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| Revision Date: | 30 th Aug 2002 |
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MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product Name: Accepta 4360

Supplier: Accepta Ltd
Statham House, Talbot Rd
Manchester, M32 0FP, United Kingdom

Telephone Number: +44 (0) 161 877 2334 **Fax:** +44 (0) 870 135 6389

Product Use: Process aid for industrial applications.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation : Anionic polymer in solution

3. HAZARDS IDENTIFICATION

Aqueous solutions or powders that become wet render surfaces extremely slippery surfaces.

4. FIRST AID MEASURES

Inhalation : Move to fresh air.

Skin contact : Wash with soap and water as a precaution. In case of persistent skin irritation, consult a physician.

Eye contact : Rinse thoroughly with plenty of water, also under the eyelids. In case of persistent eye irritation, consult a physician.

Ingestion : The product is not considered toxic based on studies on laboratory animals.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : WATER, WATER SPRAY, FOAM, CARBON DIOXIDE (CO₂), DRY POWDER.

Special fire-fighting precautions : Spills produce extremely slippery surfaces.

Special protective equipment for firefighters : No special protective equipment required.

Product Name: Accepta 4360**6. ACCIDENTAL RELEASE MEASURES**

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| Personal precautions : | No special precautions required. |
| Environmental precautions : | Do not contaminate water. |
| Methods for cleaning up : | <u>Do not flush with water.</u> Dam up. Soak up with inert absorbent material. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. <u>After cleaning,</u> flush away traces with water. |

7. HANDLING AND STORAGE

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| Handling : | Avoid contact with skin and eyes. Wash hands before breaks and at the end of the work day. |
| Storage : | Keep in a dry, cool place (0 - 30°C) |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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| Engineering measures to reduce exposure : | Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists. |
| Personal protection equipment | |
| - Respiratory protection : | Not applicable |
| - Hand protection : | Rubber gloves. |
| - Eye protection : | Safety glasses with side-shields. Do not wear contact lenses. |
| - Skin and body protection : | Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely. |
| - Hygiene measures : | Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Form : | Liquid |
| Colour : | Clear |
| pH : | 4-9 See Technical Bulletin for specific value. |
| Flash point (°C) : | Not applicable |
| Autoignition temperature (°C) : | Not applicable |
| Vapour pressure (mm Hg) : | No data available |
| Water solubility : | Completely miscible. |
| Viscosity (mPa.s) : | See Technical Bulletin. |

Product Name: Accepta 4360**10. STABILITY AND REACTIVITY**

- Stability :** Product is stable, no hazardous polymerisation will occur.
- Materials to avoid :** Oxidising agents may cause exothermic reactions.
- Hazardous decomposition products :** No decomposition if stored and applied as directed. Burning of the dried material can produce: nitrogen oxides (NO_x), carbon oxides.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

- **Oral :** LD50 / oral / rat > 5000 mg/kg (estimated).
- **Dermal :** The results of testing on rabbits showed this material to be non toxic even at high dose levels.
- **Inhalation :** The product is not expected to be toxic by inhalation.

Irritation

- **Skin :** Testing conducted on rabbits according to the Draize technique showed the material not to be irritating to the skin.
- **Eyes :** Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight conjunctival effects.

Sensitisation The results of testing on pigs showed this material to be non-sensitising.

Chronic Toxicity A two year feeding study on rats did not reveal adverse health effects. A one year feeding study on dogs did not reveal adverse health effects.

12. ECOLOGICAL INFORMATION**Acute aquatic toxicity**

- **Fish** LC50 / *Danio rerio* / 96 hours > 100 mg/l (OECD 203).
- **Daphnids** EC50 / *Daphnia magna* / 48 hours > 100 mg/L (OECD 202).
- **Algae** IC50/*Scenedesmus subspicatus*/72 hours>100mg/L (OECD 201)
- **Biodegradation :** Not readily biodegradable.
- **LogP_{ow} :** 0
- **Bioaccumulation :** Does not bioaccumulate

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13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products: In accordance with local and national regulations.

Contaminated packaging: Rinse empty containers with water and use the rinse water to prepare the working solution. Can be land filled or incinerated, when in compliance with local regulations.

14. TRANSPORT INFORMATION

Remarks : Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

Inventory status :

EINECS (Europe) Existing polymer according to the definition in the 7th Amendment to Directive 67/548/EEC. All starting materials and additives are listed in EINECS.

TSCA (USA) : Complies with all applicable rules or orders under TSCA.

DSL (Canada) : All components listed on inventory.

AICS (Australia) : All components listed on inventory.

ECL (Korea) : All components listed on inventory.

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16. OTHER INFORMATION

Further information:

This MSDS was prepared in accordance with the following:

Council Directive 92/32/EEC of 30 April 1992 amending for the seventh time Directive 67/548/EEC on the approximation of the laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances and all subsequent adaptations to technical progress.

Directive 1999/45/EC of the European Parliament and of the Council of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.

Commission Directive 2001/58/EC of 27 July 2001 amending for the second time Directive 91/155/EEC defining and laying down the detailed arrangements for the system of specific information relating to dangerous preparations in implementation of Article 14 of European Parliament and Council Directive 1999/45/EC and relating to dangerous substances in implementation of Article 27 of Council Directive 67/548/EEC (safety data sheets).

ISO 110140-1 : Material Safety Data Sheet for Chemical Product.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, process, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.