MULCRETE

ARCHITECTURAL

CONCRETE ADMIXTURES

SAFETY DATA SHEET POLYMER

POLYMER ULTRA HD

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

42 lb (19 kgs)

- High-dispersion liquid polymer
- 51% polymer solids
- Ideal for architectural surfaces
- Excellent performance on vertical surfaces
- UV- and aging-stable
- Enhances color in finished surfaces
- Reduces cracking and porosity

Complies with ASTM C-947-3.
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:

Polymer Ultra HD

Product Name:

POLYMER ULTRA HD

Other Means of Identification:

POLYMER ULTRA HD (High Dispersion)

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE

Recommended Use: GFRC (Glass Fiber Reinforced Concrete), and Wet Cast, professional use only; polymer 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 under 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)

May form combustible dust concentrations in air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Common Name	Chemical Name	% by Weight
Copolymer	Proprietary polymer formulation	< 100%

Property	Value
Physical state	Yellowish liquid
Odor	Mild
pH	4.0 – 7.0 (as supplied)
Boiling temperature	From 100 °C
Flash point	Not below 100 °C (DIN 51758)
Auto-ignition temperature	Above 300 °C
Freezing point	Approx. 0 °C
Density	1.0 – 1.1 g/cm^3
Vapor pressure	23 mbar at 20 °C / 125 mbar at 50 °C / 161 mbar at 55 °C
Viscosity	< 30 mPa·s at 23 °C (Brookfield)
Water solubility	Miscible

SECTION 4. FIRST AID MEASURES

First Aid Measure	Instructions
General Advice	Seek medical attention if symptoms occur.
Inhalation	No inhalation hazards at ambient temperature. If vapors or decomposition fumes at elevated temperatures are inhaled, move the affected person to fresh air and keep at rest. Seek medical attention if symptoms develop.
Skin Contact	No health hazards associated with skin contact at ambient temperature. In case of contact with hot material or if irritation occurs, wash with plenty of water. Seek medical attention if symptoms persist.
Eye Contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth thoroughly with water. DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.
Protection of First-Aid Personnel	Avoid direct contact with skin. Use barrier devices when performing mouth-to-mouth resuscitation. Ensure medical personnel are informed of the material involved and take necessary precautions to protect themselves.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians:
Treat symptoms.

SECTION 5. FIRE-FIGHTING MEASURES

Item	Description
Suitable Extinguishing Media	**Use water spray, foam, dry chemical extinguishing agent, or CO_2.**
Specific Hazards	**No specific hazards identified.**
Protective Equipment for Firefighters	**Self-contained breathing apparatus (SCBA) must be worn.**

SECTION 6. ACCIDENTAL RELEASE MEASURES

Category	Information
Personal Precautions, Protective Equipment and Emergency Procedures	Avoid contact with eyes and skin. Ensure adequate ventilation. Use appropriate personal protective equipment. Remove all sources of ignition (no smoking, sparks, or open flames in the immediate area). Prevent electrostatic charge buildup.
Environmental Precautions	Prevent product from entering drains, surface water, or soil. For additional ecological information, see Section 12.
Methods and Materials for Containment	Contain and collect spill with non-combustible absorbent material. Prevent further leakage or spillage if it can be done safely.
Methods for Cleaning Up	Absorb with inert material (e.g., sand, earth, vermiculite) and collect using non-sparking tools. Place material into properly labeled containers for disposal according to local regulations.
Prevention of Secondary Hazards	Clean contaminated objects and surfaces thoroughly, following environmental regulations.
Other Information	Refer to protective measures listed in Sections 7 and 8.

SECTION 7. HANDLING AND STORAGE

Item	Information
Handling Precautions	Keep container tightly closed.
Storage Conditions	Protect product from temperatures below 0 °C.
Technical Protective Measures	None.
Incompatible Products	Not available.
Storage Life	12 months.
Storage Class (VCI)	12
Packaging / Presentation	200 L drum and 25 L pail

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Category	Information
Exposure Limits	This product, as supplied, contains no hazardous substances with occupational exposure limits established by regional regulatory agencies.
Biological Exposure Limits	This product, as supplied, contains no hazardous substances with biological exposure limits established by regional regulatory agencies.
Engineering Controls	Safety showers; eyewash stations; adequate general ventilation.
Eye / Face Protection	Safety glasses or chemical splash goggles. Contact lenses should not be worn.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Category	Information
Skin and Body Protection	Protective clothing.
Hand Protection	Protective gloves.
Respiratory Protection	Under normal conditions of use, no respiratory protection is required. In case of inadequate ventilation or if vapors or aerosols cause irritation, appropriate respiratory protection may be required.
General Hygiene Considerations	Avoid contact with eyes and skin. Wash hands thoroughly after handling.
Environmental Exposure Controls	Do not allow the product to enter sewers, soil, or bodies of water.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Parameter	Result
Oral LD_{50} (rat)	> 200 mg/kg
Dermal LD_{50} (rabbit)	Not available
Inhalation LC_{50} (rat, 4 h)	Not available
Primary Irritation	Non-irritating to skin and eyes (rabbit test)*
Sensitization	Not available
Prolonged Toxicity	Not available

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value	Comments / Method
Explosive Properties	No information available	No data available
Oxidizing Properties	No information available	No data available
Softening Point	No information available	No data available
Molecular Weight	No information available	No data available
VOC Content (%)	No information available	No data available
Liquid Density	1.0 – 1.1 g/cm^3	No data available
Bulk Density	No information available	No data available

SECTION 10. STABILITY AND REACTIVITY

Category	Information
Reactivity	None under normal conditions of use.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Excessive heat, electrostatic discharge, dust formation.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Decomposition products depend on temperature, exposure to air, and presence of other substances. Processing may release irritating fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Possible routes of exposure	Product information
Inhalation	No specific test data are available for the substance or mixture.
Eye contact	No specific test data are available for the substance or mixture.
Skin contact	No specific test data are available for the substance or mixture.
Ingestion	
Symptoms related to physical, chemical, and toxicological characteristics	Symptoms
Numerical measures of toxicity	No information available.

SECTION 12: ECOLOGICAL INFORMATION

Parameter	**Description / Value**
Persistence and degradability	Less than 10% (Closed Bottle Test)
Bioaccumulation	Not available
Mobility	Not available
Ecotoxic effects	—
COD value	Approx. 563 mg/g*
BOD_5 value	Approx. 24 mg/g*

Parameter	Description / Value
Fish toxicity	—
LC_{50}, *Leuciscus idus* (48 h)	> 100 mg/L**
Water hazard class (WGK)	1 – Slightly hazardous to water (WGK = classification according to German Water Hazard Regulation, Annex 2 VwVwS – Administrative Regulation on Substances Hazardous to Water)
Additional information	The product does not contribute to the AOX value of wastewater (DIN EN 1485), does not contain heavy metals in concentrations relevant to wastewater, and does not contain phosphates or organic phosphorus compounds. The product contains approx. < 0.1% releasable nitrogen that may contribute to eutrophication.
Notes	* Test result obtained with a product of similar composition. ** Test conducted on fish *Leuciscus idus* (48 hours).

SECTION 13: DISPOSAL CONSIDERATIONS

Methods for waste treatment

Waste residues/unused products

Dispose of waste in accordance with applicable environmental regulations. Dispose of in compliance with local regulations.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: TRANSPORT INFORMATION

Field	Information
UN Number (ONU)	Not applicable / Not regulated
Proper shipping name	Not applicable / Not regulated
Hazard class	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

Safety, health and environmental regulations specific for the substance or mixture

International regulations

- **Montreal Protocol on Substances that Deplete the Ozone Layer**: Not applicable
- **International regulations**
- **Stockholm Convention on Persistent Organic Pollutants**: Not applicable
- **Rotterdam Convention**: Not applicable

International inventories

Contact the supplier for information on inventory compliance status.

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 (English Translation)
TWA	Time-Weighted Average
TWA (promedio ponderado en el tiempo)	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).
- ChemID Plus — U.S. National Library of Medicine (NLM CIP).

Main bibliographic references and data sources used to compile the SDS

- 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