

## MATERIAL SAFETY DATA SHEET

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1.1 - Name of the product.										
ACCEPTA 4543										
1.2 - Product use.										
Water clarification aid.										
1.3 - Company identification.										
Accepta LTD Statham House Talbot Road Manchester M32 0FP Telf. 0161 877 2334 Fax 0870 135 6389										
1.4 - Contact person.										
1.5 - Emergency telephone number.										
Emergency phone number: 0161 877 2334										
<b>2 - Hazards Identification.</b>										
2.1 - Product classification.										
This product is not classified as dangerous in accordance with Directives 67/548/EEC or 1999/45/EC. Any disclosed substances are present below hazardous concentration levels for the product classification.										
2.2 - Symbols and risk phrases.										
None.										
2.3 - Adverse effects on human health.										
2.3.1 - <i>Inhalation.</i>										
There is no evidence of adverse effects accordingly with the available information.										
2.3.2 - <i>Skin contact.</i>										
May cause irritation with prolonged contact.										
2.3.3 - <i>Eyes contact.</i>										
May cause irritation with prolonged contact.										
2.3.4 - <i>Ingestion.</i>										
Not a likely route of exposure. May cause nausea and vomiting. Can cause chemical pneumonia if aspirated into lungs following ingestion. Can cause central nervous system depression, nausea, dizziness, vomiting, or unconsciousness. If swallowed a jelly mass may form which in digestion may cause blockage.										
2.4 - Adverse effects on the Environment.										
See Section 12.										
2.5 - Physical-chemical hazards.										
None known.										
There is no risk of polymerization.										
2.6 - Other risks.										
Spills produce extremely slippery surfaces.										
<b>3 - Composition / Information on Ingredients.</b>										
3.1 - Chemical description.										
Cationic polymer in emulsion.										
3.2 - Hazardous ingredients.										
<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Name</th> <th style="width: 15%;">Concentration</th> <th style="width: 15%;">EINECS#</th> <th style="width: 10%;">Symbol</th> <th style="width: 40%;">Risk phrases</th> </tr> </thead> <tbody> <tr> <td>Aliphatic hydrocarbon</td> <td>20-30 %</td> <td>265-149-8</td> <td>Xn</td> <td>R65</td> </tr> </tbody> </table>	Name	Concentration	EINECS#	Symbol	Risk phrases	Aliphatic hydrocarbon	20-30 %	265-149-8	Xn	R65
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Aliphatic hydrocarbon	20-30 %	265-149-8	Xn	R65						

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Adipic acid	0,5 -1.5	204-673-3	Xi	R36
Ammonium chloride	1-5	235-186-4	Xn	R22,R36
Fatty alcohol ethoxylate	1-5	5001957(NLP)	Xn,N	R22,R41,R50

## 4 - First Aid Measures.

### 4.1 - Inhalation.

Go to the open air. In case of persistent trouble get medical attention and provide this Material Safety Data Sheet to your physician.

### 4.2 - Skin contact.

Rinse the skin affected with plenty of water. Then wash it again with water and soap. In case of irritation, if it persists, get medical advice.

### 4.3 - Eyes contact.

Rinse thoroughly with plenty of water, also under eyelids, at least for 15 minutes. In case of persistent irritation get medical assistance. It is necessary having a safety shower in the work area.

### 4.4 - Ingestion.

Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink.

## 5 - Fire Fighting Measures.

### 5.1 - Suitable extinguishing media.

Water, water spray, dry powder, carbon dioxide (CO<sub>2</sub>), foam.

### 5.2 - Extinguishing media to avoid.

None.

### 5.3 - Fire and explosion hazard.

Under fire conditions thermal decomposition may produce: nitrogen oxides (NO<sub>x</sub>) and carbon oxides (CO<sub>x</sub>).

### 5.4 - Special protective equipment for fire fighting.

In case of fire wear self-breathing apparatus and protective suit.

## 6 - Accidental Release Measures.

### 6.1 - 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 es safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

### 6.2 - Environmental precautions.

Avoid the ground to be contaminated, natural water courses and wastewater drainage. If contamination occurs inform the corresponding authorities immediately.

### 6.3 - Methods for cleaning up.

For small spills use inert absorbent materials and remove with a shovel; then flush the affected area with pressured water. For large spills contain them with absorbent material and pump out the product to adequate containers; then flush the affected area with pressured water.

## 7 - Handling and Storage.

### 7.1 - Handling.

We recommend handling the product in a well ventilated area. Ensure you have a safety shower and eye wash fountain available. Keep absorbent material as a precaution against spills.

Use normal personal hygiene and housekeeping measures when handling any chemical product.

### 7.2 - Storage conditions.

Maximum temperature: 35 °C.

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Minimum temperature: 0 °C.
Recommended temperature range: 5 - 30 °C.
Shelf life: 12 months.
Avoid extremes of temperature.
<i>7.2.1 - General storage conditions.</i>
Avoid extreme temperatures (below "Minimum temperature" and above "Maximum temperature"). Keep in a covered place, with the drum well closed and within the "Recommended temperature range".
<i>7.2.2 - Specific storage conditions.</i>
Protect from freezing.
<b>7.3 - Specific uses.</b>
For all the expected uses of the product the indications given above are considered appropriate.

## 8 - Exposure Control / Personal Protection.

<b>8.1 - Occupational exposure limits.</b>
Oil Mist (Mineral): VLA-ED : 5 mg/m <sup>3</sup> VLA-EC : 10 mg /m <sup>3</sup>
Adipic acid :VLA-ED: 5 mg/m <sup>3</sup>
<b>8.2 - Exposure controls.</b>
<i>8.2.1 - Professional exposure control.</i>
<i>8.2.1.1 - Engineering measures.</i>
Natural ventilation is adequate in open areas. Provide mechanical ventilation in confined spaces.
<i>8.2.1.2 - Respiratory protection.</i>
Not necessary under normal conditions and provided good general ventilation.
<i>8.2.1.3 - Hand protection.</i>
Use latex gloves, or natural rubber gloves.
<i>8.2.1.4 - Eyes protection.</i>
Safety glases with side-shields.
<i>8.2.1.5 - Skin protection.</i>
Use a chemical resistant apron or full protective equipment depending on the handling level and contact risks with the product.
<i>8.2.1.6 - Additional protection.</i>
Ensure you have a safety shower and eye wash fountain available in the work areas.
<i>8.2.2- Environment exposure controls.</i>
Avoid spills to contaminate the underground, surface water streams and sewer system.

## 9 - Physical and Chemical Properties.

<b>9.1 - General information.</b>
Off-wjite liquid with neutral odor.
<b>9.2 - Relevant information.</b>
Viscosity : 700 cps (20 °C)
Freezing point / range -15 °C.
Flash point > 100 °C.
Density: 1.04 g/cm <sup>3</sup> . (20 °C)
<i>Water solubility</i>
Emulsifiable.

## 10 - Stability and Reactivity.

<b>10.1 - Stability.</b>
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Stable under normal handling and storage conditions.
There is no risk of polymerization.
<b>10.2 - Conditions to avoid.</b>
None for safety reasons. For keeping the original properties of the product follow the recommendations given in Section 7.
<b>10.3 - Materials to avoid.</b>
Strong oxidizers may cause exothermic reactions.
<b>10.4 - Hazardous decomposition products.</b>
None under normal conditions.
Thermal decomposition products (in case of fire) are indicated in Section 5.
<b>10.5- Additional information.</b>
As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.
<b>11 - Toxicological Information.</b>
<b>11.1 - Oral acute toxicity.</b>
Rats, LD50 > 5000 mg/Kg.
<b>11.2 - Dermal acute toxicity.</b>
Rabbit, LD50: Not tested.
<b>11.3 - Inhalation acute toxicity.</b>
Not tested.
<b>11.4 - Skin irritation.</b>
Rabbits (Draize test): Not available.
<b>11.5 - Eyes irritation.</b>
Rabbits (Draize test): Not available.
<b>11.6 - Sensitization.</b>
This product is not expected to be sensitizing.
<b>11.7 - Chronic toxicity.</b>
None known.
<b>11.8 - Other information.</b>
No data available.
<b>12 - Ecological Information.</b>
<b>12.1 - Ecotoxicity.</b>
<i>Acute aquatic toxicity (CL50, fish)</i>
CL50 (96 h, Danio rerio): 1 - 10 mg/li
<i>Acute aquatic toxicity (CL50, invertebrate)</i>
EC50 (48 h, Daphnia magna): 10 - 100 mg/li
<i>Acute aquatic toxicity (CL50, algae)</i>
No data available.
<i>Other data.</i>
NOEC on earthworm: > 1000 mg/l (representativer polymer)
AOX information: Product contains no organic halogens. Discharge in minor quantity into adapted biological units of sewage treatment plants is not expected to affect the efficiency of the acitvated sludge process.
<b>12.2 - Mobility.</b>
It may be easily removed by an abiotic process of adsorption.
<b>12.3 - Persistence and degradability.</b>
COD: 1200000 mg O2/li.
BOD: 60 - 70% Biological degradation.

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Abiotic degradation: Hydrolysis > 70% (28 days, pH 6 - 8, OECD 111). It is equivalent to a rapid biodegradability in accordance with Directive 67/548/CE, Annex VI.

#### *Other data.*

In aqueous solution this product may be eliminated by flocculation and precipitation. It is easily removed from the aqueous media in presence of suspended matter.

This is a high molecular weight, for this reason it will not permeate the membrane cell. There will be no bio-accumulation.

## 13 - Disposal Considerations.

### 13.1 - Waste from residues / unused product.

If this product must be disposed as a waste the final user must do it accordingly with the European, national and local regulations. Use only authorised companies.

### 13.2 - Used / empty containers.

Drums and residual product may be rinsed out with water. Use washing water in the process where the product is applied as dilution water.. Then the empty container will be disposed taking into account Section 13.1.

### 13.3 - Other information.

Keep the same recommendations provided in Sections 7 and 8 of this MSDS.

## 14 - Transport Information.

### 14.1 - Land transport (ADR).

Not regulated.

### 14.2 - Marine transport (IMDG).

Not regulated.

### 14.3 - Railway transport (RID).

Not regulated.

### 14.4 - Air transport (ICAO/IATA).

Not regulated.

## 15 - Regulatory Information.

### 15.1 - Symbol.

None.

### 15.2 - Risk phrases.

None.

### 15.3 - Safety phrases.

S24/25 - Avoid contact with eyes and skin.

S37/39- Wear suitable gloves and eye/face protection

### 15.4 - Additional information.

The preceding classification has been made in accordance with Directives 67/548/CEE and 1999/45/CE and their subsequent modifications until the MSDS edition date.

### 15.5 - Other regulations.

REACH (Europe) - All the ingredients of this product are pre-registered in accordance with the European regulation 1907/2006.

## 16 - Other Information.

### 16.1 - Risk phrases mentioned in this MSDS.

R22: Harmful if swallowed.

R36: Irritating to eyes .

R41: Risk of serious damage to eyes

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R50: Very toxic to aquatic organisms.

R65: Harmful: may cause lung damage if swallowed

**16.2 - Additional recommendations.**

None.

**16.3 - Contacts.**

About the product: Sales department - Tel 0161 877 2334

About this MSDS: Technical department - Tel 0161 877 2334

**16.4 - MSDS revision.**

All sections of this MSDS have been revised.

This Material Safety Data Sheet has been made in accordance with REACH and all modifications of the applicable regulations until this MSDS edition date.

**16.5 - Other information.**

Abbreviations: na - Not applicable. ne - Not evaluated.