

Co.ind s.c. Registered Office Via Saliceto, 22/H 40013 Castel Maggiore (BO) IT Tel. +39 051 63 28 511 Internet: www.coind.it E-mail: coind@coind.it		<b>SAFETY DATA SHEET</b> <b>PK 481 B</b> <b>SANY GREEN DESCALER</b> <b>(BULLET)</b>
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## Safety Data Sheet dated 6/7/2017, version 1

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Mixture identification:

Trade name: PK 481 B SANY GREEN DESCALER  
 Trade code: START-UP 400231 – REFILL BOX 400241

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use:

Sanitizing and descaling action.

PROFESSIONAL USE.

Uses advised against:

Do not use for purposes other than those listed.

#### 1.3. Details of the supplier of the safety data sheet

Company:

Co. Ind. s.c.  
 Via Saliceto 22/H  
 40013 Castel Maggiore (BO) - ITALY  
 Tel. +39 051 6328511 - Fax +39 051 701152

Competent person responsible for the safety data sheet:

allertasanificazione@coind.it

#### 1.4. Emergency telephone number

Company emergency telephone number: Tel. +39 051 6328511 (h 8.00 – 17.00).

Poison centers (h24):

Ospedale Niguarda Ca' Granda di Milano Tel. +39 02 66101029.  
 Ospedale Pediatrico Bambino Gesù di Roma Tel. +39 06 68593726  
 Az. Osp. Univ. Di Foggia Tel. +39 0881 732326  
 Az. Osp. A. Cardarelli di Napoli Tel. +39 081 7472870  
 Policlinico Umberto I di Roma Tel. +39 06 49978000  
 Policlinico A. Gemelli di Roma Tel. +39 06 3054343  
 Az. Osp. Careggi U.O. Tossicologia Medica di Firenze Tel. +39 055 7947819  
 Centro Nazionale di Informazione Tossicologica di Pavia Tel. +39 0382 24444  
 Azienda Ospedaliera Papa Giovanni XXII di Bergamo Tel. +39 800883300

Poison centres of WHO Member States:

[http://www.who.int/gho/phe/chemical\\_safety/poisons\\_centres/en/](http://www.who.int/gho/phe/chemical_safety/poisons_centres/en/)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Corr. 1A, H314 Causes severe skin burns and eye damage.

Eye Dam. 1, H318 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

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No other hazards

## 2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements:

P260 Do not breathe spray.

P280 Wear protective gloves, eye and face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or a doctor.

P501 Dispose of container in accordance with local regulation.

Special Provisions:

None

Contains

PHOSPHORIC ACID

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

Ingredients (Reg. EC n.648/2004):

5-15% Anionic surfactants, amphoteric surfactants.

Perfume (LINALOOL).

## 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards


## SECTION 3: Composition/information on ingredients

### 3.1. Substances















Not applicable

### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
20 - 30 %	PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...%	Index number: 015-011-00-6 CAS: 7664-38-2 EC: 231-633-2 REACH No.: 01-	 3.2/1B Skin Corr. 1B H314

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		2119485924-24	
3 - 5 %	CITRIC ACID	CAS: 77-92-9 EC: 201-069-1 REACH No.: 01-2119457026-42	 3.3/2 Eye Irrit. 2 H319
1 - 3 %	ALKYL ETHER CARBOXYLIC ACID	EC: Polymer	 3.3/1 Eye Dam. 1 H318
1 - 3 %	ACETIC ACID, (2-BUTOXYETHOXY)-	EC: 451-650-0 REACH No.: 01-0000019096-68	 3.2/1B Skin Corr. 1B H314  3.3/1 Eye Dam. 1 H318
1 - 3 %	BETAINES, C12-14-ALKYLDIMETHYL	CAS: 66455-29-6 EC: 266-368-1	 3.2/2 Skin Irrit. 2 H315  3.3/2 Eye Irrit. 2 H319
1 - 2 %	3-METHOXY-3-METHYLBUTAN-1-OL	CAS: 56539-66-3 EC: 260-252-4	 3.3/2 Eye Irrit. 2 H319
0.5 -1.2 %	AMINES, N-C10-16-ALKYLTRIMETHYLENE DI-, REACTION PRODUCTS WITH CHLOROACETIC ACID	CAS: 139734-65-9	 3.1/4/Oral Acute Tox. 4 H302  3.2/1C Skin Corr. 1C H314  4.1/A1 Aquatic Acute 1 H400
0.5 - 1.2 %	2,2' - OXYBISETHANOL; DIETHYLENE GLYCOL	Index number: 603-140-00-6 CAS: 111-46-6 EC: 203-872-2	 3.1/4/Oral Acute Tox. 4 H302
0.1 - 0.4 %	SODIUM HYDROXIDE; CAUSTIC SODA	Index number: 011-002-00-6 CAS: 1310-73-2 EC: 215-185-5 REACH No.: 01-2119457892-27	 2.16/1 Met. Corr. 1 H290  3.2/1A Skin Corr. 1A H314  3.3/1 Eye Dam. 1 H318

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with soap and plenty of water.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

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In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

No data available for the mixture. See section 11 for symptoms and effects of the substances.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

Treat symptomatically.

## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray jet.

Carbon dioxide (CO<sub>2</sub>).

Powder.

Foam.

Extinguishing media which must not be used for safety reasons:

Water jets.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Avoid contact with skin and eyes, inhalation of vapours and mists.
- Don't use empty container before they have been cleaned.
- Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
- Contaminated clothing should be changed before entering eating areas.
- Do not eat or drink while working.
- See also section 8 for recommended protective equipment.

### 7.2. Conditions for safe storage, including any incompatibilities

- Keep away from open flames, sparks, hot surfaces. Avoid direct exposure to sunlight.
- Keep away from food, drink and feed.
- Incompatible materials:  
See paragraph 10 below.
- Instructions as regards storage premises:  
Adequately ventilated premises.

### 7.3. Specific end use(s)

- See section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

- PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2
  - OEL Type: OEL - TWA(8h): 1 mg/m<sup>3</sup> - STEL(): 2 mg/m<sup>3</sup>
  - ACGIH - TWA: 1 mg/m<sup>3</sup>, 0.25 ppm - STEL(): 3 mg/m<sup>3</sup>, 0.75 ppm

- SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2
  - TLV STEL - C 1,22 ppm - C 2 mg/m<sup>3</sup>

#### DNEL Exposure Limit Values

- PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2
  - Worker Industry: 2.92 mg/m<sup>3</sup> - Consumer: 0.73 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

- SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

- Worker Industry: 1 mg/m<sup>3</sup> - Consumer: 1 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term (repeated)

#### PNEC Exposure Limit Values

- CITRIC ACID - CAS: 77-92-9
  - Target: Fresh Water - Value: 0.44 mg/l
  - Target: Freshwater sediments - Value: 34.6 mg/kg
  - Target: Marine water sediments - Value: 3.46 mg/kg
  - Target: Soil - Value: 33.1 mg/kg
  - Target: Marine water - Value: 0.044 mg/l
  - Target: STP - Value: 1000 mg/l
  - Target: Soil - Value: 33.1 mg/kg

### 8.2. Exposure controls

- General health and safety measures

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Handle according to good industrial hygiene and safety practice, avoid contact with eyes and skin. Since the concentrated product is diluted in a closed system/process, in which the operator does not come into direct contact with the concentrated product, the use of special personal protective equipment is not required.

We always recommend the operator uses good industrial hygiene practices. Train the personnel.

Safety measures recommended for handling the undiluted product:

HAND PROTECTION Not required under normal conditions of use

EYE PROTECTION Not required under normal conditions of use

SKIN PROTECTION Not required under normal conditions of use

RESPIRATORY PROTECTION: Not required under normal conditions of use

Further to accidental bullet breakage, handle according to adequate good industrial hygiene and safety practice.

Safety measures recommended for handling the diluted product:

HAND PROTECTION In case of contact with the product, rinse hands after use. In the event of prolonged and/or repetitive use or individual sensitivity to the product, it may be appropriate to protect the hands

EYE PROTECTION Not required under normal conditions of use

SKIN PROTECTION Not required under normal conditions of use

RESPIRATORY PROTECTION Not required under normal conditions of use

Environmental exposure controls:

For information on environmental exposure controls, refer to the exposure scenarios (see Section 16 of this document).

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Appearance and colour:	pale green liquid	--	--
Odour:	characteristic	--	--
Odour threshold:	Not Relevant	--	--
pH:	1	--	--
Melting point / freezing point:	Not Relevant	--	--
Initial boiling point and boiling range:	Not Relevant	--	--
Flash point:	Not flammable	--	--
Evaporation rate:	Not Relevant	--	--
Solid/gas flammability:	Not applicable	--	--
Upper/lower flammability or explosive limits:	Not Relevant	--	--
Vapour pressure:	Not Relevant	--	--
Vapour density:	Not Relevant	--	--
Relative density:	1.21 g/ml	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	Not Relevant	--	--

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Partition coefficient (n-octanol/water):	Not Relevant	--	--
Auto-ignition temperature:	Not applicable	--	--
Decomposition temperature:	Not Relevant	--	--
Viscosity:	Not Relevant	--	--
Explosive properties:	Not explosive	--	--
Oxidizing properties:	Non-oxidizing	--	--

#### 9.2. Other information

Properties	Value	Method:	Notes
Miscibility:	Not Relevant	--	--
Fat Solubility:	Not Relevant	--	--

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

May react with alkalis.

### 10.2. Chemical stability

Stable under normal conditions

### 10.3. Possibility of hazardous reactions

In normal condition of use and storage dangerous reactions are not expected . Avoid contact with incompatible substances.

### 10.4. Conditions to avoid

Avoid overheating, electrostatic discharge and all sources of ignition.

### 10.5. Incompatible materials

Oxidazing agents.

Alkalis

Ammonia

### 10.6. Hazardous decomposition products

In case of fire or decomposition may spread gas and vapors potentially harmful for health as CO<sub>2</sub>, carbon mono-oxide and other irritating fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Toxicological information of the product:

#### a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

#### b) skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

#### c) serious eye damage/irritation

The product is classified: Eye Dam. 1 H318

#### d) respiratory or skin sensitisation

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- Not classified  
 Based on available data, the classification criteria are not met
- e) germ cell mutagenicity  
 Not classified  
 Based on available data, the classification criteria are not met
- f) carcinogenicity  
 Not classified  
 Based on available data, the classification criteria are not met
- g) reproductive toxicity  
 Not classified  
 Based on available data, the classification criteria are not met
- h) STOT-single exposure  
 Not classified  
 Based on available data, the classification criteria are not met
- i) STOT-repeated exposure  
 Not classified  
 Based on available data, the classification criteria are not met
- j) aspiration hazard  
 Not classified  
 Based on available data, the classification criteria are not met
- Toxicological information of the main substances found in the product:  
 PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2
- a) acute toxicity:  
 Test: LC50 - Route: Inhalation - Species: Rat = 850 mg/l - Duration: 2h  
 Test: LD50 - Route: Oral - Species: Rat = 1530 mg/kg  
 Test: LD50 - Route: Skin - Species: Rabbit = 2740 mg/kg
- b) skin corrosion/irritation:  
 Test: Skin Corrosive Positive
- c) serious eye damage/irritation:  
 Test: Eye Corrosive Positive
- CITRIC ACID - CAS: 77-92-9
- a) acute toxicity:  
 Test: LD50 - Route: Oral - Species: Rat = 11700 mg/kg - Notes: OCSE 401  
 Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OCSE 402  
 Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg bw - Notes: OCSE 401
- b) skin corrosion/irritation:  
 Test: Skin Irritant - Route: Skin - Species: Rabbit Negative - Notes: OECD 404
- c) serious eye damage/irritation:  
 Test: Eye Irritant - Route: .EYES - Species: Rabbit Positive - Notes: OECD 405
- d) respiratory or skin sensitisation:  
 Test: Skin Sensitization - Species: Guinea pig Negative
- e) germ cell mutagenicity:  
 Test: Mutagenesis Negative
- f) carcinogenicity:  
 Test: Carcinogenicity Negative



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- g) reproductive toxicity:  
 Test: NOAEL - Species: Rat > 295 mg/kg bw/day
- h) STOT-single exposure:  
 Test: Acute toxicity Negative
- i) STOT-repeated exposure:  
 Test: Chronic toxicity Negative
- ALKYL ETHER CARBOXYLIC ACID
- a) acute toxicity:  
 Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
- d) respiratory or skin sensitisation:  
 Test: Skin Sensitization - Route: Skin - Species: Mouse Negative
- e) germ cell mutagenicity:  
 Test: Mutagenesis Negative
- ACETIC ACID, (2-BUTOXYETHOXY)-
- a) acute toxicity:  
 Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
- 3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3
- a) acute toxicity:  
 Test: LD50 - Route: Oral - Species: Rat = 4300 mg/kg  
 Test: LD50 - Route: Oral - Species: Mouse = 5830 mg/kg  
 Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
- b) skin corrosion/irritation:  
 Test: Skin Irritant - Species: Rabbit Positive
- SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2
- a) acute toxicity:  
 Test: Respiratory Tract Corrosive Positive - Notes: Burning sensation, sore throat, cough, breathing difficulty, shortness of breath, pulmonary oedema. Symptoms may be delayed.  
 Test: Corrosive injury to gastrointestinal tract Positive - Notes: Burning sensation, abdominal pain, shock or collapse.
- b) skin corrosion/irritation:  
 Test: Skin Corrosive - Species: Rabbit Positive - Notes: Equivalent or similar method to OECD TG 404
- c) serious eye damage/irritation:  
 Test: Eye Corrosive - Species: Rabbit Positive - Notes: OECD TG 405 Method (2% solution)
- d) respiratory or skin sensitisation:  
 Test: Skin Sensitization - Species: Man Negative - Notes: OECD SID Method
- e) germ cell mutagenicity:  
 Test: Mutagenesis Negative - Source: Environmental and Molecular Mutagenesis e NIOSH/00217350
- f) carcinogenicity:  
 Test: Carcinogenicity Negative
- g) reproductive toxicity:  
 Test: Genotoxicity Negative

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2

#### a) Aquatic acute toxicity:

Endpoint: IC50 - Species: Algae = 590 mg/l

Endpoint: LC50 - Species: Fish = 138 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72

CITRIC ACID - CAS: 77-92-9

#### a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Leuciscus idus = 440 mg/l - Duration h: 48 - Notes: OCSE 203

Endpoint: EC50 - Species: Daphnia magna = 1535 mg/l - Duration h: 24

Endpoint: IC50 - Species: Algae (Scenedesmus quadricauda) = 425 mg/l - Duration h: 168

Endpoint: EC50 - Species: Pseudomonas putida > 10000 mg/l - Duration h: 16 - Notes: OECD 306

ALKYL ETHER CARBOXYLIC ACID

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 67 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

ACETIC ACID, (2-BUTOXYETHOXY)-

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia > 100 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 100 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

3-METHOXY-3-METHYLBUTAN-1-OL - CAS: 56539-66-3

#### b) Aquatic chronic toxicity:

Endpoint: LC50 - Species: Fish > 100 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia > 1000 mg/l - Duration h: 48

Endpoint: IC50 - Species: Algae > 1000 mg/l - Duration h: 72

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

#### a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 40.4 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 189 mg/l - Duration h: 48

### 12.2. Persistence and degradability

PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2

The substance is inorganic, therefore biodegradability tests are not applicable.

CITRIC ACID - CAS: 77-92-9

Biodegradability: Readily biodegradable - Test: OCSE 301B/ ISO 9439/ EEC 92/69/V, C.4-C - Duration h: 28 days - %: 97

Biodegradability: Readily biodegradable - Test: DOC reduction - Duration h: 19 days - %: 100 - Notes: OCSE 301E/ EEC 92/69/V, C.4-B

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ALKYL ETHER CARBOXYLIC ACID

Biodegradability: Readily biodegradable.

ACETIC ACID, (2-BUTOXYETHOXY)-

Biodegradability: Readily biodegradable.

SODIUM HYDROXIDE; CAUSTIC SODA - CAS: 1310-73-2

It quickly oxidises in air by photochemical reaction.

12.3. Bioaccumulative potential

PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2

Not bioaccumulative.

CITRIC ACID - CAS: 77-92-9

Not bioaccumulative

ACETIC ACID, (2-BUTOXYETHOXY)-

Low bioaccumulative - Test: Kow - Partition coefficient 1.3

12.4. Mobility in soil

PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...% - CAS: 7664-38-2

This substance is highly soluble and dissolves in water.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

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### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

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### SECTION 14: Transport information



14.1. UN number

ADR-UN Number:	1805
IATA-UN Number:	1805
IMDG-UN Number:	1805

14.2. UN proper shipping name

ADR-Shipping Name:	PHOSPHORIC ACID, SOLUTION
IATA-Shipping Name:	PHOSPHORIC ACID, SOLUTION
IMDG-Shipping Name:	PHOSPHORIC ACID, SOLUTION

14.3. Transport hazard class(es)

ADR-Class:	8
ADR-Label:	8

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- ADR - Hazard identification number: 80
- IATA-Class: 8
- IATA-Label: 8
- IMDG-Class: 8
- IMDG-Class: 8
- 14.4. Packing group
- ADR-Packing Group: III
- IATA-Packing group: III
- IMDG-Packing group: III
- 14.5. Environmental hazards
- ADR-Environmental Pollutant: No
- IMDG-Marine pollutant: No
- 14.6. Special precautions for user
- ADR-Subsidiary risks: -
- ADR-S.P.: -
- ADR-Transport category (Tunnel restriction code): (E)
- IATA-Passenger Aircraft: 852
- IATA-Subsidiary risks: -
- IATA-Cargo Aircraft: 856
- IATA-S.P.: A3 A803
- IATA-ERG: 8L
- IMDG-EmS: F-A , S-B
- IMDG-Subsidiary risks: -
- IMDG-Stowage and handling: Category A
- IMDG-Segregation: -
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable

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## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

- Dir. 98/24/EC (Risks related to chemical agents at work)
- Dir. 2000/39/EC (Occupational exposure limit values)
- Regulation (EC) n. 1907/2006 (REACH)
- Regulation (EC) n. 1272/2008 (CLP)
- Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
- Regulation (EU) 2015/830
- Regulation (EU) n. 286/2011 (ATP 2 CLP)
- Regulation (EU) n. 618/2012 (ATP 3 CLP)
- Regulation (EU) n. 487/2013 (ATP 4 CLP)
- Regulation (EU) n. 944/2013 (ATP 5 CLP)
- Regulation (EU) n. 605/2014 (ATP 6 CLP)
- Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
 Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

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Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

PHOSPHORIC ACID ...%, ORTHOPHOSPHORIC ACID ...%

CITRIC ACID

## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H318 Causes serious eye damage.

H315 Causes skin irritation.

H302 Harmful if swallowed.

H400 Very toxic to aquatic life.

H290 May be corrosive to metals.

Hazard class and hazard category	Code	Description
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Corr. 1C	3.2/1C	Skin corrosion, Category 1C
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Skin Corr. 1A, H314	Calculation method
Eye Dam. 1, H318	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Exposure scenarios must be obtained from the following addresses:

mrimessi@coind.it / rdsanificazione@coind.it.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.

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TLV:            Threshold Limiting Value.  
TWA:            Time-weighted average  
WGK:            German Water Hazard Class.