

Section 1: Chemical Product**Product Name:** MIBC-F**Product Description:** Frother**Grade:** Chemical**Section 2: Identification**

MIBC-F is a flotation frother with a broad range and good selectivity. Basic component of MIBC-F is alkyl alkanol ether. MIBC-F is used chiefly as an ore flotation agent, for recovery of valuable mineral from ores and also for coal washing. It is also used as a solvent/co-solvent for formulation of dyes, oils, resins and other industrial, pharmaceutical or agrochemical products. It may be also used with surfactants to compatibilise essential oils, perfumes, mineral oils.

It can be compared with MIBC in its applications and is from MIBC family.

MIBC-F is applied together with DOW-250, AIRO-65 and PEB-70 promoter to increase of selectivity and recovery. MIBC-F is used in flotation at alkaline pH (4-12). Dosage rate of MIBC-F depends on ore type, grinding size and water quality. The dosage is usually between 10-40g/t.

Section 3: Hazard Identification

Potential Acute Health Effects: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Section 4: First Aid Measures

Eye Contact: Flush immediately with plenty of water. If irritation persists, get medical attention.

Skin Contact: Flush immediately with plenty of water. If irritation persists, get medical attention.

Inhalation: If breathing is affected, remove to fresh air. Get medical attention.

Ingestion: Immediately drink one cup of water or milk. Never give anything by mouth to an unconscious person. Get medical attention.

Aggravated Medical Conditions: Person with pre-existing skin disorders may be more susceptible to irritating effects.

Section 5: Fire and Explosion Data

Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO2) or dry powder.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Flash Point, °C: 60

Auto Ignition Temperature: Not Available.



Section 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment.

Environmental Precautions and Clean-up Methods: Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Use a water rinse for final clean-up.

Section 7: Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from open flames, hot surfaces and sources of ignition.

Storage: Store in a tightly closed container with well-ventilated at temperature <35 °C away from direct sunlight and moisture.

Packing and Shipment: MIBC-F is packed in 200 lit (net: 180 kg) galvanized drums, each 4 drums strapped on a pallet and polymeric (plastic) materials.

Section 8: Exposure Controls/Personal Protection

Engineering Measures: Ensure adequate ventilation.

Respiratory Protection: Breathing apparatus needed only when aerosol, vapor or dust is formed.

Skin and Body Protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye Protection: Safety glasses with side-shields.

Hand Protection: Gloves.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Colorless

Odour: A Little Pungent

pH (5% in Water): 5-7

Water Solubility: Soluble

Solubility in Other Solvents: Ethanol, Methanol, Aceton, Light Ethers and Light Alcohols

Density at 25 °C: 0.90±0.02

Flash Point, °C: 60

Cloudy Point, °C: <7

Freezing Point, °C: <14



Section 10: Stability and Reactivity Data

Stability: Stable under recommended storage conditions.

To Avoid: Strong oxidizing agents.

Conditions to Avoid: Keep away from heat and sources of ignition. Store containers out of direct sunlight at room temperatures.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Eye contact.

Toxicity to Animals:

Acute Oral Toxicity (LD50): 2590mg/kg [Rat].

Acute Dermal Toxicity (LD50): 3560mg/kg [Rabbit].

Special Remarks on Toxicity to Animals: Not Available.

Chronic Effects on Humans: Not Available.

Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).

Special Remarks on Chronic Effects on Humans: May affect genetic material and cause adverse reproductive effects and birth defects based on animal studies.

Special Remarks on Other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: May cause skin irritation. However, brief contact is not known to be irritating.

Eyes: Causes severe eye irritation and conjunctivitis with possible chemical burns of the eye. Ingestion may cause abdominal discomfort, nausea, vomiting, and diarrhea. Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury. May affect behavior (somnolence, tremor), respiratory system (acute pulmonary edema), metabolism and liver.

Inhalation: Mist may cause irritation of the respiratory tract experienced as nasal discomfort and discharge with chest pain and coughing. May affect respiration experienced as audible respiration, and mouth breathing, and distended abdomen.

Chronic Potential Health Effects:

Ingestion: Prolonged or repeated ingestion may affect the liver and metabolism.

Section 12: Ecological Information

Ecotoxicity:

Ecotoxicity in water (LD50): Not Available.

BOD5 and COD: Not Available.

Products of Biodegradation: Possibly hazard short term degradation products are not likely. However, long term degradation products may rise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.



Section 13: Disposal Considerations

Waste Treatment Methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging Disposal Recommendations: Dispose in a safe manner in accordance with local/national regulations.
Dispose of contents/container to hazard or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional Information: Flammable vapors may accumulate in the container. Handle empty containers with care because residual vapors are flammable.

Ecology Waste Materials: Avoid release to the environment.

Section 14: Transport Information

RID/ADR: No limitation for road transport.

IMDG: No limitation for sea transport.

IATA: No limitation for air transport.

Section 15: Regulatory Information

All components of this product are present and listed as active on the united states environmental protection agency toxic substances control act (TSCA) inventory. This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the superfund amendments and reauthorization act of 1986 and 40 CFR Part 372.

Section 16: Other Information

Reason for Issue: Change in physical properties This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorized use of this information or for any modified or altered versions. If you are an employer, it is your duty to tell your employees, and any others that may be affected, of any hazard described in this sheet and of any precautions that should be taken. Safety data sheets are updated frequently. Please ensure you have a current copy.

Created: November 2020.

Last Updated: November 2024.



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