



Material Safety Data Sheet

Accepta 2118

Date issued: 01-05-2005

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Product Name: ACCEPTA 2118
Application: Reverse Osmosis cleaner

Company Identification: Accepta Ltd.
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2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is not classified as dangerous in accordance with Directives 1967/548/EEC or 1999/45/EC. Any disclosed substance(s) are present below hazardous concentration levels for the product classification.

Hazardous Substance(s)	EINECS /ELINCS NO	SYMBOL	R-PHRASES /NOTAS	% (w/w)
Phosphoric Acid	231-633-2	C	R34	5 - 10

Refer to Section 16 for descriptions of relevant risk phrases and Notas.

3. HAZARD IDENTIFICATION

HAZARD CLASSIFICATION :

This product is not classified as dangerous in accordance with Directives 1967/548/EEC or 1999/45/EC. Any disclosed substance(s) are present below hazardous concentration levels for the product classification.

HUMAN HEALTH HAZARDS - ACUTE :

INHALATION :

Aerosols or product mist may irritate the upper respiratory tract.

PHYSICAL AND CHEMICAL HAZARDS:

SKIN CONTACT :

Can cause moderate irritation.

EYE CONTACT :

Can cause moderate irritation.

INGESTION :

May cause mucosal damage.



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4. FIRST AID MEASURES

INHALATION :

Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

SKIN CONTACT :

Flush affected area with water. If symptoms develop, seek medical advice.

EYE CONTACT :

Immediately flush eye with water for at least 15 minutes while holding eyelids open. Get medical attention.

INGESTION :

Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water.

NOTE TO PHYSICIAN :

Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : None

EXTINGUISHING MEDIA :

Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :

May evolve oxides of phosphorus (PO_x) under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :

In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :

Restrict access to area as appropriate until clean-up operations are complete. Ensure clean-up is conducted by trained personnel only. Ventilate spill area if possible. Do not touch spilled material. Stop or reduce any leaks if it is safe to do so. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :

SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. **LARGE SPILLS:** Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated

surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :

Do not contaminate surface water.



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7. HANDLING AND STORAGE

HANDLING :

Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labelled. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection).

STORAGE CONDITIONS :

Store in suitable labelled containers. Store the containers tightly closed. Store separately from bases. Freezing will affect the physical condition but will not change the material. Thaw and mix before using.

SUITABLE CONSTRUCTION MATERIAL :

HDPE (high density polyethylene), Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.

UNSUITABLE CONSTRUCTION MATERIAL : Aluminum

SPECIFIC USE(S) : SCALE REMOVER

8. EXPOSURE CONTROL/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS

Exposure guidelines have not been established for this product. Available exposure limits for the substance(s) are shown below.

Country/Source	Substance(s)	Category:	ppm	mg/m3
BELGIUM	Phosphoric Acid	TWA	1	
		STEL	2	
DENMARK	Phosphoric Acid	TWA	1	
FINLAND	Phosphoric Acid	HTP 8H	1	
		HTP 15MIN	2	
GERMANY	Phosphoric Acid	TWA	1	
IRELAND	Phosphoric Acid	TWA	1	
		STEL	2	
ITALY	Phosphoric Acid	TWA	1	
		STEL	2	
NETHERLANDS	Phosphoric Acid	MAC TGG	0.2	1
		MAC-TGG15	0.5	2
NORWAY	Phosphoric Acid	ADM. NORM	1	
SPAIN	Phosphoric Acid	VLA-ED	1	
		VLA-EC	2	
		Phosphoric Acid (Mist.) NGV	1	
SWEDEN	Phosphoric Acid (Mist.) NGV	KTV	3	
		TWA	1	
SWITZERLAND	Phosphoric Acid	TWA	1	
GREAT BRITAIN	Phosphoric Acid	STEL	2	
		TWA	1	

* A skin notation refers to the potential significant contribution to overall exposure by the cutaneous route, including mucous membranes and the eyes.

MONITORING MEASURES :

A small volume of air is drawn through an absorbant or barrier to trap the substance(s) which can then be desorbed or removed and analyzed as referenced below:

Substance(s) Method Analysis Absorbant Phosphoric Acid US NIOSH: 7903 Ion chromatography Silica gel

ENGINEERING MEASURES :

The use of local exhaust ventilation is recommended to control emissions near the source. Laboratory samples should be handled in a fumehood. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTION

GENERAL ADVICE : The use and choice of personal protection equipment is related to the hazard of the product, the workplace and the way the product is handled. In general, we recommend as a minimum precaution that safety glasses with side-shields and workclothes protecting arms, legs and body be used. In addition any person visiting an area where this product is handled should at least wear safety glasses with side-shields. The applicable European standard can be found in EN 166.



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RESPIRATORY PROTECTION : An approved respirator must be worn if the occupational exposure limit is likely to be exceeded. A suitable filter material depends on the amount and type of chemicals being handled. An acid gas cartridge may be used. The applicable European standard can be found in EN 141, EN 143 and EN 371. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :

When handling this product, the use of chemical gloves is recommended. The choice of work glove depends on work conditions and what chemicals are handled, but we have positive experience under light handling conditions using gloves made from NEOPRENE, Nitrile, or PVC Gloves should be replaced immediately if signs of degradation are observed. Breakthrough time not determined as preparation, consult PPE manufacturers.

The applicable European standard can be found in EN 374.

SKIN PROTECTION :

Wear standard protective clothing. The applicable European standard can be found in EN 345.

EYE PROTECTION :

When handling this product, the use of splash chemical goggles is recommended. The applicable European standard can be found in EN 166.

HYGIENE RECOMMENDATIONS :

Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid

APPEARANCE Colorless

ODOR Acidic

FLASH POINT : None

SPECIFIC GRAVITY 1.05 (25 °C)

SOLUBILITY IN WATER Complete

pH (100 %) 1.5

VISCOSITY 2 cps (23.3 °C)

FREEZING POINT -8.8 °C

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY :

Stable under normal conditions.

HAZARDOUS POLYMERIZATION :

Hazardous polymerization will not occur.

CONDITIONS TO AVOID :

Avoid extremes of temperature.

MATERIALS TO AVOID :

Bases, Strong oxidizing agents, Acid reactive salts (nitrites, sulfites)

HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of phosphorus

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :

This product is not expected to be a sensitizer.

CARCINOGENICITY :

None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

For additional information on the hazard of the preparation, please consult section 3 and 12.



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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

The following results are for the product.

ACUTE FISH RESULTS :

Species	Exposure	LC50	Method	Test Descriptor
Rainbow Trout	96 hrs	> 1,000 mg/l		Product

MOBILITY :

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM , provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	Water	Soil/Sediment
<5%	30 - 50%	50 - 70%

The portion in water is expected to be soluble or dispersible.

PERSISTENCY AND DEGRADATION :

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

BIOACCUMULATION POTENTIAL

This preparation or material is not expected to bioaccumulate.

13. DISPOSAL CONSIDERATIONS

If this preparation becomes a waste, the final user must define and assign the appropriate European Waste Catalogue code. Use only authorized contractors. Ensure compliance with EC, national and local regulations. Dispose of wastes in an approved incinerator or waste treatment/disposal site, in accordance with all applicable regulations. Do not dispose of wastes in local sewer or with normal garbage. This product will generate an ash if burned. It can be burned directly in appropriate equipment. This product is NOT suitable for disposal via municipal sewers, drains, natural streams or rivers.

Empty drums should be taken for recycling, recovery, or disposal through a suitably qualified or licensed contractor.

EUROPE WASTE CODE :16 03 04 # OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes other than those mentioned in 16 03 03. If this product is used in any further processes, the final user must redefine and assign the most appropriate European Waste Catalogue Code.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

LAND TRANSPORT

Proper Shipping Name : PHOSPHORIC ACID, LIQUID

Technical Name(s) :

UN/ID No : UN 1805

Hazard Class - Primary : 8

Packing Group : III

ADR/RID H.I.n. : 80

CLASSIFICATION CODE : C1



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AIR TRANSPORT (ICAO/IATA)
Proper Shipping Name : PHOSPHORIC ACID, LIQUID
Technical Name(s) :
UN/ID No : UN 1805
Hazard Class - Primary : 8
Packing Group : III
IATA Cargo Packing Instructions : 821
IATA Cargo Aircraft Limit : 60 L (Max net quantity per package)
IATA Passenger Packing Instructions : Y819 / 819
IATA Passenger Aircraft Limit : 1 L / 5 L
MARINE TRANSPORT (IMDG/IMO)
Proper Shipping Name : PHOSPHORIC ACID, LIQUID
Technical Name(s) :
UN/ID No : UN 1805
Hazard Class - Primary : 8
Packing Group : III
OTHER APPLICABLE INFORMATION
CEFIC TREMCARD REFERENCE : 80S1805
EMERGENCY ACTION CODE : 2R

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELLING :
This preparation is not regulated, however, we recommend the following safety precautions:
SAFETY PHRASES
S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.
NATIONAL REGULATIONS GERMANY
WGK 1
INTERNATIONAL CHEMICAL CONTROL LAWS
EUROPE
The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

16. OTHER INFORMATION

Emergency Telephone Number +44 (0) 161 240 2100

RELEVANT RISK PHRASES AND NOTAS

R34 - Causes burns.

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations.