

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **BIG ORANGE** ID NUMBER: 6240 PRODUCT USE/CLASS: NATURAL DEGREASER
MANUFACTURER: CHEMICAL UNIVERSE, INC. 1133 SALINE ST, N. KANSAS CITY, MO 64116 EMERGENCY TELEPHONE: 800-424-9300
PREPARED BY: D. ACKART PHONE: 816-471-3602 PREPARE DATE: 12/15-03

SECTION II - HAZARDOUS COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WT. PERCENT IS LESS THAN	TLV-TWA	TLV-STEL	PEL-TWA	SKIN DESIGNATION
---------------	------------	--------------------------	---------	----------	---------	------------------

D-LIMONINE	5989-27-5	<100	None Est	None Est	None Est	NO
------------	-----------	------	----------	----------	----------	----

(See Section 11 for abbreviation legend)

SECTION III - PHYSICAL DATA

BOILING RANGE: 215-285 F VAPOR DENSITY: Is heavier than air ODOR: ORANGE SPECIFIC GRAVITY: .0841
APPEARANCE: AMBER CLEAR LIQUID EVAPORATION RATE: Is slower than Ether SOLUBILITY IN H2O: INSOLUABLE

(See Section XI for abbreviation legend)

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: >145 F LOWER EXPLOSIVE LIMIT: N/A UPPER EXPLOSIVE LIMIT: N/A
(TAGLIABUE CUP CLOSED)

EXTINGUISHING MEDIA: DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE FLAMMABLE HYDROGEN GAS WILL BE LIBERATED FROM CONTACT WITH SOME METALS (ALUMINUM, MAGNESIUM, ETC).

SPECIAL FIREFIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - EYE CONTACT: MAY IRRITATE OR BURN

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: OVEREXPOSURE MAY CAUSE IRRITATION/DERMATITIS.

EFFECTS OF OVEREXPOSURE - INHALATION: EXCESSIVE INHALATION MAY DAMAGE RESPIRATORY TRACT. POSSIBLE NAUSEA, DIZZINESS.

EFFECTS OF OVEREXPOSURE - INGESTION: LARGE QUANTITIES COULD CAUSE SEVERE PAIN, NAUSEA.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: NONE KNOWN.

FIRST AID - EYE CONTACT: FLUSH WITH WATER 15-30 MINUTES, LIFTING EYELIDS. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: FLUSH WITH WATER 15 MINUTES. REMOVE CONTAMINATED CLOTHING. LAUNDER BEFORE REUSE. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

FIRST AID - INHALATION: REMOVE TO FRESH AIR. IF RESPIRATION DIFFICULTIES, GET MEDICAL ATTENTION.

FIRST AID - INGESTION: DO NOT INDUCE VOMITING. DRINK LARGE AMOUNTS OF WATER OR MILK. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION. GET MEDICAL ATTENTION.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT INHALATION INGESTION EYE CONTACT

(Continued on Page 2)

PRODUCT NAME: **BIG ORANGE**

ID NUMBER: 6240

PRODUCT USE/CLASS: NATURAL DEGREASER

SECTION VI - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL DECOMPOSITION TO CARBON DIOXIDE (CO₂), CARBON MONOXIDE (CO). CO MAY BE HAZARDOUS IN ENCLOSED HIGH CONCENTRATIONS.

CONDITIONS TO AVOID: ACIDS AND STRONG OXIDIZERS.

INCOMPATIBILITY: ACTIVE METALS. STRONG ACIDS MAY PRODUCE VIOLENT REACTION.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: WEAR APPROPRIATE PROTECTIVE AND RESPIRATORY EQUIPMENT, DIKE FOR RECOVERY OR DISPOSAL.

WASTE DISPOSAL METHOD: DISPOSE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: NIOSH/OSHA APPROVED RESPIRATOR TYPES SUITABLE FOR MATERIALS IN SECTION II RECOMMENDED. APPROVED CHEMICAL/MECHANICAL FILTERS RECOMMENDED WHEN VENTILATION IS RESTRICTED.

VENTILATION: SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGHI'S TLV LIMIT.

SKIN PROTECTION: HEAVY RUBBER GLOVES NEEDED.

EYE PROTECTION: CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: PREVENT PROLONGED CONTACT, WEAR BOOTS AND IMPERVIOUS CLOTHING IF NECESSARY, EYE WASH, SAFETY SHOWER AVAILABLE.

HYGENIC PRACTICES: WASH AFTER EACH USE.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY AREA.

OTHER PRECAUTIONS: OBEY ALL HAZARD WARNINGS WHEN CONTAINERS ARE EMPTIED.

SECTION X - HMIS RATINGS

HMIS RATINGS	HEALTH: 1	FLAMMABILITY: 1	REACTIVITY: 0
--------------	-----------	-----------------	---------------

SECTION XI - OTHER REGULATIONS

SARA SECTION 313: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

NO SARA 313 CHEMICALS

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS is been checked and should be accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.