MULCRETE

ARCHITECTURAL
CONCRETE ADMIXTURES

SAFETY DATA SHEET

SUPERPLASTICIZER

High-performance polymer blend for GFRC, UHPC and Wet Cast

26 lb (12 kgs)

- Significantly increases concrete strenght.
- Enhances flowability and workability.
- Reduces curing time.
- Eliminates air bubbles.
- Provides a smooth finish.
- Fully compatible with Mulcrete products.

Complies with ASTM C-494 Type S.
Prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200 **) and GHS Revision 3.**

This Safety Data Sheet has been prepared in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200(g)) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS), Revision 3."

SECTION I. IDENTIFICATION OF THE HAZARDOUS CHEMICAL OR MIXTURE AND OF THE SUPPLIER OR MANUFACTURER.

Product Identifier:

Superplasticizer

Product Name:

SUPERPLASTICIZER

Other Means of Identification:

Superplasticizer concrete admixture.

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use:

GFRC (Glass Fiber Reinforced Concrete); professional use; polymer-based preparations and components.

Restrictions on Use:

Not for consumer use. Not for direct handling without adequate ventilation.

Manufacturer/Supplier:

Name: Mulcrete, Mexico S.A.

Address: Calle Praga #4336, Col. Las Torres, Monterrey, N.L., México

Phone Number: +1 (619) 339 0780

Email: info@mulcrete.com

Emergency Phone Number (24 hours): +1 (619) 339 0780

SECTION 2. HAZARD IDENTIFICATION

GHS Classification (Hazard Category)

Not classified.

This substance/mixture is not considered hazardous according to the Globally Harmonized System (GHS).

Signal Word

None.

Hazard Statements (H-codes)

Not applicable.

No hazard statements assigned.

Precautionary Statements (P-codes)

Not applicable.

GHS Pictograms

Classification System

NFPA / HMIS Rating Definitions:

0 = Minimum • 1 = Slight • 2 = Moderate • 3 = Serious • 4 = Severe

NFPA Rating (0–4):

- Health: 1
- Fire: 0
- Reactivity: 0

HMIS Rating (0–4):

- Health: 1
- Fire: 0
- Physical Hazard: 0

Other Hazards Not Otherwise Classified (HNOC)

No other hazards identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

According to OSHA Hazard Communication Standard 2012; 29 CFR Part 1910.1200

Common Name	Chemical Name	% by Weight
Superplasticizer	Proprietary superplasticizer concrete admixture.	30 – 70%

The product does not contain components classified as hazardous to health above the limit values established by the applicable legislation.

SECTION 4: FIRST AID MEASURES

Exposure Route	First Aid Measures
General Advice	Remove contaminated clothing. Seek medical attention if symptoms persist.
Inhalation	If discomfort occurs after inhalation of dust, move the affected person to fresh air. Seek medical attention if symptoms persist.
Skin Contact	Wash thoroughly with soap and plenty of water. If skin irritation persists, seek medical attention.
Eye Contact	Rinse eyes cautiously with running water for at least 15 minutes, keeping eyelids open. Remove contact lenses if present and easy to do. Seek medical attention if irritation persists.
Ingestion	Rinse mouth thoroughly and drink 200–300 mL of water. Do not induce vomiting. Seek medical attention.
Most Important Symptoms and Effects (Acute and Delayed)	No known significant symptoms or effects at this time.
Indication of Immediate Medical Attention and Special Treatment Needed	No specific treatment required; treat symptomatically.

SECTION 4. FIRST AID MEASURES

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms: If dust is generated and inhaled, it may cause coughing and sneezing.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians: Treat symptoms.

SECTION 5: FIRE-FIGHTING MEASURES

Measure	Information
Suitable Extinguishing Media	Dry powder extinguisher, foam.
Unsuitable Extinguishing Media	Carbon dioxide (CO_2), for safety reasons.
Specific Hazards Arising from the Chemical	Formation of combustible dust-air mixtures. Dust clouds may present an explosion hazard.
Additional Information	Avoid the formation of dust from the substance/product due to the risk of dust explosion.
Special Protective Equipment for Firefighters	Firefighters should wear self-contained breathing apparatus (SCBA) and appropriate protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Category	**Information**
Personal Precautions, Protective Equipment and Emergency Procedures	**Closed containers should be opened only in well-ventilated areas. Avoid breathing dust. Ensure adequate ventilation. Use appropriate personal protective equipment.**
Fire and Explosion Protection	**In the presence of air, dust may form explosive mixtures. Avoid dust generation and sources of ignition.**

SECTION 6. ACCIDENTAL RELEASE MEASURES

Category	**Information**
Environmental Precautions	**Prevent uncontrolled release into the environment.**
Methods and Materials for Containment	**Collect spilled material carefully to avoid dust formation. Transfer into properly labeled containers.**
Methods for Cleaning Up	**Collect mechanically or using non-sparking tools. Avoid generating dust during cleanup.**
Other Information	**Refer to protective measures listed in Sections 7 and 8.**

SECTION 7. HANDLING AND STORAGE

Category	Information
Exposure Limits	This product does not contain components with occupational exposure limits established by OSHA or other regulatory agencies.
Engineering Controls	Ensure adequate ventilation. Use local exhaust ventilation where dust may be generated. Eyewash stations should be available in the work area.
Respiratory Protection	Use a NIOSH-approved particulate respirator (or equivalent) when dust is generated. Follow OSHA respiratory protection regulations (29 CFR 1910.134).
Hand Protection	Wear chemical-resistant protective gloves.
Eye / Face Protection	Safety glasses with side shields. Use a face shield if there is a risk of dust dispersion.
Skin and Body Protection	Select protective clothing based on the activity and potential exposure, such as protective work clothing, apron, safety boots, and head protection if required.
Hygiene Measures	Avoid breathing dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke while handling the product.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Category	Information
Hand Protection	Wear protective gloves suitable for industrial use.
Respiratory Protection	Under normal conditions of use, respiratory protection is not required. If dust is generated or irritation occurs, use a NIOSH-approved particulate respirator and ensure adequate ventilation.
Eye Protection	Safety glasses with side shields when handling the product or when dust may be generated.
Skin and Body Protection	Wear appropriate work clothing to minimize skin contact.
General Hygiene Considerations	Avoid breathing dust. Wash hands thoroughly after handling. Do not eat, drink, or smoke during use.
Environmental Exposure Controls	Do not allow the product to enter sewers, soil, or bodies of water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Property	**Value**
Physical Form	Powder
Odor	Characteristic
Odor Threshold	No applicable information available
Color	Yellow to brown

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Property	Value
pH Value	Approx. 6.5 – 8.5
Autoignition	360 °C
Density	1 g/cm^3
Specific Weight	300 – 550 kg/m^3

SECTION 10. STABILITY AND REACTIVITY

Category	Information
Reactivity	No hazardous reactions are expected when handled and stored in accordance with recommendations.
Chemical Stability	Stable under normal conditions of storage and use.
Corrosive to Metals	Not expected to be corrosive to metals.
Oxidizing Properties	Not oxidizing.
Possibility of Hazardous Reactions	Risk of dust explosion when dispersed in air under ignition conditions.
Minimum Ignition Energy	30 – 100 mJ (Inductance: 1 mH).
Particle Size Distribution	< 63 µm.

Category	Information
Incompatible Materials	Strong acids, strong bases, strong oxidizing agents, strong reducing agents.
Hazardous Decomposition Products	No hazardous decomposition products are expected when handled and stored as recommended.
Thermal Decomposition	> 180 °C. No decomposition if stored and applied as prescribed.

SECTION 11: TOXICOLOGICAL INFORMATION

Category	Information
Primary Routes of Exposure	Routes of entry for solids include ingestion and inhalation; skin and eye contact may also occur.
Possible Routes of Exposure	Inhalation, eye contact, skin contact, ingestion.
Acute Toxicity	Based on available data, the product is practically non-toxic after a single oral ingestion, a single inhalation exposure, or a single dermal contact.
Acute Toxicity Assessment	Based on available data, the classification criteria are not met under GHS.
Inhalation	No specific test data available for the substance or mixture. Dust inhalation may cause mild mechanical irritation.
Eye Contact	No specific test data available. Dust may cause temporary mechanical irritation.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Contact	No specific test data available. Prolonged or repeated contact may cause mild irritation.
Ingestion	No specific test data available. Accidental ingestion is not expected to cause significant adverse effects.
Symptoms Related to Physical, Chemical, and Toxicological Characteristics	No specific symptoms known under normal conditions of use.
Numerical Measures of Toxicity	No data available.
Additional Information	This product does not contain components classified as hazardous to health above established regulatory limits.

SECTION 12: ECOLOGICAL INFORMATION

Category	Information
Ecotoxicity	Based on available data, the product does not meet the criteria for classification as hazardous to the aquatic environment. There is a high probability that the product is not harmful to aquatic organisms.
Aquatic Toxicity	LC50 (96 h), fish: not determined.
Persistence and Degradability	No information available.
Bioaccumulative Potential	No information available.
Delayed and Immediate Effects, as well as Chronic Effects from Short- and Long-Term Exposure	No information available.
Mobility in Soil	No information available.
Other Adverse Effects	No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Category	Information
Waste Treatment Methods	Dispose of contents/container in accordance with applicable local, regional, and national regulations. Avoid discharge into sewers, surface water, or groundwater.
Disposal of Substance / Residues	Waste material should be collected and disposed of through an authorized waste management facility in compliance with local regulations.
Contaminated Packaging	Containers should be emptied completely. After thorough cleaning, packaging may be reused or recycled in accordance with local regulations.

SECTION 14: TRANSPORT INFORMATION

Field	Information
UN Number (ONU)	Not applicable / Not regulated
UN Proper Shipping Name	Not applicable / Not regulated
Transport Hazard Class(es)	Not applicable / Not regulated
Packing Group	Not applicable / Not regulated
DOT (U.S.) Information	Not regulated
IMDG Information	Not regulated
IATA Information	Not regulated

SECTION 15: REGULATORY INFORMATION

Federal Regulations

Regulation	Status / Information
Chemical Inventory Status	Listed / Authorized
TSCA (U.S.)	Listed / Authorized
EPCRA 311/312 (Hazard Categories)	Refer to Section 2 of this Safety Data Sheet for applicable GHS hazard classifications.

California Regulations

Regulation	**Information**
California Proposition 65	**WARNING: This product can expose you to chemicals including ETHYLENE OXIDE, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.**

NFPA Hazard Ratings

Hazard	Rating
Health	0
Fire	1
Reactivity	0
Special	—

SECTION 16: OTHER INFORMATION

Key or Legend of Abbreviations and Acronyms Used in the Safety Data Sheet

Legend – Section 8: Exposure Controls / Personal Protection

Abbreviation	Meaning
TWA	Time-Weighted Average
STEL	Short-Term Exposure Limit

Main bibliographic references and data sources used to compile the SDS

- Agency for Toxic Substances and Disease Registry (ATSDR).
- U.S. Environmental Protection Agency, ChemView Database.
- European Food Safety Authority (EFSA).
- EPA (Environmental Protection Agency).
- Acute Exposure Guideline Levels (AEGL).
- U.S. Environmental Protection Agency, Federal Insecticide, Fungicide, and Rodenticide Act.
- U.S. Environmental Protection Agency, High Production Volume Chemicals.
- Food Research Journal.

- Hazardous Substances Database.
- International Uniform Chemical Information Database (IUCLID).
- Japan GHS Classification.
- Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS).
- NIOSH (National Institute for Occupational Safety and Health).

SECTION 16: OTHER INFORMATION

- ChemID Plus — U.S. National Library of Medicine (NLM CIP).
- PubMed Database — U.S. National Library of Medicine (NLM PubMed).
- National Toxicology Program (NTP).
- New Zealand Chemical Classification and Information Database (CCID).
- Organisation for Economic Co-operation and Development (OECD), publications on health, safety, and environment.
- OECD High Production Volume Chemicals Program.
- OECD Screening Information Data Set.
- World Health Organization (WHO).

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Revision note

Initial release

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. This information is intended only as guidance for safe handling, use, processing, storage, transport, disposal, and release, and should not be considered a warranty or quality specification. The information applies only to the specific material identified and may not be valid if the material is used in combination with any other materials or processes unless expressly stated in the text.

Sincerely: Mulcrete.

End of Safety Data Sheet