



CHEMICAL ASSOCIATES
1270 South Cleveland-Massillon Road
Building B
Copley, OH 44321-1683

MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: 800-347-2891
MSDS REFERENCE: CA2805

CHEMTREC: 800-424-9300

SECTION I - IDENTIFICATION

PRODUCT: CA2805 CRUDE GLYCERINE
SYNONYMS: GLYCEROL; GLYCERINE; 1,2,3 - PROPANETRIOL
CHEMICAL: ALCOHOL, ALIPHATIC
CAS NO: 56-81-5
SARA HAZARD: NONE NOTED (SECTION 311/312)
TITLE III SECTION 313 NOT LISTED

SECTION II - INGREDIENTS AND HAZARD CLASSIFICATION

COMPOSITION	TYPICAL %	PEL/TLV	HAZARD
GLYCERINE (56-81-5)	93	SEE SECTION IV	NONE NOTED
WATER	4	NONE NOTED	NONE NOTED
FATTY ACIDS (67701-06-8)	3	NONE NOTED	NONE NOTED

SECTION III - HEALTH INFORMATION

INHALATION: NUISANCE PARTICULATES HAVE BEEN REPORTED FOR GLYCERINE MIST.

INGESTION: LD50: 12.6 G/KG (RAT); LD50:4.1 G/KG (MOUSE); LD50:7.8 G/KG (GUINEA PIG)

EYE CONTACT: 126 MG OF GLYCERINE APPLIED TO THE EYES OF RABBITS IN A DRAIZE TEST RESULTED IN MILD IRRITATION.

SKIN CONTACT: PRIMARY IRRITATION INDEX OF GLYCERINE = 0.3. 500 MG OF GLYCERINE APPLIED TO THE SKIN OF RABBITS OVER A 24-HOUR PERIOD RESULTED IN MODERATE IRRITATION.

SECTION IV - OCCUPATIONAL EXPOSURE LIMITS

PEL: 8 hr. TWA 15 mg/m³ (total dust)
8 hr. TWA 5 mg/m³ (respirable fraction)

TLV: TLV-TWA 10 mg/m³ (total particulate)

SECTION V - EMERGENCY FIRST AID PROCEDURE

- INGESTION:** CALL A PHYSICIAN OR POISON CONTROL CENTER PROMPTLY.
- INHALATION:** IMMEDIATELY REMOVE VICTIM TO FRESH AIR. IF VICTIM HAS STOPPED BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY BY MOUTH TO MOUTH. GET MEDICAL ATTENTION IMMEDIATELY.
- EYE CONTACT:** IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES. DO NOT LET VICTIM RUB EYES. GET MEDICAL ATTENTION IMMEDIATELY.
- SKIN CONTACT:** WASH AFFECTED AREA

SECTION VI - PHYSICAL DATA

- BOILING POINT:** > 500° F
MELTING POINT: 64 °F (18° C)
VAPOR PRESSURE: < 0.001 MM HG PRESSURE AT 25° C
SPECIFIC GRAVITY: 1.23 25/25° C
SOLUBILITY IN WATER: SOLUBLE
APPEARANCE AND COLOR: WATER WHITE TO YELLOW LIQUID
VAPOR DENSITY (AIR = 1): 3.1

SECTION VII - FIRE AND EXPLOSION HAZARDS

- FLASH POINT AND METHOD USED:** 390 DEG F (199 DEG C) (CLOSED CUP) 698 DEG F (370 DEG C)
AUTO IGNITION TEMPERATURE: NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. LOWER: NOT ESTABLISHED
FLAMMABLE LIMITS IN AIR, % BY VOL. UPPER: NOT ESTABLISHED
NFPA RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)
HMIS RATING: HEALTH: (1) FIRE: (1) REACTIVITY: (0)

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

INDIVIDUALS SHOULD PERFORM ONLY THOSE FIRE PROCEDURES FOR WHICH THEY HAVE BEEN TRAINED. WATER OR FOAM MAY CAUSE FROTHING WHEN APPLIED TO FLAMMABLE LIQUIDS HAVING FLASH POINTS ABOVE 212 DEG F (100 DEG C). THE REMARK IS INCLUDED ONLY AS A PRECAUTION AND DOES NOT MEAN THAT WATER OR FOAM SHOULD NOT OR COULD NOT BE USED IN FIGHTING FIRES IN SUCH LIQUIDS. THE FROTHING MAY BE QUITE VIOLENT AND COULD ENDANGER THE LIFE OF THE FIREFIGHTER PARTICULARLY WHEN SOLID STREAMS ARE DIRECTED INTO THE HOT BURNING LIQUID. ON THE OTHER HAND, WATER SPRAY CAREFULLY APPLIED HAS FREQUENTLY BEEN USED WITH SUCCESS IN EXTINGUISHING SUCH FIRES BY CAUSING THE FROTHING TO OCCUR ONLY ON THE SURFACE AND THIS FOAMING ACTION BLANKETS AND EXTINGUISHES THE FIRE. (NFPA 325M-1984)

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS IN THE POSITIVE-PRESSURE MODE WITH A FULL FACEPIECE WHEN THERE IS A POSSIBILITY OF EXPOSURE TO SMOKE, FUMES OR HAZARDOUS DECOMPOSITION PRODUCTS. GLYCERINE CAN REACT VIOLENTLY OR EXPLOSIVELY ON CONTACT WITH STRONG OXIDIZING MATERIALS OR STRONG ACIDS.

SECTION VIII - REACTIVITY

STABILITY:	GENERALLY STABLE
HAZARDOUS POLYMERIZATION:	NONE LIKELY
CONDITIONS AND MATERIALS TO AVOID:	AVOID EXCESSIVE HEAT AND OPEN FLAMES. GLYCERINE IS INCOMPATIBLE WITH STRONG ACIDS AND STRONG OXIDIZERS. CONTACT WITH THESE MATERIALS MAY RESULT IN EXPLOSIVE OR VIOLENT REACTIONS.
HAZARDOUS DECOMPOSITION PRODUCTS:	THERMAL DECOMPOSITION RELEASES CORROSIVE FUMES OF ACROLEIN. DECOMPOSITION MAY RESULT IN CARBON MONOXIDE AND CARBON DIOXIDE.

SECTION IX - EMPLOYEE PROTECTION

CONTROL MEASURES:

PROVIDE ADEQUATE LOCAL EXHAUST VENTILATION TO MAINTAIN CONCENTRATION BELOW ACCEPTABLE EXPOSURE CRITERIA (SECTION II AND IV)

RESPIRATORY PROTECTION:

WHERE EXPOSURE IS LIKELY TO EXCEED ACCEPTABLE CRITERIA (SEE SECTIONS II AND IV), USE NIOSH/OSHA APPROVED RESPIRATORY EQUIPMENT. RESPIRATORS SHOULD BE SELECTED BASED ON THE FORM AND CONCENTRATION OF CONTAMINANT IN AIR AND IN ACCORDANCE WITH OSHA (29 CFR 1910.134)

PROTECTIVE CLOTHING:

WEAR GLOVES AND PROTECTIVE CLOTHING WHICH ARE IMPERVIOUS TO THE PRODUCT FOR THE DURATION OF ANTICIPATED EXPOSURE IF THERE IS POTENTIAL FOR PROLONGED OR REPEATED SKIN CONTACT.

EYE PROTECTION:

WEAR SAFETY GLASSES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 WHERE NO CONTACT WITH THE EYE IS ANTICIPATED. CHEMICAL SAFETY GOGGLES MEETING THE SPECIFICATIONS OF ANSI STANDARD Z87.1 SHOULD BE WORN WHENEVER THERE IS THE POSSIBILITY OF SPLASHING OR OTHER CONTACT WITH THE EYES.

SECTION X - ENVIRONMENTAL PROTECTION

ENVIRONMENTAL PRECAUTIONS:

AVOID UNCONTROLLED RELEASES OF THIS MATERIAL. WHERE SPILLS ARE POSSIBLE. A COMPREHENSIVE SPILL RESPONSE PLAN SHOULD BE DEVELOPED AND IMPLEMENTED.

SPILL OR LEAK PRECAUTIONS:

WEAR APPROPRIATE RESPIRATORY PROTECTION AND PROTECTIVE CLOTHING AS DESCRIBED IN SECTION IX. CONTAIN SPILLED MATERIAL. TRANSFER TO

SECURE CONTAINERS. WHERE NECESSARY, COLLECT USING ABSORBENT MEDIA. IN THE EVENT OF AN UNCONTROLLED RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE IS REPORTABLE UNDER APPLICABLE LAWS AND REGULATIONS.

WASTE DISPOSAL:

ALL RECOVERED MATERIAL SHOULD BE PACKAGED, LABELED, TRANSPORTED, AND DISPOSED OR RECLAIMED IN CONFORMANCE WITH APPLICABLE LAWS AND REGULATIONS AND IN CONFORMANCE WITH GOOD ENGINEERING PRACTICES. AVOID LANDFILLING OF LIQUIDS. RECLAIM WHERE POSSIBLE.

SECTION XI - REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:

DOT CLASSIFICATION: NOT REGULATED

DOT PROPER SHIPPING NAME:

OTHER DOT INFORMATION:

OTHER REGULATORY REQUIREMENTS:

LISTED IN TSCA INVENTORY

LISTED IN DSL INVENTORY

CERCLA HAZARDOUS MATERIALS:

NONE NOTED

SECTION XII - PRECAUTIONS: HANDLING, STORAGE AND USAGE

STORE IN A COOL, DRY, VENTILATED AREA. PROTECT THE AREA FROM CONTAMINATION BY ACID FUMES. PROVIDE ADEQUATE VENTILATION. CONTAINERS SHOULD BE SEALED AS TIGHTLY AS POSSIBLE. INSPECT THE AREA PERIODICALLY FOR DEFICIENCIES.

The information presented herein is believed to be factual as it has been derived from the works and opinions of persons believed to be qualified experts; however, nothing contained in this information is to be taken as a warranty or representation for which Chemical Associates bears responsibility. The user should review any recommendations in the specific context of the intended use to determine whether they are appropriate.

CHEMICAL ASSOCIATES

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DATE: 08/09/10
SUPERSEDES: 10/23/09