



Emergency Number :613-996-6666 (Canutec 24h)

MATERIAL SAFETY DATASHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product name: IRONSORB 1805-3

Company: CNS INC.
159 Pere Divet Street
Sept-Iles, Quebec, G4R 3P5 Canada

Telephone: (418)-962-6523
Fax: (819)-948-9149

Product Use: Humidity Absorbent for Iron Ore transportation (DSO)

2. HAZARDS IDENTIFICATION

Appearance and Odor:

Form: Granular solid

Color: Off-white to light brown

WHMIS Classification: Not controlled.

Other information:
The product swells in water.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Identification: Superabsorbent polyacrylamide.

Regulated Components: None.

4. FIRST AID MEASURES

Inhalation: No hazards which require special first aid measures.

Skin contact: No hazards which require special first aid measures.

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

Ingestion: Rinse mouth. Do not induce vomiting. No hazards which require special first aid measures.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water. Water spray. Foam. Carbon dioxide (CO₂). Dry powder.

Precautions: The product swells in water.

Special protective equipment for firefighters: Wear self-contained breathing apparatus and protective suit.

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: Clean up promptly by sweeping 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.

Storage: Keep in a dry place.

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 are recommended where concentration of total dust is more than 10 mg/m³.

Hand protection: Gloves are recommended.

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

Skin and body protection: No special protective equipment required.

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: Off-white to light brown

Melting point/range (°C): Not applicable

Flash point (°C): Not applicable

Autoignition temperature (°C): Not applicable

Approx. bulk density: 0.65 - 0.75

Water solubility: Insoluble

LogPow: Insoluble

10. STABILITY AND REACTIVITY

Stability: Stable. Hazardous polymerisation does not occur.

Materials to avoid: The product swells in water.

Hazardous decomposition products: Thermal decomposition may produce: nitrogen oxides (NO_x), carbon oxides (CO_x), hydrogen cyanide (hydrocyanic acid).

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

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

Dermal: LD50/dermal/rabbit > 5000 mg/kg.

Irritation:

Skin: Not irritating.

Eyes: Moderate eye irritation due to effects all powders have on conjunctivae.

Sensitization: Not sensitizing.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

Toxicity to fish: Aquatic toxicity is unlikely due to low solubility

Toxicity to daphnia: Aquatic toxicity is unlikely due to low solubility

Toxicity to algae: Aquatic toxicity is unlikely due to low solubility

Environmental fate:

Persistence and degradability: Not readily biodegradable.

Hydrolysis: Does not hydrolyse.

Bioaccumulation: Does not bioaccumulate.

LogPow: Insoluble.

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging: Can be landfilled or incinerated, when in compliance with local, state and federal regulations.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

WHMIS Classification: Not controlled.

Ingredient Disclosure List (IDL): No components listed on the WHMIS ingredients disclosure list.

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

16. OTHER INFORMATION

This MSDS was prepared in accordance with the following:

ISO 11014-1: Material Safety Data Sheet for Chemical Products

The data in this Material Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained