

Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name : **Accepta 4219**
Company : Accepta Limited
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Product Use : Processing aid for industrial applications.

2. HAZARDS IDENTIFICATION

Hazard Identification

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification : Cationic water-soluble polymer.

Regulated Components

Chemical Name	EC-No.:	Classification :	Weight %
Adipic acid	204-673-3	R36	<= 2.5
Sulfamic acid	226-218-8	Xi; R36/38; R52/53	<= 2.5

The wording of the hazard symbols and Risk phrases is specified in section 16 if dangerous ingredients are mentioned.

4. FIRST AID MEASURES

Inhalation : No hazards which require special first aid measures.

Skin contact : No hazards which require special first aid measures. Wash with water and soap 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 : No hazards which require special first aid measures. 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.

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

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : No special precautions required.

Environmental precautions : As with all chemical products, do not flush into surface water.

Methods for cleaning up : Do not flush with water . Clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Handling

Safe handling advice : Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday.

Storage

Keep in a cool, dry place (0 - 35 °C).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

Personal protective equipment

Respiratory protection : Dust safety masks recommended where working powder concentration is more than 10 mg/m³.

Hand protection : Rubber gloves.

Eye protection : Safety glasses with side-shields. Do not wear contact lenses where this product is used.

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 at the end of workday. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Granular solid

Color : White

Odor : None

pH : 2.5 - 4.5 @ 5 g/1

Flash point : Not applicable

Boiling point (°C) : Not applicable

Autoignition temperature : Not applicable

Approx. bulk density : 0.85

Water solubility : See Technical Bulletin

LogPow : 0

10. STABILITY AND REACTIVITY

Stability : Stable. Hazardous polymerisation does not occur.

Materials to avoid : Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products : Thermal decomposition may produce. Hydrogen chloride gas. Nitrogen oxides (NO_x). Carbon oxides (CO_x).

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral : LD50/oral/rat > 5000 mg/kg.

Skin : 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 : Based on laboratory tests, this product does not cause skin irritation.

Eyes : Testing conducted according to the Draize technique showed the material produces no corneal or iridial effects and only slight transitory conjunctival effects similar to those which all granular materials have on conjunctivae.

Sensitization

The results of testing on guinea pigs showed this material to be non-sensitizing.

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.

Regulated Components

Acute toxicity

Chemical Name	Oral	Dermal	Inhalation
Adipic acid	LD50/rat > 5000 mg/kg	LD50/rabbit > 5000 mg/kg	LC50/4 h/rat > 7.7 mg/L
Sulfamic acid	LD50/oral/rat = 3160 mg/kg	No data available	No data available

Irritation

Chemical Name	Skin :	Eyes :
Adipic acid	Not irritating	Irritating to eyes
Sulfamic acid	Irritating to skin	Irritating to eyes

Sensitization

Chemical Name	Sensitization
Adipic acid	Not sensitizing
Sulfamic acid	No information available

Chronic toxicity

No long-term effects.

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Toxicity to fish :

LC50/96 h. > 10-100 mg/l. (OECD 203).

Toxicity to daphnia :

EC50/48 h. > 50 mg/l. (OECD 202).

Toxicity to algae :

Algal inhibition tests are not appropriate. The flocculation characteristics of the product interfere directly in the test medium preventing homogenous distribution which invalidates the test.

Environmental fate

Hydrolysis : At natural pHs (>6) the polymer degrades due to hydrolysis to more than 70% in 28 days. The hydrolysis products are not harmful to aquatic organisms.

Bioaccumulation : Does not bioaccumulate.

LogPow : 0

Other ecological information :

The effects of this product on aquatic organisms are rapidly and significantly mitigated by the presence of dissolved organic carbon in the aquatic environment.

Regulated Components

Aquatic toxicity

Chemical Name	Toxicity to fish :	Toxicity to daphnia :	Toxicity to algae :
Adipic acid	LC50/96 h. = 97 mg/1	EC50/48 h. = 85.6 mg/1	EC50 /72 h. = 31.3 mg/1
Sulfamic acid	LC50/96 h. = 70.3 mg/1	EC50/48 h. > 5000 mg/1	No information available

Environmental fate

Chemical Name	Persistence and degradability :	Hydrolysis :	LogPow :	Bioaccumulation :
Adipic acid	Readily biodegradable	No data available	0.093	Does not bioaccumulate
Sulfamic acid	No data available	No data available	No data available	No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : In accordance with local, state and federal regulations.

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

14. TRANSPORT INFORMATION

ADR/RID

Not classified as dangerous in the meaning of **ADR/RID** regulations.

IMDG/IMO

Not classified as dangerous in the meaning of IMO/IMDG transport regulations.

ICAO/IATA

Not classified as dangerous in the meaning of ICAO/IATA transport regulations.

15. REGULATORY INFORMATION

Classification and Labelling

This product is not classified as dangerous and need not to be labelled according to EC-Directives as amended.

International Inventories

European Union (REACH) :

All components of this product have been registered or pre-registered with the European Chemicals Agency or are exempt from registration.

USA (TSCA): All components of this product are either listed on the inventory or are exempt from listing.

Canada (DSL) : All components of this product are either listed on the inventory or are exempt from listing.

Australia (AICS) : All components of this product are either listed on the inventory or are exempt from listing.

Japan (ENCS) : All components of this product are either listed on the inventory or are exempt from listing.

China (IECSC) : All components of this product are either listed on the inventory or are exempt from listing.

Korea (ECL) : All components of this product are either listed on the inventory or are exempt from listing.

16. OTHER INFORMATION

Further information

Text of R phrases mentioned in Section 3:

Xi - Irritant

R36 - Irritating to eyes.

R36/38 - Irritating to eyes and skin

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This MSDS was prepared in accordance with the following:

Directive 1999/45/EC

Directive 67/548/EEC

Regulation (EC) N° 1272/2008

Regulation (EC) N° 1907/2006

as amended.

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 a guidance for safe handling, use, processing, 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.