

**MATERIAL SAFETY DATA SHEET**

PRODUCT  
**ACCEPTA 2066**

EMERGENCY TELEPHONE NUMBER(S)

See section 16, for Emergency Telephone Numbers.

**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME : **ACCEPTA 2066**

APPLICATION : REVERSE OSMOSIS CLEANER

COMPANY IDENTIFICATION : ACCEPTA LTD  
Statham House, Talbot Road.  
Manchester M32 0FP. United Kingdom.

EMERGENCY TELEPHONE NUMBER(S) : See section 16, for Emergency Telephone Numbers.

Date issued : 01/05/2008

COMPANY CONTACT TELEPHONE NUMBERS. +44 (0) 161 877 2334

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

Hazardous Substance(s)	EINECS / ELINCS NO	SYMBOL	R-PHRASES / NOTAS	% (w/w)
Tetrasodium EDTA	200-573-9	Xn	R22, R36	30 - 40
Sodium Hydroxide	215-185-5	C	R35	0.5 - < 2

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

**3. HAZARDS IDENTIFICATION**

HAZARD CLASSIFICATION :

This product is classified as dangerous in accordance with the Preparations Directive 1999/45/EC.

Irritating to eyes and skin.

HUMAN HEALTH HAZARDS - ACUTE :

INHALATION :  
May cause irritation of mucous membranes.

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### SKIN CONTACT :

Can cause moderate irritation.

### EYE CONTACT :

Can cause moderate irritation.

### INGESTION :

There may be irritation to the gastro-intestinal tract with nausea and vomiting.

### HUMAN HEALTH HAZARDS - CHRONIC :

No adverse effects expected other than those mentioned above.

## 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 :

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use extinguishing media appropriate for surrounding fire.

### FIRE AND EXPLOSION HAZARD :

May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) 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. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not

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touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. 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.

## 7. HANDLING AND STORAGE

### HANDLING :

Do not get in eyes, on skin, on clothing. Do not take internally. 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 labeled. Do not mix with acids.

### STORAGE CONDITIONS :

Store in suitable labeled containers. Store the containers tightly closed. Store separately from acids.

### SUITABLE CONSTRUCTION MATERIAL :

HDPE (high density polyethylene), Stainless Steel 304, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use., Mild steel, Stainless Steel 316L, Viton, Polyurethane, Hypalon, Buna-N, EPDM, Polyethylene, Polypropylene, PVC, Epoxy phenolic resin, Neoprene

### UNSUITABLE CONSTRUCTION MATERIAL :

Brass, 100% phenolic resin liner

### SPECIFIC USE(S) :

REVERSE OSMOSIS CLEANER

For specific dosages and customized applications please contact your representative.

## 8. EXPOSURE CONTROLS/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
__AUSTRIA	Sodium Hydroxide (Inhalable dust)	MAK		2
		MAK CEIL		4
BELGIUM	Sodium Hydroxide	TWA		2
DENMARK	Sodium Hydroxide	LOFT		2
FINLAND	Sodium Hydroxide	HTP 8H		2
FRANCE	Sodium Hydroxide	VME		2

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GERMANY	Sodium Hydroxide	MAK	2
IRELAND	Sodium Hydroxide	STEL	2
ITALY	Sodium Hydroxide	Ceiling	2
NORWAY	Sodium Hydroxide	CEIL	2
SPAIN	Sodium Hydroxide	VLA-EC	2
SWEDEN	Sodium Hydroxide (Inhalable dust)	NGV TGV	1 2
SWITZERLAND	Sodium Hydroxide (Inhalable dust)	TWA STEL	2 2
UNITED KINGDOM	Sodium Hydroxide	STEL	2
POLAND	Sodium Hydroxide	MAC-NDS MAC- NDSch	0.5 1
HUNGARY	Sodium Hydroxide	ÁK CK	2 2
CZECH REPUBLIC	Sodium Hydroxide	PEL NPK-P	1 2
CROATIA	Sodium Hydroxide (Total dust.)	MDK	2
ROMANIA	Sodium Hydroxide as NaOH	TWA STEL	1 3
SLOVAKIA	Sodium Hydroxide Sodium Hydroxide (Aerosol.)	TWA TWA	2 0.5
SLOVENIA	Sodium Hydroxide (Inhalable fraction.)	TWA	2

\* 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
Sodium Hydroxide	US NIOSH: 7401	Titration	PTFE filter

## ENGINEERING MEASURES :

General ventilation is recommended.

## 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 :

Where concentrations in air may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: A-B-E-K-P 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 gauntlets 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 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 :

Wear chemical splash goggles. The applicable European standard can be found in EN 166.

### HYGIENE RECOMMENDATIONS :

Use good work and personal hygiene practices to avoid exposure. Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Light yellow
ODOR	Slight
FLASH POINT :	None
SPECIFIC GRAVITY	1.3
SOLUBILITY IN WATER	Complete
pH (100 %)	12.0 - 13.0
FREEZING POINT	-13 °C
BOILING POINT	107 °C
VAPOR PRESSURE	Same as water

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.

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## CONDITIONS TO AVOID :

Avoid extremes of temperature.

## MATERIALS TO AVOID :

Acids, Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors.

## HAZARDOUS DECOMPOSITION PRODUCTS :

Under fire conditions: Oxides of carbon, Oxides of nitrogen

## 11. TOXICOLOGICAL INFORMATION

The following results are for the product.

### ACUTE ORAL TOXICITY :

Species	LD50	Test Descriptor
Rat	> 2,000 mg/kg	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.

## 12. ECOLOGICAL INFORMATION

### ECOTOXICOLOGICAL EFFECTS :

The following results are for a similar product.

#### ACUTE FISH RESULTS :

Species	Exposure	LC50	Method	Test Descriptor
Fish	96 hrs	41 - 2,070 mg/l		Similar Product

#### ACUTE INVERTEBRATE RESULTS :

Species	Exposure	LC50	EC50	Method	Test Descriptor
Daphnia magna	24 hrs	> 500 mg/l			Similar Product

#### AQUATIC PLANT RESULTS :

Species	Exposure	EC50/LC50	Method	Test Descriptor
Algae	72 hrs	10 - 100 mg/l		Similar Product

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## 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 :

Total Organic Carbon (TOC) : 94,000 mg/l

The organic portion of this preparation is expected to be inherently biodegradable.

## 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. Any Chemical waste is a potential environmental pollutant and is NOT suitable for disposal via ground, 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 03\* - OFF SPECIFICATION BATCHES AND UNUSED PRODUCTS - Inorganic wastes containing dangerous substances. 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 :	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S
Technical Name(s) :	Tetrasodium EDTA
UN/ID No :	UN 3267
Hazard Class - Primary :	8
Packing Group :	III
ADR/RID H.I.n. :	80

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CLASSIFICATION CODE : C7

## AIR TRANSPORT (ICAO/IATA)

Proper Shipping Name :	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S
Technical Name(s) :	Tetrasodium EDTA
UN/ID No :	UN 3267
Hazard Class - Primary :	8
Packing Group :	III
IATA Cargo Packing Instructions :	820
IATA Cargo Aircraft Limit :	60 L (Max net quantity per package)
IATA Passenger Packing Instructions :	Y818 / 818
IATA Passenger Aircraft Limit :	1 L / 5 L

## MARINE TRANSPORT (IMDG/IMO)

Proper Shipping Name :	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S
Technical Name(s) :	Tetrasodium EDTA
UN/ID No :	UN 3267
Hazard Class - Primary :	8
Packing Group :	III

## OTHER APPLICABLE INFORMATION

CEFIC TREMCARD REFERENCE :	80GC7-II+III
EMERGENCY ACTION CODE :	2X

## 15. REGULATORY INFORMATION

### CLASSIFICATION AND LABELLING :

GOVERNING DIRECTIVE(S): Dangerous Substances Directive 67/548/EEC and Dangerous Preparations Directive 1999/45/EC.

### HAZARD SYMBOLS



IRRITANT

Contains...Tetrasodium EDTA Sodium Hydroxide

### RISK PHRASES

R36/38 - Irritating to eyes and skin.

### SAFETY PHRASES

S24/25 - Avoid contact with skin and eyes.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28 - After contact with skin, wash immediately with plenty of water.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

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NATIONAL REGULATIONS GERMANY  
WGK 2 (Annex 4)

NATIONAL REGULATIONS HOLLAND  
ABM RESULT

ABM RESULT	Substance(s)	% (w/w)
9 B		

INTERNATIONAL CHEMICAL CONTROL LAWS

UNITED STATES

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADA :

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories., The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Ministry of International Trade & industry List (MITI).

## 16. OTHER INFORMATION

LIST OF RELEVANT R-PHRASES AND NOTAS IN SECTION 2

R22 - Harmful if swallowed.

R35 - Causes severe burns.

R36 - Irritating to eyes.

- REVISED INFORMATION: section(s):

- 7

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. Please consult your local sales representative for any further information.

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