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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: JEEN International Corp. Chemtrec Emergency Tel.# 800-424-9300
24 Madison Road *Chemtrec International Emergency Tel.# 703-527-3887
Fairfield, NJ 07004 *Collect Calls Accepted
Telephone No.: (973) 439-1401

Material: **JEESORB TO-20 NF** Date Issued: 10/01/94 Rev.
Supercedes: 10/20/86
CAS Number: 9005-70-3 Formula: $C_6H_9O_2(C_2H_4O)_{20}(O_2CC_{17}H_{33})_3$
Shipping Name: Not Regulated
HMIS: HEALTH=0 FLAMMABILITY=1 REACTIVITY=0
Hazard Classification: Non-Hazardous Label: None
HEALTH (1); FLAMMABILITY (1); REACTIVITY (0)
Chemical Name: Polyoxyethylene (20) sorbitan trioleate

SECTION II - INGREDIENTS

	<u>APPROXIMATE</u> <u>WEIGHT%</u>	<u>TWA/TLV</u>
JEESORB TO-20 which comprises:		
Polyoxyethylene (20) sorbitan trioleate	95 MIN	NONE ESTABLISHED
Water	5 MAX	NONE ESTABLISHED

SECTION III - PHYSICAL DATA

APPEARANCE: YELLOW LIQUID (MAY GEL ON STANDING)
VISCOSITY: NOT KNOWN
BOILING POINT: NOT KNOWN
VAPOR DENSITY (AIR=1): NOT KNOWN
PERCENT VOLATILE BY WEIGHT: 5 MAX
EVAPORATION RATE (BUTYL ACETATE=1): NOT KNOWN
pH: 7 (5%)
ODOR: MILD FATTY
MELTING OR FREEZING POINT: NOT KNOWN
VAPOR PRESSURE (mm Hg):
SOLUBILITY IN WATER: DISPERSIBLE
SPECIFIC GRAVITY (H₂O=1)@25°C: 1.0

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT: 301°C (COC)
EXTINGUISHING MEDIA: FOAM, WATER, DRY CHEMICAL, CO₂
SPECIAL FIRE FIGHTING PROCEDURES: MUST WEAR MSHA/NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. COOL FIRE-EXPOSED CONTAINERS WITH WATER SPRAY.
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 SPATTERING OF HOT MATERIAL AND SPREAD OF BURNING LIQUID.
AUTO IGNITION TEMPERATURE: NOT KNOWN
LOWER EXPLOSION LIMIT (%): NOT KNOWN
UPPER EXPLOSION LIMIT (%): NOT KNOWN



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SECTION V - HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF ENTRY: SKIN AND EYE CONTACT
EFFECTS OF OVEREXPOSURE: PRODUCT IS NOT A SKIN IRRITANT.
EMERGENCY AND FIRST AID PROCEDURES:
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, 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 OCCURS 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 TOXIC ORGANIC VAPORS/FUMES AND 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). DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, ETC.) AND TRANSFER THE 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 PROCESS, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.
PROTECTIVE GLOVES:RUBBER OR NEOPRENE, WHEN NEEDED, TO PREVENT REPEATED OR PROLONGED SKIN CONTACT.
EYE PROTECTION:WEAR CHEMICAL SPLASH GOGGLES WHERE THERE IS A POTENTIAL FOR EYE CONTACT. USE SAFETY GLASSES WITH SIDE SHIELDS UNDER NORMAL USE CONDITIONS.
OTHER PROTECTIVE EQUIPMENT:EYE WASH; SAFETY SHOWER; PROTECTIVE CLOTHING (LONG SLEEVES, COVERALLS OR OTHER, AS APPROPRIATE), WHEN NEEDED, TO PREVENT SKIN CONTACT.



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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

- ORAL LD₅₀ (RAT): GREATER THAN 5000 MG/KG
- SKIN IRRITATION (HUMAN): NON-IRRITANT
- EYE IRRITATION (RABBIT): NON-IRRITANT
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SECTION XI - MISCELLANEOUS AND REGULATORY INFORMATION

FOUND ON U.S. EPA TSCA INVENTORY.

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