



SAFETY DATA SHEET

Prepared in accordance with Regulation (EC) No. 1907/2006 (REACH) and Commission Regulation (EU) 2015/830

Date: November 23, 2016 Revision: 1.0

DESCALER – LIMESCALE REMOVER

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND IDENTIFICATION OF THE COMPANY / UNDERTAKING

- 1.1 Product identifier: DESCALER
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:
 - 1.2.1 Identified uses: Descaling agent
 - 1.2.2 Uses advised against: The product is intended for professional use only.
- 1.3 Details of the supplier of the safety data sheet:
 - 1.3.1 Distributor: Fortador Sp. K.A.Traczyńscy
 - 1.3.2 Address: Ogrodowa 26a, 05-552 Wola Mrokowska
 - 1.3.3 Phone: +48 22 632 16 68
 - 1.3.4 Email address of the person responsible for the safety data sheet: amtra@amtra.pl
- 1.4 Emergency telephone number: +48 32 294 41 30 (from 800 to 1600), 112 (general emergency telephone number), 998

SECTION 2. HAZARD IDENTIFICATION

- 2.1. Classification of the mixture:
 - 2.1.1. Hazards to man: The product is classified as hazardous.
Skin Corr. 1B - Skin corrosion, cat. 1B
H314- Causes severe skin burns and eye damage
 - 2.1.2 Environmental hazard: The product is not classified as dangerous for the environment
 - 2.1.3 Hazards arising from physical and chemical properties: No data available
- 2.2. Label elements:
 - 2.2.1 Hazard pictograms:
 - 2.2.2 Signal words: DANGER
 - 2.2.3. Names of hazardous ingredients on the label: Phosphoric acid
 - 2.2.4 Hazard statements: H314- Causes severe skin burns and eye damage
 - 2.2.5 Precautionary statements: P260- Do not breathe vapors / spray P280- Wear protective gloves / protective clothing / eye protection / face protection P301 + P330 + P331- IF SWALLOWED: rinse mouth. Do NOT induce vomiting. 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 / doctor P405- Store locked up

2.2.4 Additional information: None

2.3 Other hazards: There is no information on meeting the PBT or vPvB criteria in accordance with Annex XIII of Commission Regulation (EU) No. 253/2011 of March 15, 2011. Studies have not been conducted.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances: Not applicable

3.2 Mixtures:

Chemical name of the ingredient

Concentration range

CAS number

EC number

Classification according to 1272/2008 / EC

Phosphoric acid

Registration number: 01-2119485924-24-xxxx

20% -25%

7664-38-2

231-633-2

Skin corr. 1B, H314

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

4.1.1 Ingestion: If swallowed, rinse out mouth, remove dentures if any. Transport to the nearest medical facility for treatment. Show packaging or label. If vomiting occurs spontaneously, hold the head below the hips.

4.1.2. Inhalation poisoning: Take the injured out of the place of exposure and provide access to fresh air as well as peace and rest. In case of ailments (coughing, vomiting, dizziness, wheezing) provide medical assistance. Place the unconscious in the side position.

4.1.3. Skin contamination: Take off contaminated clothing. Wash the skin with warm soapy water. If skin irritation occurs, contact a physician.

4.1.4 Eye contamination: If the injured person wears contact lenses, remove them immediately. Rinse thoroughly with plenty of water, rolling up eyelids. Provide eye care assistance.

Note: Persons exposed to eye contamination should be advised of the necessity and method of immediate eye flushing

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

4.2.1 Eye contamination: Irritation, redness and tearing may occur

4.2.2 Ingestion: Nausea, vomiting and stomach ache may appear

4.2.3 Skin contact: Skin irritation may occur.

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

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media: Use common extinguishing media; depending on the environment.

5.1.2 Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture: None known. Avoid breathing combustion products. Phosphorus oxides can be hazardous thermal decomposition products due to the presence of phosphoric acid in the mixture.

5.3 Advice for firefighters: General protective measures in the event of fire. Do not stay in the fire endangered area without suitable chemical-resistant clothing and a self-contained breathing apparatus. Containers at risk of fire should be removed if possible and not associated with excessive risk, or cool with sprayed water from a suitable distance. Isolate the area by removing all persons from the vicinity of the accident if there is a fire. You should not take any action that would pose a risk to anyone unless you are properly trained.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For independent persons to the personnel eliminating the consequences of an accident: Limit the access of bystanders to the area of failure until the failure is removed. In the event of large spills, isolate the affected area. Use personal protection equipment. Avoid prolonged contact with skin. Avoid contact with eyes. Comply with health and safety rules and regulations in force when working with chemical products.

6.1.2 For persons who eliminate the consequences of a failure: The removal of a failure and its effects may only be carried out by trained personnel. Wear protective clothing for chemicals.

6.2 Environmental precautions: Do not allow to enter sources of drinking water, soil, sewage system. If possible, eliminate leakage (close liquid supply, seal, place damaged packaging in an airtight protective packaging). Notify authorities and chemical rescue services if necessary.

6.3 Methods and material for containment and cleaning up: Cover the smaller spill with a paper towel. Alternatively, absorb with an inert, dry material and place in an appropriate waste disposal container. In the event of large spills, bundle and clean the places of substance accumulation - sprinkle with absorbent material, e.g. sand, soil and collect in a closed, properly labeled container. Flush contaminated areas with plenty of water. Utilize at a licensed waste disposal company. Contaminated absorbent material may pose the same hazard as the spilled product.

6.4 Reference to other sections: Product waste management - section 13 safety data sheets, personal protection equipment - section 8 safety data sheets

SECTION 7. HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1 Precautions for safe handling: Handle in accordance with good industrial hygiene and safety practice. Avoid eye contamination. Do not breathe product vapors. Wash hands before breaks and after finishing work. Keep unused containers tightly closed. Ensure proper ventilation of the room in which the product is used. Use the product in accordance with the method of use on the unit packaging.

7.2 Conditions for safe storage, including any incompatibilities: Store in tightly closed containers, away from sources of ignition. Keep away from children. Do not store together with food and animal feed. Do not store with rules.

7.3 Specific end uses: Not applicable

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: Based on the ingredient of the mixture:

Phosphoric acid OEL: 1mg / m³, OEL: 2 mg / m³

DNEL for employees (long-term): 2.92mg / m³

DNEL for the general public (long-term): 0.73 mg / m³

PNEC - taking into account the pH - safe pH value is between 6-9

8.2 Exposure controls: Observe the general principles of safety and hygiene. Do not eat, drink or smoke while working. Avoid eye contamination. Ensure adequate ventilation. Provide eye wash facilities near work area. Take off contaminated clothing immediately.

8.2.1 Respiratory protection: Use in the absence of adequate ventilation, respiratory protection.

8.2.2 Eye / face protection: Wear safety glasses

8.2.3 Skin protection: Use acid-resistant protective gloves and acid-resistant clothing.

8.2.4 Technical protective measures: General ventilation of the room

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: liquid

Color: colorless to straw

Odor: characteristic

Odor threshold: not determined

pH: approx. 1

Temperature

coagulation / melting: no data available

Initial Temperature

boiling and temperature range

boiling: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability: non-flammable

Upper / lower limit

flammability / explosiveness: no data available

Vapor pressure: no data available

Vapor density: no data available

Relative density: 1.146 g / ml

Solubility: very good in water
Partition coefficient
n-octanol / water: no data available
Auto-ignition temperature: not applicable
Decomposition temperature: no data available
Viscosity: no data available
Explosive properties: not applicable
Oxidizing properties: no data available
9.2 Other information: no data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable under normal conditions of use.
10.2 Chemical stability: Stable under normal conditions of use.
10.3 Possibility of hazardous reactions: No data available.
10.4 Conditions to avoid: No data available
10.5 Incompatible materials: Do not mix with bases due to low pH.
10.6 Hazardous decomposition products: No data available.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:
a) acute toxicity: Based on available data, the classification criteria are not met
b) skin corrosion / irritation: Causes severe skin burns
c) serious eye damage / eye irritation: Causes eye damage
d) respiratory or skin sensitization: Classification criteria have not been met based on the available data
e) germ cell mutagenicity: Based on available data, the classification criteria are not met
f) carcinogenicity: Classification criteria have not been met based on the available data
g) reproductive toxicity: Classification criteria have not been met based on the available data
h) specific target organ toxicity - single exposure: Based on available data, the classification criteria are not met
i) specific target organ toxicity - repeated exposure: No classification criteria based on available data
j) aspiration hazard: Based on available data, the classification criteria are not met
Toxicological information based on phosphoric acid:
Acute oral toxicity: LD50 - 1530 mg / kg (rat)
Acute inhalation toxicity: no data available
Acute toxicity - dermal: LD50 - 2740 mg / kg (rabbit)
Skin corrosion / irritation:
Skin irritation: deep burns, wounds healing slowly with scarring and inflammation
Serious eye damage / eye irritation:
Eye irritation: corneal destruction, tearing, photophobia, conjunctivitis and swelling
Respiratory or skin sensitization: no data available
Germ cell mutagenicity: no data available

Carcinogenicity: no data available
Reproductive toxicity: no data available
Toxic to organs or systems - single exposure: no data available
Toxic to organs or systems - repeated exposure: no data available
Inhalation toxicity: no data available
Phototoxicity: data shoulder

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: The product is not classified as dangerous for the environment.
12.2 Persistence and degradability: No data available
12.3 Bioaccumulative potential: No data available
12.4 Mobility in soil: No data available
12.5 Results of PBT and vPvB assessment: No data available
12.6 Other adverse effects: No data available.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:
13.1.1 Recommendations for the mixture: Follow the applicable regulations. The waste code should be given in place of its manufacture
13.1.2 Recommendations regarding used packaging: Recovery / disposal of packaging waste should be carried out in accordance with applicable regulations. Only completely emptied packaging can be sent for recycling.

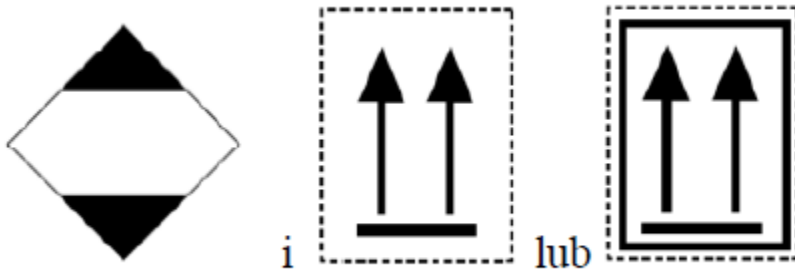
SECTION 14. TRANSPORT INFORMATION

14.1 UN number: UN 1805
14.2 Proper shipping name: PHOSPHORIC ACID, SOLUTION
14.3 Transport hazard class: 8
14.4 Hazard identification number: 80
14.5 Packing group: III
14.6 Classification code: C1
14.7 Warning sticker: 8



14.8 Environmental hazards: The mixture does not pose a threat to the environment

14.9 Transport in accordance with the exclusion of 1.1.3.4: combined packaging of a gross weight not exceeding 30 kg, packaging internal not more than 5 L or a tray wrapped in shrink or stretch film with a gross weight not greater than 20kg, internal packaging not exceeding 5 L. Combined packaging and trays marked with a signaling symbol off and directional arrows:



If more than 8,000 kg gross of such combination packaging or trays are transported in the transport unit, the unit must be marked on the front and back with a sign indicating shut-off (square 25 cm side).

14.10 Transport in accordance with exemption 1.1.3.6: Transport category 3, maximum quantity per transport unit 1000L.

14.11 Tunnel passage code: E

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the substance or mixture:

1272/2008 / EC Regulation of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) No 1907/2006 (Official Journal of the EU L 353 from 31 December 2008)

Act of 25 February 2011 on chemical substances and their mixtures (Journal of Laws No. 63, Item 322, as amended, consolidated text, Journal of Laws 2015, item 1203)

Announcement of the Minister of Health of January 12, 2015 on the publication of a uniform text of the Regulation of the Minister of Health on the criteria and method of classification of chemical substances and mixtures thereof (Journal of Laws of 2015 No. 0, Item 208)

Announcement of the Minister of Health of March 2, 2015 on the announcement of a uniform text of the Regulation of the Minister of Health on the labeling of packaging of hazardous substances and

dangerous mixtures and certain mixtures (Journal of Laws 2015 item 450)

MPIPS Regulation of June 6, 2014. on the highest allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws 2014, Item 817)

Government Statement of 16 January 2009 on the entry into force of amendments to Annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva of 30 September 1957 (Journal of Laws No. 27, Item 162)

Act of 14 December 2012 on waste (Journal of Laws 2013, No. 0, Item 21)

Regulation of the Minister of Economy of December 21, 2005 on the essential requirements for personal protective equipment (Journal of Laws No. 259, item 2173)

15.2 Chemical safety assessment:

The manufacturer has not carried out chemical safety assessment for the product. Chemical safety assessment of phosphoric acid has been performed.

SECTION 16. OTHER INFORMATION

The information contained in the card results from the current state of knowledge and experience in using the product. Data for this product is presented to reflect safety requirements and not to guarantee its performance.

The employer is obliged to inform all employees who have contact with the product about the hazards and personal protective equipment specified in this safety data sheet.

This safety data sheet has been developed based on the material safety data sheets provided by their manufacturers, tests carried out and applicable regulations on hazardous chemical substances and preparations.

Before working with the product, the user should read the health and safety rules regarding handling chemicals, and in particular undergo appropriate workplace training.

Phrases used in the safety data sheet:

H314-Causes serious skin damage and eye damage

Skin corr. 1B- Corrosive to the skin, cat. 1B

Classification and methods used to classify the mixture according to Regulation (EC) 1272/2008 (CLP)

Skin Corr.1B, H314- classification according to calculation method