



24 Madison Road, Fairfield, New Jersey 07004, USA
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,
email: info@jeen.com , Website: www.jeen.com

MATERIAL SAFETY DATA SHEET

U.S. Department of Labor - Occupational Safety and Health Administration

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) Form OSHA-20 Rev. May 72

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

Issued by: JEEN International Corporation Chemtrec Emergency Tel: 800-424-9300
24 Madison Road Chemtrec Int'l. Emergency Tel: 703-527-3887
Fairfield, NJ 07004 (COLLECT CALLS ACCEPTED)
973-439-1401

Chemical Name and Synonyms:

POLYOXYETHYLENE (10) SORBITAN MONOLAUARATE

Formula:

HMIS:

CAS NO.:

Trade Name and Synonyms:

JEESORB L-10-M

$C_6H_{11}O_4(C_2H_4O)_{10} \cdot 2^{CC} \cdot 11H_{23}$

HEALTH=1 FLAMMABILITY=1 REACTIVITY=0

9005-64-5

SECTION II - INGREDIENTS

	WEIGHT %	TWA/TLV
JEESORB L-10-M WHICH COMPRISES:		
POLYOXYETHYLENE (10) SORBITAN MONOLAUARATE	97 MIN	NONE ESTABLISHED
WATER	3 MAX	NONE ESTABLISHED

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: YELLOW LIQUID
VISCOSITY: 400 CPS @ 25°C
BOILING POINT(°F.): NOT KNOWN
VAPOR DENSITY: (AIR=1) NOT KNOWN
PERCENT VOLATILE (BY WEIGHT) 3 MAX
EVAPORATION RATE (BUTYL ACETATE=1) NOT KNOWN
pH 7 (5%)
ODOR MILD
MELTING OR FREEZING POINT: NOT KNOWN
VAPOR PRESSURE (mm Hg): NOT KNOWN
SOLUBILITY IN WATER: DISPERSIBLE
SPECIFIC GRAVITY (H₂O=1): 1.09 @ 25°C

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT: >290°C (COC)
LOWER EXPLOSION LIMIT (%): NOT KNOWN
AUTO IGNITION TEMPERATURE: NOT KNOWN
UPPER EXPLOSION LIMIT (%): NOT KNOWN
EXTINGUISHING MEDIA: FOAM, CO₂, DRY CHEMICAL, WATER

SPECIAL FIRE FIGHTING PROCEDURE: 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 SPATTERING OF HOT MATERIAL AND SPREAD OF BURNING LIQUID.



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SECTION V - HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF ENTRY: SKIN CONTACT, EYE CONTACT
EFFECTS OF OVEREXPOSURE: NO INFORMATION FOUND. BASED UPON THE RESULTS OF ANIMAL TOXICITY STUDIES IT IS ANTICIPATED THAT PROLONGED SKIN CONTACT MAY RESULT IN MILD SKIN IRRITATION.

OVEREXPOSURE MAY AGGRAVATE EXISTING CONDITIONS: NO EFFECT INDICATED

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. 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 DATA

STABILITY: STABLE
CONDITIONS TO AVOID: NONE
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).

DIKE AND CONTAIN SPILL WITH INERT MATERIAL (SAND, EARTH, ETC.) AND TRANSFER THE LIQUID AND SOLID SEPERATELY TO CONTAINERS FOR RECOVERY OR DISPOSAL. KEEP SPILL OUT OF SEWERS AND OPEN BODIES OF WATER.

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



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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. RUBBER OR NEOPRENE, WHEN NEEDED, TO PREVENT SKIN CONTACT.

PROTECTIVE GLOVES: WEAR CHEMICAL SPLASH GOGGLES WHERE 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.

IX - STORAGE AND HANDLING

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

X - TOXICOLOGY INFORMATION

ORAL LD₅₀ (RAT): GREATER THAN 500 MG/KG
SKIN IRRITATION (RABBIT): MILD IRRITANT
EYE IRRITATION (RABBIT): NON-IRRITANT

XI - MICELLANEOUS INFORMATION

FOUND ON U.S. EPA TSCA INVENTORY.

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