

Sorbitan Trioleate

MSDS (Material Safety Data Sheet)

November 14, 2012

CAS#: 26266-58-0
 Shipping Name: Not Regulated
 Formula: $C_{60}H_{108}O_8$
 Hazard Classification: Non-Hazardous
 Label: None
 Chemical Name: Sorbitan trioleate; Sorbitan trioctadecenoate

SECTION II - INGREDIENTS

	WEIGHT%	TWATLV
JEECHEM STO which comprises:		
Sorbitan trioleate	99 MIN	NONE ESTABLISHED
Water	1 MAX	NONE ESTABLISHED

SECTION III - PHYSICAL DATA

APPEARANCE: CLEAR, AMBER LIQUID
 VISCOSITY: 230 cps @ 25°C
 BOILING POINT: NOT KNOWN
 VAPOR DENSITY (AIR=1): NOT KNOWN
 PERCENT VOLATILE BY WEIGHT: 1 MAX
 EVAPORATION RATE (BUTYL ACETATE=1): NOT KNOWN
 pH: 7 (5%)
 ODOR: MILD FATTY
 MELTING OR FREEZING POINT: NOT KNOWN
 VAPOR PRESSURE (mm Hg): NOT KNOWN
 SOLUBILITY IN WATER: DISPERSIBLE
 SPECIFIC GRAVITY (H₂O=1)@25°C: 0.96

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT: 220°C, (COC)
 LOWER EXPLOSION LIMIT (%): NOT KNOWN
 EXTINGUISHING MEDIA: FOAM, WATER, DRY CHEMICAL, CO₂
 AUTO IGNITION TEMPERATURE: NOT KNOWN
 UPPER EXPLOSION LIMIT (%): NOT KNOWN
 SPECIAL FIRE FIGHTING PROCEDURES: MUST WEAR MSHA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: PRODUCTS OF COMBUSTION ARE TOXIC. TREAT AS HOT OIL OR FAT. IF WATER MUST BE USED, USE A FOG NOZZLE TO AVOID SPLATTERING OF HOT MATERIAL AND SPREAD OF BURNING LIQUID.

SECTION V - HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF ENTRY: SKIN AND EYE CONTACT
 EFFECTS OF OVEREXPOSURE: NO INFORMATION FOUND. BASED UPON INFORMATION AVAILABLE FOR SIMILAR PRODUCTS IT IS ANTICIPATED THAT DIRECT SKIN CONTACT WILL NOT RESULT IN IRRITATION.



OVEREXPOSURE MAY AGGRAVATE
EXISTING CONDITIONS:
EMERGENCY AND FIRST AID PROCEDURES:

NO EFFECTS INDICATED
EYES: FLUSH EYES WITH PLENTY OF WATER FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.
SKIN: WASH AFFECTED AREAS WITH PLENTY OF WATER, AND SOAP IF AVAILABLE, FOR SEVERAL MINUTES. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.
INGESTION: IF SWALLOWED, GIVE 3-4 GLASSES OF WATER BUT DO NOT INDUCE VOMITING. IF VOMITING DOES OCCUR, GIVE FLUIDS AGAIN. GET MEDICAL ATTENTION TO DETERMINE WHETHER VOMITING OR EVACUATION OF STOMACH IS NECESSARY. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.
INHALATION: REMOVE FROM AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF RESPIRATORY IRRITATION DEVELOPS OR IF BREATHING BECOMES DIFFICULT.

CHEMICALS LISTED AS CARCINOGEN BY: NATIONAL TOXICOLOGY PROGRAM:	NO
I.A.R.C. MONOGRAPHS:	NO
OSHA:	NO

SECTION VI - REACTIVITY INFORMATION

STABILITY:	STABLE
CONDITIONS TO AVOID:	NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS:	THERMAL DECOMPOSITION MAY PRODUCE OXIDES OF CARBON.
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR
CONDITIONS TO AVOID:	NONE KNOWN
INCOMPATIBILITY(MATERIALS TO AVOID):	STRONG OXIDIZING AGENTS, ACIDS OR BASES

SECTION VII - SPILL AND DISPOSAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
CAUTION! FLOORS MAY BECOME SLIPPERY. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND MSHA/NIOSH APPROVED RESPIRATOR WHERE MIST OR VAPORS OF UNKNOWN CONCENTRATIONS MAY BE GENERATED (SELF-CONTAINED BREATHING APPARATUS PREFERRED). PRODUCT IS HOT (AT LEAST 122°F) AND WILL SOLIDIFY AS IT COOLS. DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH ETC.) AND TRANSFER THE HOT LIQUID AND SOLID SEPARATELY TO CONTAINERS FOR RECOVERY OR DISPOSAL. KEEP SPILL OUT OF SEWERS AND OPEN BODIES OF WATER.

WASTE DISPOSAL METHOD: DISPOSE OF IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS. INCINERATION IS THE PREFERRED METHOD.

SECTION VIII- PERSONAL PROTECTION INFORMATION

VENTILATION TYPE:	IN PROCESSES WHERE MISTS OR VAPORS MAY BE GENERATED, PROPER VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH GOOD VENTILATION PRACTICES.
RESPIRATORY PROTECTION:	WHERE MIST OR VAPORS ARE GENERATED BY THE PROCESS, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.
PROTECTIVE GLOVES:	APPROPRIATE PROTECTION TO PREVENT CONTACT WITH HOT LIQUID
EYE PROTECTION:	APPROPRIATE PROTECTION TO PREVENT CONTACT WITH HOT LIQUID.
OTHER PROTECTIVE EQUIPMENT:	NONE NEEDED UNDER NORMAL USE CONDITIONS.

SECTION IX - STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING: TO MAINTAIN PRODUCT QUALITY, DO NOT STORE IN HEAT OR DIRECT SUNLIGHT. KEEP CONTAINERS CLOSED UNTIL USED.

SECTION X - TOXICOLOGY INFORMATION

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|--------------------------------|-------------------------|
| • ORAL LD ₅₀ (RAT): | GREATER THAN 5000 mg/kg |
| • SKIN IRRITATION (RABBIT): | NON-IRRITANT |
| • EYE IRRITATION (RABBIT): | NON-IRRITANT |

SECTION XI - MISCELLANEOUS INFORMATION
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FOUND ON U.S. EPA TSCA INVENTORY.

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