35 °C in a dry, well ventilated place

Keep ONLY in the original container

Do not use after the expiry date mentioned on the packaging.
Keep out of the reach of children

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Use personal protection equipment as per Directive 89/686/EEC.

Technical measures:

Ensure the rooms are well-ventilated. Atmospheric concentrations at the workplace must not exceed the limit values given for normal conditions of use.

Exposure limit values per INRS ND 2098-174-99 and ND 2114-176-99:

France	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP N°:
1310-73-2	-	2	-	-	-	-
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
1310-73-2	-	-	-	-	-	
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
1310-73-2	-	2	-	-	-	P

Exposure limit values (2003):

UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
1310-73-2	-	2 mg/m3	-	-	-

Respiratory protection:

In case of insufficient ventilation, wear an appropriate breathing apparatus.
Particularly universal breathing apparatus, ABEK type

Hand protection:

Where there is a risk of contact with the hands, suitable gloves must be used
Neoprene or nitrile gloves are particularly recommended.
Gloves must be replaced immediately if they show signs of wear and tear.

Eye and face protection:

Avoid contact with the skin and eyes
Provide personnel with gloves, face masks and safety goggles.
Provide eye washes in workshops where the product is constantly handled

Skin protection:

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.
For further information, see § 11 of S.D.S. - Toxicological information.
Change wet and dirty work clothes immediately.

HEALTH MEASURES:

Do not eat, drink or smoke during use.
Wash hands each time after handling.
After each use, systematically wash all personal protective equipment.

9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical state: fluid liquid

Important health, safety and environmental information:

pH of the substance or preparation: strongly basic.
When a pH measure is possible, it has a value of: not stated.
Boiling point/boiling range: not specified.
Flash point interval: not relevant.
vapour pressure: not specified.
Density: > 1
Density: 1.07
water solubility: Dilutable.

Other information:

melting point/melting range: not specified.
Self-ignition temperature: not specified.
Decomposition point/decomposition range : not specified.
Colour: yellowish
Odour: Weak

10 - STABILITY AND REACTIVITY

The preparation is stable at the handling and storage conditions recommended per § 7 of the safety data sheet,

Conditions to avoid:

Do not mix with other products.

Materials to avoid:

Strong acids.

Hazardous decomposition products:

At high temperatures, dangerous decomposition products may be produced, such as fumes, carbon dioxide and carbon monoxide, nitrogen oxide.

11 - TOXICOLOGICAL INFORMATION

In the event of exposure by inhalation:

Sore throat, coughing, shortness of breath, respiratory failure

Symptoms of respiratory complications (pulmonary oedema) may only appear after several hours.

In the event of swallowing:

The symptoms are: burns to the upper digestive and respiratory tracts, abdominal pain, vomiting of blood, serious lesions of fragile tissue and risk of perforation.

In the event of splashes or contact with skin:

Severe skin irritation, burns, redness, dermatitis, necrosis of tissue.

In the event of splashes or contact with eyes:

Possibility of extensive damages to eyes if not quickly washed (serious ocular lesions are often observed in the event of prolonged contact with a solution with a pH higher than or equal to 12).

Burns, characterized by discomfort or pain, excessive blinking, lacrimation and redness, swelling of the conjunctiva.

12 - ECOLOGICAL INFORMATION

No ecological data on the product itself is available.

The product must not be allowed to run into drains or waterways.

13 - DISPOSAL CONSIDERATIONS

Do not pour into waterways.

Do not pour large quantities of the product (pure or diluted) into the drains.

Waste:

Recycle or discard in accordance with the legislation in force, preferably by a collector or an approved company.

Do not contaminate the ground or the water with waste, do not discard waste into the environment.

Soiled packaging:

Completely empty the container. Keep the label(s) on the container.

Hand over to an approved disposal contractor.

Codes of wastes (Decision 2001/573/EC, Directive 75/442/EEC, Directive 91/689/EEC on hazardous waste) :

18 01 06 * chemicals consisting of or containing dangerous substances

14 - TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2005 - IMDG 2004 - ICAO/IATA 2005).

UN1824=SODIUM HYDROXIDE SOLUTION

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.		
	8	C5	II	8	80	LQ22	-		
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.			
	8	-	II	1 L	F-A,S-B	-			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	
	8	-	II	809	1 L	813	30 L	A3	
	8	-	II	Y809	0.5 L	-	-	-	

15 - STATUTORY INFORMATION

This preparation was classified in compliance with the directive known as <All preparations> 1999/45/EC and its adaptations
In addition directive 2004/73/EC with the 29° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.
This product is not classed as flammable.

Preparation classification:

Corrosive.



Contains:

011-002-00-6 SODIUM HYDROXIDE

Particular hazards associated with the preparation and safety recommendations:

R 35	Causes severe burns.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 36/37/39	Wear suitable protective clothing, gloves and eye/ face protection.
S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S 27	Take off immediately all contaminated clothing.
S 2	Keep out of reach of children.

16 - OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties

It is recommended that the information contained in this safety data sheet is provided to the users, if necessary in an appropriate form.

This information relates to the specifically designated product and may not be valid in combination with any another product. The product must not be used for applications other than those specified in heading 1 without having first obtained written handling instructions.

Full text of risk phrases appearing in section 2:

R 35 Causes severe burns.

Labelling for contents (REGULATION (EC) No 648/2004):

- less than 5 % : phosphonates