

SUPERIOR MANUFACTURING

MATERIAL SAFETY DATA SHEET

MFG.CODE #

SECTION I

MANUFACTURER'S NAME SUPERIOR MANUFACTURING		EMERGENCY TELEPHONE NO. CHEMTREC 800-424-9300	
ADDRESS (Street, City, State and Zip Code) 1495 AXTELL TROY, MI 48084			
CHEMICAL NAME AND SYNONYMS	N/A	TRADE NAME AND SYNONYMS	221
CHEMICAL FAMILY	N/A	FORMULA	N/A

SECTION II – HAZARDOUS INGREDIENTS

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (UNITS)
Bacillus Subtillis (CAS# 68038-70-0)	>1	N/A
Bacillus Licheniformis (CAS# 68038-66-4)	>1	N/A
Bacillus Polymyxa (CAS# 68038-68-6)	>1	N/A
Ethoxylated Alcohol (CAS# 78330-21-9)	>1	N/A
Alkyl Phenol Ethoxylate (CAS# 9016-45-9)	>1	N/A

All components of this product are listed on the E.P.A./TSCA inventory of chemical substances.

SECTION III – PHYSICAL DATA

BOILING POINT °F	212	SPECIFIC GRAVITY (H2O = 1)	1.005
VAPOR PRESSURE (mm. Hg.)	N/A	PERCENT VOLATILE BY VOLUME (%)	93
VAPOR DENSITY (AIR = 1)	N/A	EVAPORATION RATE (=1) water	1
SOLUBILITY IN WATER	complete	PH	7.1
APPEARANCE AND ODOR Red liquid with pleasant cherry fragrance.			

SECTION IV – FIRE AND EXPLOSION DATA

FLASH POINT (Method Used) None	FLAMMABLE LIMITS T.O.C.	LeI	UeI
		N/A	N/A
EXTINGUISHING MEDIA Use extinguishing media suitable for fighting surrounding fire.			
SPECIAL FIRE FIGHTING PROCEDURES Fire fighters should wear full protective clothing including self-contained respiratory equipment operated in a positive mode.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

(Continued on reverse side)

SECTION V – HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE Not Established	PRIMARY ROUTES OF ENTRY Inhalation Skin Contact <input checked="" type="checkbox"/> Other (Specify)		
EFFECTS OF OVEREXPOSURE Eyes- may cause irritation, infections can occur if contacted with open wounds. Skin- redness may occur if individual has dermal allergic reactions, sensitization may occur.			
EMERGENCY AND FIRST AID PROCEDURE Eyes- flush with copious amounts of water lifting lids and removing contact lenses to ensure complete irrigation- get medical attention. Skin- flush with water, launder contaminated clothing before reuse- get medical attention if irritation persists. Inhalation- remove to fresh air. Ingestion- give water or milk to dilute- get medical attention immediately.			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE Persons with pre-existing dermal allergies.			
CARCINOGEN: No	NTP	IARC	OTHER

SECTION VI – REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Temperatures in excess of 110°F or below 32°F.
	STABLE	X	
INCOMPATIBILITY (Materials to avoid) Strong Acids or Alkalies			
HAZARDOUS DECOMPOSITION PRODUCTS None			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID None
	WILL NOT OCCUR	X	

SECTION VII – SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Flush to sewer or use absorbent material to soak up spill.	
WASTE DISPOSAL METHOD In accordance with all Local, State, and Federal Regulations.	

SECTION VIII – SPECIAL PROTECTION INFORMATION

SPECIAL RESPIRATORY PROTECTION (Specify type) None required.		
VENTILATION	LOCAL EXHAUST Normal ventilation adequate	SPECIAL N/A
	MECHANICAL (General) Normal ventilation adequate	OTHER N/A
PROTECTIVE GLOVES Impervious	EYE PROTECTION Safety Glasses	
OTHER PROTECTIVE EQUIPMENT Eyewash and safety shower		

SECTION IX – SPECIAL PRECAUTIONS

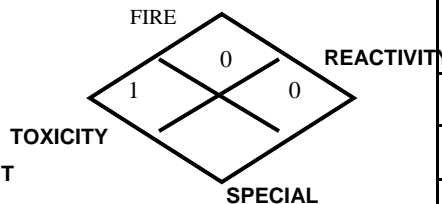
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Avoid contact- wear protective clothing and wash thoroughly after using. Avoid inhalation of spray mists- use only with adequate ventilation. Do not take internally. Store not store in areas where temperatures may exceed 110 or fall below 32	
OTHER PRECAUTIONS degrees F. Keep container closed when not in use. Do not subject to disinfectants or bleach. Keep Out of Reach of Children.	

HMIS SYMBOL

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0

	HMIS	NFPA
SEVERE	4	EXTREME
SERIOUS	3	HIGH
MODERAT SLIGHT	2	MODERATE
SLIGHT	1	SLIGHT
MINIMAL	0	INSIGNIFICANT

NFPA SYMBOL



NAME	John Telles
SIGNATURE	
TITLE	CHEMIST
PREPARATION DATE	August 19, 2014
PHONE NUMBER	CHEMTREC 800-424-9300
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