



Demsa BC MI10 - Dry Chemical Powders - Safety Sheet

Product and Material Safety Data Sheet:

Demsa BC MI10

Dry Chemical Powders

Fire Classes:

BC - USA standards / AB(E) - EEC standards.

1. Identification of the Substance and of the Company Undertaking

Product Name:

Demsa BC MI10

Product Description:

Dry Chemical Fire Extinguisher Recharge - Fire Extinguishing Agent.

Manufacturer/Supplier:

Industrias Químicas Dem S.A.

Address:

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Safety Data Sheet according to EC directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200).

2. Hazards Identification

No hazardous material

SIDE EFFECTS	
Routes of Exposure	Eye contact - Skin contact - Inhalation.
Target Organs	Eye - Skin - Respiratory System.
Health Effects - Eyes	Contact for short periods of time may cause irritation.
Health Effects - Skin	Contact may cause mild irritation.
Health Effects - Ingestion	Ingestion is not an expected route of exposure.
Health Effects - Inhalation	May irritate the respiratory tract. May cause transient cough and shortness of breath.

Medical conditions which may be aggravated by inhalation or dermal exposure: Persons with unusual (hyper) sensitivity to such chemicals may experience adverse reactions to this product.

Carcinogenic potential: This product and its ingredients are not listed as a carcinogen by NTP, OSHA, ACGIH or IARC.

3. First Aid Measures

Eyes: Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin: Wash affected area with soap and water. Obtain medical attention if irritation persists.

Ingestion: Dilute by drinking large quantities of water and obtain medical attention.

Inhalation: Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.
Advice to Physicians: Treat symptomatically.

Advice to the doctors: To treat in agreement to the symptomatology.

4. Composition / Information on ingredients

Chemical Name	%	CAS Number	EC Number	Class
Potassium Bicarbonate	85-95	298-14-6	206-059-0	Not Listed
Urea	3-7	57-13-6	200-315-5	Not Listed
Others	<12	Not Listed	Not Listed	Not Listed

5. Fire Fighting Measures

Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not flammable. Use extinguishing agent appropriate to other materials involved.

This extinguishing agent is mainly used inside pressurized fire extinguishers. Keep pressurized extinguishers and



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surroundings cool as they may rupture or explode in the heat of a fire.

Protective Equipment for Fire-Fighting: Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. Accidental Release Measures

Sweep up or vacuum. Prevent skin and eye contact. Wear appropriate protective equipment. To remove the product rapidly from other incompatible products (alkaline materials and caustic products).

7. Storage

When stored in bulk:

Keep in its original container or appropriate end-use container. Storage area should be cool, dry, well ventilated, under cover and out of direct sunlight. The powder's integrity depends on the prevalent storage conditions.

It is highly recommended to store in temperatures between 4°C to 49°C/35°F to 120°F (ideal storing temperature is 20°C +/- 2°C/64.4°F to 71.6°F), dry places (60% +/- 5% relative humidity), avoid sudden weather conditions changes, do not stack the pallets, handle the packages with care and maintain the product in its original, tight sealed packaging until use.

When inside pressurized extinguishers:

Pressurized extinguishers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll extinguishers. Do not drop extinguishers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the extinguisher. Store pressurized extinguishers and plastic containers away from high heat sources.

8. Handling - Exposure controls and personal protection

Engineering Control Measures:

Use with adequate ventilation. There should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.

Respiratory Protection:

Use dust mask where dustiness is prevalent, or TLV is exceeded. NIOSH or MSHA approved particulate filter respirators should be used in the context of respiratory protection program meeting the requirements of the OSHA respiratory protection standard [29 CFR 1910.134] to control exposures when ventilation or other controls are inadequate or discomfort or irritation is experienced.

Skin Protection - Hand and Body Protection:

Skin contact should be minimized through use of latex gloves and suitable long sleeved clothing. Hand protection is not normally needed when used in a portable fire extinguisher.

Eye Protection:

Chemical goggles or safety glasses with side shields.

Work Practice Controls:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material: Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash exposed skin promptly to remove accidental splashes or contact with this material.

9. Physical and chemical properties

PHYSICAL STATE	SOLID POWDER
Color	White
Odor	Odorless
Specific Gravity (H ₂ O=1):	>0.85 g/m ³
PH	8.0/9.0
Boiling Range/Point (°C/F)	> 500°C
Flash Point (PMCC) (°C/F)	Not Flammable
Solubility in Water	Not soluble
Vapor Density (Air = 1)	Heavier than air
Vapor Pressure	Not applicable
Evaporation Rate	Not applicable



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10. Stability and reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Heat - High temperatures - Exposure to direct sunlight.

Materials to Avoid: Strong oxidizing agents - strong acids - sodium hypochlorite.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products: Oxides of carbon.

11. Toxicological information

Acute Toxicity: Low order of acute toxicity.

Chronic Toxicity: This product is not expected to cause long term adverse health effects. Mica and clay may contain small quantities of quartz (crystalline silica) as an impurity.

Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis.

Genotoxicity: This product is not expected to cause any mutagenic effects.

Reproductive & Developmental Toxicity: This product is not expected to cause adverse reproductive effects.

12. Ecological information

Mobility: No relevant studies identified.

Persistence/Degradability: No relevant studies identified.

Bio-accumulation: No relevant studies identified.

Ecotoxicity: No relevant studies identified.

13. Disposal considerations

Dispose of container in accordance with all applicable local and national regulations. Do not cut, puncture or weld on or near to the container. No harm to the environment is expected from this preparation.

14. Information relating to transport

Classified as NOT DANGEROUS with respect to the transport regulation.

This product is not regulated for transport (ADR/RID,IMDG,IATA)

Regulatory Information

Classified as a NON-DANGEROUS substance.

WARNING: MAY CAUSE EYE AND/OR SKIN IRRITATION

EEC regulations

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments (2001/60/EC and 2006/8/EC) EU Risk (R) and Safety (S) Phrases -

R22 - Harmful if swallowed

R36/37/38 - Irritating to eyes, respiratory system and skin.

S2 - Keep out of the reach of children

S24/25 - Avoid contact with skin and eyes

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S28 - After contact with skin, wash immediately with plenty of soap and water or a recognized skin cleaner

S36/37 - Wear suitable protective clothing and gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S53 - Avoid exposure - obtain special instructions before use.

S46 - If swallowed, seek medical advice immediately and show this container or label.

EEUU regulations

OSHA Hazard Communication Standard, 29 CFR 1910.1200

This product is not considered a "hazardous chemical" under this regulation but could be included in the employer's hazard communication program.

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15. Regulatory information

This product is not considered a “product hazardous chemical” under this SYSTEM GLOBALLY HARMONIZED, but it could be included in the hazard communication program from the employer.

Labeling requirements according to GHS



According to Table A3.1.2

Code: H316 / H335

Signal word: Attention.

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

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