



24 Madison Road, Fairfield, New Jersey 07004, USA
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MATERIAL SAFETY DATA SHEET

SECTION I - MATERIAL AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: Chemtrec Emergency Tel.# 800-424-9300
JEEN International Corp. *Chemtrec International Emergency Tel.# 703-527-3887
24 Madison Road *Collect Calls Accepted
Fairfield, NJ 07004-2309
Telephone No.: (973) 439-1401
Material: Date Issued:
JEESORB O-20-K 10/01/94 - Rev.
CAS Number: Formula:
9005-65-6 $C_6H_8O_4 (C_2H_4O)_{20}O_2CC_{17}H_{33}$
Supercedes: DOT Shipping Name:
08/19/92 Not Regulated
HMIS: HEALTH=0 FLAMMABILITY=1 REACTIVITY=0
DOT Hazard Classification: DOT Label:
Non-Hazardous None
Chemical Name: Polyoxyethylene (20) sorbitan monooleate; Polysorbate 80 (CTFA Name);
Sorbitan monooleate, ethoxylated

SECTION II - INGREDIENTS

	<u>APPROXIMATE</u> <u>WEIGHT%</u>	<u>TW/TLV</u>
Sorbitan monooleate, ethoxylated CAS# 9005-65-6):	97 Minimum	NONE ESTABLISHED
Water (CAS# 7732-18-5):	3 Maximum	NONE ESTABLISHED

SECTION III - PHYSICAL DATA

APPEARANCE: YELLOW LIQUID
VISCOSITY: 425 cps @ 25^o
BOILING POINT: >300
VAPOR DENSITY (AIR=1): NOT KNOWN
PERCENT VOLATILE BY WEIGHT: 3
EVAPORATION RATE (BUTYL ACETATE=1): NOT KNOWN
pH: 6.5 (3% AQUEOUS SOLUTION)
ODOR: MILD FATTY
MELTING OR FREEZING POINT: NOT KNOWN
VAPOR PRESSURE (mm Hg): NOT KNOWN
SOLUBILITY IN WATER: SOLUBLE
SPECIFIC GRAVITY (H₂O=1) @25°C: 1.09

SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT: >300
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
UPPER EXPLOSION LIMIT (%): NOT APPLICABLE



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SECTION V - HEALTH EFFECTS INFORMATION

PRIMARY ROUTES OF ENTRY: SKIN CONTACT AND EYE CONTACT
EFFECTS OF OVEREXPOSURE: SKIN CONTACT WILL NOT NORMALLY PRODUCE IRRITATION. BASED UPON THE RESULTS OF ANIMAL TOXICITY STUDIES, IT IS ANTICIPATED THAT DIRECT EYE CONTACT WILL NOT RESULT IN IRRITATION.

EMERGENCY & 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 WATER. SEEK MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

INGESTION: IF SWALLOWED, RINSE OUT MOUTH AND DRINK 2-3 GLASSES OF WATER. SEEK MEDICAL ATTENTION IF DISCOMFORT OR OTHER SYMPTOMS DEVELOP.

INHALATION: IF SIGNIFICANT QUANTITIES ARE INHALED, REMOVE FROM AREA TO FRESH AIR. SEEK MEDICAL ATTENTION IF DISCOMFORT OR OTHER SYMPTOMS DEVELOP.

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, NITROGEN AND SULFUR.
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 NIOSH/MSHA 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 THE PROCESS, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.

PROTECTIVE GLOVES:

NONE REQUIRED PROVIDED THAT NORMAL INDUSTRIAL HYGIENE PRACTICES ARE OBSERVED.

EYE PROTECTION:

NONE REQUIRED PROVIDED THAT NORMAL INDUSTRIAL HYGIENE PRACTICES ARE OBSERVED.

OTHER PROTECTIVE EQUIPMENT:

NONE REQUIRED PROVIDED THAT NORMAL INDUSTRIAL HYGIENE PRACTICES ARE OBSERVED.



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SECTION IX - STORAGE AND HANDLING

PRECAUTIONS TO BE TAKEN IN STORAGE AND HANDLING:

KEEP CONTAINERS CLOSED UNTIL USED. TO MAINTAIN PRODUCT QUALITY, DO NOT STORE IN HEAT OR DIRECT SUNLIGHT.

SECTION X - TOXICOLOGY INFORMATION

* ORAL LD₅₀ (RAT): GREATER THAN 5000mg/kg
 * EYE IRRITATION (RABBIT): NON-IRRITANT
 * SKIN IRRITATION (RABBIT): NON-IRRITANT

SECTION XI - MISCELLANEOUS AND REGULATORY INFORMATION

FEDERAL LEVEL REGULATIONS:

THIS PRODUCT IS REGULATED BY 21CFR SECTIONS 73.1, 73.1001, 172.840, 173.340, 175.105, 175.300, AND 178.3400 FOR FOOD AND PHARMACEUTICAL APPLICATIONS.

TOXIC SUBSTANCES CONTROL ACT (TSCA INVENTORY) STATUS:

FOUND ON U.S. EPA TSCA INVENTORY.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT OF 1980 REQUIRES NOTIFICATION OF THE NATIONAL RESPONSE CENTER (TELEPHONE 1-800-424-8802) IN THE EVENT OF A RELEASE OF QUANTITIES OF THE FOLLOWING HAZARDOUS MATERIALS CONTAINED IN THIS PRODUCT, IF THE RELEASE IS EQUAL TO OR GREATER THAT THE REPORTABLE QUANTITIES (RQs) LISTED IN 40 CFR 302.4:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

SARA TITLE III, SECTIONS 302/304 (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986):

THIS ACT REQUIRES EMERGENCY PLANNING, INCLUDING AGENCY NOTIFICATION, FOR POSSIBLE RELEASE OF THE FOLLOWING COMPONENTS OF THIS MATERIAL, BASED UPON THE THRESHOLD PLANNING QUANTITIES (TPQs) AND RELEASE REPORTABLE QUANTITIES (RQs) LISTED FOR THE COMPONENTS IN 40 CFR 355:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

SARA TITLE III, SECTIONS 311/312 -

THIS ACT REQUIRES REPORTING UNDER THE COMMUNITY RIGHT-TO-KNOW PROVISIONS DUE TO THE INCLUSION OF THE FOLLOWING COMPONENTS OF THIS MATERIAL IN ONE OR MORE OF THE FIVE HAZARD CATEGORIES LISTED IN 40 CFR 370: HAZARD *)

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

*) THE FIVE HAZARD CATEGORIES ARE AS FOLLOWS: F= FIRE HAZARD; S=SUDDEN RELEASE OF PRESSURE; R=REACTIVE; A=IMMEDIATE (ACUTE) HEALTH HAZARD; C=DELAYED (CHRONIC) HEALTH HAZARD.

SARA TITLE III SECTION 313 -

THIS ACT REQUIRES SUBMISSION OF ANNUAL REPORTS OF RELEASES OF THE FOLLOWING COMPONENTS OF THIS MATERIAL IF THE THRESHOLD REPORTING QUANTITIES, AS LISTED IN 40 CFR 372, ARE MET OR EXCEEDED:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

STATE RIGHT-TO-KNOW REGULATIONS:

CALIFORNIA PROPOSITION 65-

COMPONENTS PRESENT IN THIS MATERIAL WHICH THE STATE OF CALIFORNIA HAS FOUND TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM AS FOLLOWS:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
Acetaldehyde	75-07-0	1 PPM
1, 4-Dioxane	123-91-1	1 PPM
Ethylene oxide	75-21-8	10 PPM



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SECTION XI - MISCELLANEOUS AND REGULATORY INFORMATION Continued...

MASSACHUSETTS RIGHT-TO-KNOW-

THE FOLLOWING COMPONENTS OF THIS MATERIAL ARE INCLUDED IN THE MASSACHUSETTS SUBSTANCE LIST AND ARE PRESENT AT OR ABOVE REPORTABLE LEVELS:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
Acetaldehyde	75-07-0	1 PPM
1, 4-Dioxane	75-21-8	10 PPM
Ethylene oxide	123-91-1	1 PPM

MICHIGAN CRITICAL MATERIALS-

THE FOLLOWING COMPONENTS OF THIS MATERIAL ARE INCLUDED IN THE MICHIGAN CRITICAL MATERIALS LIST:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

NEW JERSEY RIGHT-TO-KNOW-

THE FOLLOWING COMPONENTS OF THIS MATERIAL ARE INCLUDED IN THE NEW JERSEY HAZARDOUS SUBSTANCE LIST AND ARE PRESENT AT OR ABOVE REPORTABLE LEVELS:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

PENNSYLVANIA RIGHT-TO-KNOW-

THE FOLLOWING COMPONENTS OF THIS MATERIAL ARE INCLUDED IN THE PENNSYLVANIA HAZARDOUS SUBSTANCE LIST AND ARE PRESENT AT OR ABOVE REPORTABLE LEVELS:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>TYPICAL MAXIMUM CONCENTRATION</u>
NONE KNOWN	-	-

SECTION 12- TRANSPORTATION INFORMATION

DOT Proper Shipping Name: NA
 DOT Technical Name: NA
 DOT Primary Hazard Class: NA
 DOT Secondary Hazard Class: NA
 DOT Label Required: NA
 DOT Placard Required: NA
 DOT Poison Constituent: NA

Bill of Lading Description: Not Regulated by the Department of Transportation

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