

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200

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SECTION 1

FISHSTONE STUDIO, INC. 11299 KILEY DRIVE HUNTLEY, ILLINOIS 60142

EMERGENCY TELEPHONE:	(800) 424 9300	CHEM TREC
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TRADE NAME:	OPTIMUM 380 HIGH RANGE	NPCA HMIS RATINGS :
	SUPERPLASTICIZER LIQUID	Health: 0
PRODUCT CLASS:	Concrete Admixture; Superplasticizer	Flammability: 1
		Reactivity: 0
PRODUCT APPEARANCE & ODOR:	Clear- amber white liquid, slight odor	Personal Protection : C

SECTION 2 HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS#	%	OSHA PEL	ACGIH TWA	Vapor Pressure
NONE	NA	NA	NA	NA	18mm Hg @ 20°C

SECTION 3 EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. COLD water may be used. Get medical attention.
SKIN CONTACT:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. COLD water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse.
INHALATION:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. Oxygen may be administered if breathing is difficult. Get medical attention.
INGESTION:	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If larger quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 4 PHYSICAL DATA

The following data represents approximate or typical values. They do not constitute product specifications

BOILING RANGE:	100°C (Water)	SOLUBILITY:	Water = Soluble
CRYSTALIZATION POINT:	-10°C	WEIGHT % ACTIVE SOLIDS:	35.00% +/- 2.0%
SPECIFIC GRAVITY:	1.08 g/cm ³ (Water =1)	pH:	11.0 +/- 0.5 (Alkaline)
WEIGHT PER GALLON:	9.00 +/- 0.10lb/gallon	VISCOSITY – BROOKFIELD:	250 +/- 50 cps

TRADE NAME: OPTIMUM 380 HIGH RANGE SUPERPLASTICIZER LIQUID**SECTION 5 FIRE AND EXPLOSION DATA**

FLAMMABILITY CLASS:	N/A
FLASH POINT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
LOWER EXPLOSIVE LIMIT:	N/A
EXTINGUISHING MEDIA:	N/A
UNUSUAL FIRE AND EXPLOSION HAZARDS	Risks of explosion of the product in presence of mechanical impact and in presence of static discharge. N/A
SPECIAL FIRE FIGHTING PROCEDURES:	None

SECTION 6 HEALTH HAZARD DATA

CARCINOGENICITY	N/A
	No ingredient of this product is subject to the reporting requirements of section 313 of Title III of the "Superfund Amendment and reauthorization Act II (SARA) of 1986 and 40 CFR part 372 U.S..
EFFECTS OF OVEREXPOSURE	Repeated or prolonged exposure is not known to aggravate medical condition.
EYE CONTACT:	Slight irritant to the eye
SKIN CONTACT:	N/A
INHALATION:	N/A
INGESTION:	Consult a physician without delay

SECTION 7 REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	Avoid contact with strong oxidizing agent and strongly acidic or alkaline solution.
INCOMPATIBILITY (MATERIALS TO AVOID):	Reactive with acids and alkalis
HAZARDOUS DECOMPOSITION PRODUCTS:	N/A
HAZARDOUS POLYMERIZATION:	N/A

SECTION 8 SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:	Dilute with water and absorb with mop or dry material and place in an appropriate waste disposal container.
WASTE DISPOSAL METHOD:	Recycle if possible. Dispose of waste in accordance with Federal, State and Local regulations.

SECTION 9 SAFE HANDLING AND USE INFORMATION:

RESPIRATORY PROTECTION:	N/A
VENTILATION:	Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.
PROTECTIVE GLOVES:	N/A
EYE PROTECTION:	Tight fitting goggles are recommended to reduce exposure to the eyes.
OTHER PROTECTIVE EQUIPMENT:	Lab Coat

TRADE NAME: OPTIMUM 380 HIGH RANGE SUPERPLASTICIZER LIQUID**SECTION 10 SPECIAL PRECAUTIONS**

DEPT. OF LABOR STORAGE CATEGORY:	N/A
HYGIENIC PRACTICES:	N/A
ADDITIONAL PRECAUTIONS:	N/A

SECTION 11 TOXICITY INFORMATION

Routes of Entry	Not Available
Toxicity to Animals	LD50-oral rat => 2000 mg/kg / LC50-N/A
Acute Chronic Effects to Humans	N/A – Repeated or prolonged exposure is not known to aggravate medical condition.

SECTION 12 ECOLOGICAL INFORMATION

PRODUCTS OF BIODEGRADATION	Possibly hazardous short-term degradation products are not likely. However, long term degradation products may arise.
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SECTION 13 TRANSPORT INFORMATION

PROPER SHIPPING NAME	N/A
HAZARD CLASS	NON-HAZARDOUS
IDENTIFICATION NUMBER	N/A
DOT FREIGHT CLASSIFICATION	N/A

SECTION 14 REGULATORY INFORMATION

SARA TITLE III REPORTING INFORMATION, TIER I & II HAZARD CATEGORIES :	Contains no ingredients on these lists.
DSCL (EEC)	This product is not classified according to EU regulations.
INTERNATIONAL REGULATION LIST	No chemical listed.
WHMIS (Classification)	Not controlled under WHMIS (Canada).

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists	mg/m ³	milligrams per cubic meter
CAA	Clean Air Act (EPA)	N.A	Not Applicable
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act of 1980 (Superfund) (EPA)	N.E.	Not Established
CNS	Central Nervous System	NIOSH	National Institute for Occupational Safety & Health
CWA	Clean Water Act (EPA)	NTP	National Toxicology Program
DOT	Department of Transportation	OSHA	Occupational Safety and Health Administration
EPA	Environmental Protection Agency	PEL	Permissible Exposure Limit
g/kg	Grams per kilogram	ppm	Parts per million
IARC	Internal Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act (EPA)
LC50	Lethal Concentration in which 50% of the test animals are expected to die	SARA	EPA's Superfund Amendment and Reauthorization Act (EPA)
LD50	Lethal Dose in which 50% of the test animals are expected to die	STEL	Short-Term Exposure Limit, ACGIH terminology
		TLV	Threshold Limit Value
		TWA	Time-Weighted Average

Note : This material safety data sheet attempts to describe as accurately as possible the potential exposures associated with normal cement/sand use. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. The information and recommendations contained herein are based upon data believed to be correct. Fishstone Studio makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Refer to 49 CFR for possible exceptions and exemptions. All statements, information, and data provided in this material data safety sheet are believed to be accurate and reliable, but are presented without any guarantee. Users should make their own investigations to determine the suitability of the information or products for their particular purposes.