



SAFETY DATA SHEET

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

Identification of the substance or preparation:

Name: ANIOS RN.
Product code: 193000.

Company/undertaking identification:

Registered company name: Laboratoires ANIOS.
Address: Pavé du Moulin.59260.LILLE - HELLEMMES.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:

Neutralisation liquid of alkaline residue issued from detergent agents and water, during the automatic machine washing cycle of instruments.

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 015-011-00-6 CAS 7664-38-2 CE 231-633-2 PHOSPHORIC ACID ... | Concentration $\geq 25.00\%$ and $< 50.00\%$. Symbol: C R: 34

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 corrosive effects.

Other data:

In water the solution is a strong acid, which reacts violently with bases and is corrosive.

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.
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.

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:

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

Wash the skin thoroughly with soap and water or a recognised cleaner.

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.

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:

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

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

Do NOT put any spilt product back into its original container with the intention of re-using it.

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.

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:

Keep the container tightly closed in a dry place.

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

Technical measures:

Ensure the rooms are well-ventilated (Art. R. 232-5 to R. 235-14 / Labour Code). 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°:
7664-38-2	0,2	1	0,5	2	-	-
Germany	Class:	MAK-ppm:	MAK-mg/m3:	Notes:	Notes:	
7664-38-2	-	-	-	-		
ACGIH(TLV)	TWA-ppm:	TWA-mg/m3:	STEL-ppm:	STEL-mg/m3:	Notes:	Notes:
7664-38-2	-	1	-	3	-	S

Exposure limit values per 2000/39/EC and 98/24/EC:

EC	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:
7664-38-2	-	1	-	2	-

Exposure limit values (2003):

UK/OES	TWA:	STEL:	Ceiling:	Definition:	Criterion:
7664-38-2	1 mg/m3	2 mg/m3	-	-	-

Respiratory protection:

In case of insufficient ventilation, wear an appropriate breathing apparatus.

Hand protection:

Where there is a risk of contact with the hands, suitable gloves must be used
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 an apron 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

Density:	> 1
Acid/base character of preparation:	strongly acidic.
Solubility of preparation in water:	Soluble.
Vapour tension at 50°C of volatile constituents:	not specified.
Physical state:	fluid liquid
Flash point interval:	not relevant.
When a pH measure is possible, it has a value of:	not stated.

Self-ignition temperature: not specified.
Decomposition temperature: not specified.
Melting temperature interval: not specified.
Average distillation temperature of solvents contained: not specified.

Other information:

Colour: colourless.
Odour: Weak
Density: 1.183 +/- 0.002 g/cc at 20°C.

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 bases.

Hazardous decomposition products:

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

Above 200°C, formation of phosphorus oxide

11 - TOXICOLOGICAL INFORMATION

No data is available regarding the preparation itself.

It is generally agreed that substances contained are likely to cause tissue damage in less than four hours after application to the healthy, unbroken skin of an animal.

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:

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 dispose of waste in compliance with current legislation, preferably via a certified collector or company.

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

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

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

20 01 14 * acids

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

UN1805=PHOSPHORIC ACID

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.		
	8	C1	III	8	80	LQ19	-		
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.			
	8	-	III	5 kg	F-A,S-B	-			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo		note
	8	-	III	825	25 kg	826	100 kg	-	-
	8	-	III	Y825	5 kg	-	-	-	-

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 2001/59/EC with the 28° adaptation of directive 67/548/EEC (Hazardous substances) have been taken into account.

This product is not classed as flammable.

Preparation classification:

Corrosive.



Contains:

015-011-00-6 PHOSPHORIC ACID

Particular hazards associated with the preparation and safety recommendations:

- R 34 Causes 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 2 Keep out of reach of children.
- S 27 Take off immediately all contaminated clothing.

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.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

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 34 Causes burns.