



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Product name: Lingel™ 940
Company: Lincoln Fine Ingredients
50 Industrial Circle
Lincoln RI 02865
401-722-2410 / 401-727-0752
Emergency: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Identification of the preparation: Polyacrylic acid
CAS #: 9003-01-4

3. HAZARDS IDENTIFICATION

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

4. FIRST AID MEASURES

Inhalation: Move to fresh air

Skin contact: 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: 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: 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: Do not contaminate water.

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

7. HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of workday. For further information, see Safe Handling Booklet.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: The Industrial Hygiene Guideline is 0.05 mg/m³ respirable superabsorbent polymer dust (respirable dust has a particle size of less than 10 µm). See §11: Toxicological information.

Personal protection equipment

Respiratory protection: Ventilated respirator with P3 filter cartridge if respirable dust (particle size < 10 µm) exceeds 0.05 mg/m³.

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 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: 3 (0.5% aqueous solution)

Melting point (°C): Not applicable.

Flash point (°C): Does not flash.

Autoignition temperature (°C): > 450

Vapor pressure (mm Hg): Not applicable.

Bulk density: See Technical Bulletin.

Water solubility : See Technical Bulletin.

Viscosity (mPa.s): See Technical Bulletin.

10. STABILITY AND REACTIVITY

Stability: Product is stable, no hazardous polymerization will occur.

Materials to avoid: strong bases, Oxidizing agents may cause exothermic reactions.

Hazardous decomposition products: Thermal decomposition may produce : nitrogen oxides (NO_x), carbon oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral: LD50/oral/rat > 4000 mg/kg

Irritation

Skin: Not irritating.

Eyes: May cause eye irritation with susceptible persons.

Chronic toxicity: A chronic (2-year) inhalation study on rats using micronized superabsorbent dust with a particle size of 2 µm established a definite NOEL of 0.05 mg/m³. In a few of the test animals, a non-specific inflammatory response was observed at the intermediate dose level of 0.2 mg/m. The only tumorigenic response occurred in the lungs of a few rats at the high dose level of 0.8 mg/m³. The Industrial Hygiene Guideline of 0.05 mg/m³ respirable superabsorbent polymer dust (particle size < 10µm) is based on the results of this study.

12. ECOLOGICAL INFORMATION

Acute aquatic toxicity

Fish: LC50/48h/bluegill sunfish = 660 mg/l

Daphnids: EC50/Daphnia magna/48 hours = 210 mg/l

Environmental fate

Hydrolysis: Does not hydrolyze.

Biodegradation: Not readily biodegradable.

LogP_{ow}: 0

Bioaccumulation: Does not bioaccumulate.

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 landfilled 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

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

Inventory status:

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

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

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 labeling 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 labeling 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 11014-1: Material Safety Data Sheet for Chemical Products.

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.