



**JEEN** INTERNATIONAL  
CORPORATION

24 Madison Road, Fairfield, New Jersey 07004, USA  
Tel: 800-771-JEEN (5336), Tel: 973-439-1401, Fax: 973-439-1402,  
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## MATERIAL SAFETY DATA SHEET

### SECTION I – MATERIAL AND MANUFACTURER IDENTIFICATION

Manufacturer's Name: Jeen International Corporation Chemtrec Emergency Tel.: (800) 424-9300  
24 Madison Road Chemtrec Int'l Tel.: (703) 527-3887 (Collect Calls Accepted)  
Fairfield, NJ 07004-2309  
Tel. (973) 439-1401 Date Issued: 6/21/93 – New

Material: **JEECHEM EGMS**  
CAS Number: Mixture  
Formula: Mixture  
DOT Shipping Name: Not Regulated  
DOT Hazard Class: Non-Hazardous  
Label: None  
Chemical Name: Ethylene Glycol Monostearate; EGMS; Glycol Stearate

### SECTION II - INGREDIENTS

	<u>APPROXIMATE WEIGHT%</u>	<u>TW/TLV</u>
Ethylene Glycol Monostearate (CAS# 111-60-4)	55	NONE ESTABLISHED
Ethylene Glycol Distearate (CAS# 627-83-8)	45	NONE ESTABLISHED
Fatty Acid (C <sub>14-18</sub> ) (CAS# 67701-02-4)	2	NONE ESTABLISHED
Ethylene Glycol (CAS# 107-21-1)	1	NONE ESTABLISHED

### SECTION III - PHYSICAL DATA

BOILING POINT:	NOT KNOWN
VAPOR PRESSURE (mm Hg):	NOT APPLICABLE
VAPOR DENSITY (AIR=1):	NOT APPLICABLE
SOLUBILITY IN WATER:	INSOLUBLE
APPEARANCE AND ODOR:	WHITE BEADS OR FLAKE; MILD FATTY ODOR
SPECIFIC GRAVITY (H <sub>2</sub> O=1) @25°C:	0.98
PERCENT VOLATILE BY WEIGHT:	NIL
EVAPORATION RATE (BUTYL ACETATE=1):	NOT APPLICABLE
pH	NOT KNOWN
MELTING OR FREEZING POINT:	58-64°C
VISCOSITY:	NOT APPLICABLE

### SECTION IV - FIRE AND EXPLOSION INFORMATION

FLASH POINT:	150°C (COC)
EXTINGUISHING MEDIA:	FOAM, WATER, DRY CHEMICAL, CO <sub>2</sub>
SPECIAL FIRE FIGHTING PROCEDURES:	MUST WEAR NIOSH/MSHA 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

OVEREXPOSURE MAY AGGRAVATE EXISTING  
CONDITIONS: NO EFFECTS INDICATED.

EFFECTS OF OVEREXPOSURE: BASED UPON THE RESULTS OF ANIMAL TOXICITY STUDIES, IT IS ANTICIPATED THAT DIRECT EYE CONTACT MAY PRODUCE VERY MILD TRANSITORY IRRITATION. BASED UPON HUMAN STUDIES, DIRECT SKIN CONTACT WILL NOT PRODUCE IRRITATION.

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 AND 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  
INCOMPATIBILITY  
(MATERIALS TO AVOID): STRONG OXIDIZING AGENTS, ACIDS OR BASES  
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

#### 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 GEAR AND RESPIRATORY PROTECTION WHERE DUSTS OR AIRBORNE PARTICULATES OF UNKNOWN CONCENTRATIONS MAY BE GENERATED (SELF-CONTAINED BREATHING APPARATUS PREFERRED FOR LARGE SPILLS).  
SHOVEL SPILLS INTO APPROPRIATE CONTAINERS FOR DISPOSAL. TO REMOVE RESIDUE, WET WITH WATER, ABSORB WITH SAND OR VERMICULITE AND PLACE IN COMPATIBLE CONTAINER FOR 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.



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#### SECTION VIII- PERSONAL PROTECTION INFORMATION

##### RESPIRATORY PROTECTION:

IN PROCESSES WHERE DUSTS OR AIRBORNE PARTICULATES MAY BE GENERATED, A NIOSH/MSHA JOINTLY APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS.

##### VENTILATION TYPE:

IN PROCESSES WHERE DUSTS OR AIRBORNE PARTICULATES MAY BE GENERATED, PROPER VENTILATION MUST BE PROVIDED IN ACCORDANCE WITH GOOD VENTILATION PRACTICES.

##### PROTECTIVE GLOVES:

NONE REQUIRED PROVIDED THAT NORMAL INDUSTRIAL HYGIENE PRACTICES ARE OBSERVED.

##### 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:

NONE REQUIRED PROVIDED THAT NORMAL INDUSTRIAL HYGIENE PRACTICES ARE OBSERVED.

#### 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 LD<sub>50</sub> (RAT): >5000 mg/kg; >21300 mg/kg, >10000 mg/kg (CIR Review, 3 tests)
- \* SKIN IRRITATION (RABBIT): VERY MILD IRRITATION WHICH CLEARED BY DAY 3, POST DOES (ESSENTIALLY NON-IRRITATING) (PRIMARY IRRITATION INDEX - 0.8)
- \* SKIN IRRITATION (RABBIT): ESSENTIALLY NON-IRRITATING (PRIMARY IRRITATION INDEX= 0.0, 0.0, 0.13, 0.38) (CIR Review, 4 tests)
- \* DOT SKIN CORROSIVITY (RABBIT): NON-CORROSIVE (CIR Review)
- \* SKIN SENSITIZATION (GUINEA PIG): NOT A SENSITIZER (CIR Review)
- \* EYE IRRITATION (RABBIT): NON-IRRITANT
- \* EYE IRRITATION (RABBIT): NON-IRRITANT; MILD TRANSIENT IRRITATION IN 1 OF 6 RABBITS (CIR Review, 2 Tests)
- \* SKIN IRRITATION AND SENSITIZATION (HUMAN): APPLICATION OF A 50% W/V SOLUTION IN MINERAL OIL FOR 24 HOURS, THREE TIMES A WEEK FOR THREE WEEKS DID NOT PRODUCE IRRITATION AND WAS NOT A SENSITIZER (CIR Review)



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SECTION XI - MISCELLANEOUS AND REGULATORY INFORMATION

FEDERAL LEVEL REGULATIONS:  
 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 THAN THE REPORTABLE QUANTITIES (RQs) LISTED IN 40 CFR 302.4:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
Ethylene Glycol	107-21-1	1%

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:  
 TYPICAL MAXIMUM

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>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:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	HAZARD *) <u>CONCENTRATION</u>
Ethylene Glycol	107-21-1	A

\*) 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>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
Ethylene Glycol	107-21-1	1%

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>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
ACETALDEHYDE	75-07-0	1 PPM
1,4-DIXANE	123-91-1	10 PPM
ETHYLENE OXIDE	75-21-8	1 PPM



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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>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
ACETALDEHYDE	75-07-0	1 PPM
1,4-DIOXANE	123-91-1	10 PPM
ETHYLENE GLYCOL	107-21-1	1%
ETHYLENE OXIDE	75-21-8	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>	TYPICAL MAXIMUM <u>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>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
ETHYLENE GLYCOL	107-21-1	1%

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>	TYPICAL MAXIMUM <u>CONCENTRATION</u>
ETHYLENE GLYCOL	107-21-1	1%