

1. PRODUCT AND COMPANY IDENTIFICATION

NAME: CITRASOL
USE: GENERAL PURPOSE CLEANER
LABEL BRAND: U S CHEMICAL
MSDS # 100403 CODE # 057429

US CHEMICAL, 316 HART STREET, WATERTOWN, WI 53094 USA
MEDICAL EMERGENCY #: 1-866-923-4913 USA
SPILL EMERGENCY #: 1-800-424-9300 USA
PRODUCT INFORMATION #: 1-800-558-9566 (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)
INTERNET ADDRESS: WWW.USCHEMICAL.COM
REVIEWED 5-6-13 REVISED 5-6-13 SECTION REVISED: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
CAUTION! COMBUSTIBLE LIQUID. MAY BE MODERATELY IRRITATING TO EYES AND SKIN.

PRINCIPLE ROUTES OF EXPOSURE: EYES, SKIN, INGESTION.

POTENTIAL ACUTE HEALTH EFFECTS

EYES: MAY BE MODERATELY IRRITATING TO EYES.

SKIN: MAY BE MODERATELY IRRITATING TO SKIN.

INHALATION: NONE KNOWN.

INGESTION: MAY BE IRRITATING TO MOUTH, THROAT AND STOMACH. MAY CAUSE ABDOMINAL DISCOMFORT, NAUSEA, VOMITING AND DIARRHEA.

MEDICAL CONDITIONS AGGRAVATED: PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTABLE TO IRRITATING EFFECTS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS #	% BY WT	LC50/LD50
MONOETHANOLAMINE	141-43-5	1.0 – 5.0	N.AV.
D-LIMONENE	5989-27-5	3.0 – 7.0	N.AV.
DIETHANOLAMINE	111-42-2	1.0 – 5.0	N.AV.
STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS: WATER/7732-18-5, COCAMIDE DEA/68603-42-9, ALCOHOL ETHOXYLATES/68439-46-3, D-LIMONENE/5989-27-5, MONOETHANOLAMINE/141-43-5, DIETHANOLAMINE/111-42-2			

4. FIRST AID MEASURES

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EYES: FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

SKIN: FLUSH IMMEDIATELY WITH PLENTY OF WATER. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

INGESTION: IF PATIENT IS CONSCIOUS AND CAN SWALLOW, GIVE A CUPFUL OF WATER OR MILK.

ADMINISTER FIRST AID TREATMENT AS STATED ABOVE, THEN CALL 1-866-923-4913 OR CONTACT PHYSICIAN FOR FURTHER MEDICAL INSTRUCTIONS.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR ASSISTANCE WITH THE MANAGEMENT OF EXPOSURES.

5. FIRE-FIGHTING MEASURES

FLAMMABILITY: ALTHOUGH THIS PRODUCT HAS A FLASH POINT BELOW 200°F, IT IS AN AQUEOUS SOLUTION WHICH HAS BEEN TESTED AND SHOWN NOT TO SUSTAIN COMBUSTION.

FLASH POINT: 55 °C (131 °F), TCC

PRODUCTS OF COMBUSTION: SEE SECTION 10.

SUITABLE EXTINGUISHING MEDIA: FOR FIRES IN AREA, USE APPROPRIATE MEDIA. FOR EXAMPLE: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR ALCOHOL FOAM.

SPECIFIC HAZARDS: A VAPOR ACCUMULATION MAY FLASH IF IGNITED.

SPECIFIC METHODS: NORMAL FIRE-FIGHTING PROCEDURES MAY BE USED.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: SEE SECTION 8. PUT ON APPROPRIATE PPE.

SPILL RESPONSE: ELIMINATE ALL IGNITION SOURCES. EVACUATE UNPROTECTED PERSONNEL FROM AREA. WEAR PROPER PROTECTIVE EQUIPMENT INCLUDING RUBBER BOOTS. VENTILATE AREA IF NEEDED. STOP LEAK IF YOU CAN DO SO WITHOUT RISK. DIKE OR DAM LARGE SPILLS. AVOID DIRECT DISCHARGE TO SEWER AND SURFACE WATERS. PUMP TO CONTAINER OR SOAK UP WITH NON-COMBUSTIBLE INERT ABSORBENT MATERIALS. AFTER SPILL COLLECTION, FLUSH AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES. WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE. BE CAREFUL AS SPILLS ARE SLIPPERY.

7. HANDLING AND STORAGE

HANDLING: FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES.

USE IN WELL-VENTILATED AREAS. AVOID BREATHING VAPORS OR MISTS.

AVOID INGESTION AND CONTACT WITH EYES. DO NOT TASTE OR SWALLOW.

REMOVE AND WASH CONTAMINATED CLOTHING AND FOOTWEAR BEFORE RE-USE.

PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS.

HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: ROTATE STOCK REGULARLY. KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID TEMPERATURES BELOW 35°F OR ABOVE 120°F. KEEP AWAY FROM HEAT, SPARK AND FLAME. PROTECT FROM FREEZING. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT IS RECOMMENDED. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF CHILDREN'S REACH.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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EXPOSURE LIMITS: DIETHANOLAMINE = 2 MG/M3 TWA-SKIN (ACGIH)
MONOETHANOLAMINE = 3 PPM TWA, 6 PPM STEL (ACGIH), 3 PPM TWA (OSHA)
ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.

PERSONAL PROTECTION

EYES: SAFETY GLASSES WITH SIDE SHIELDS RECOMMENDED IF SPRAYING.
HANDS: FOR PROLONGED OR REPEATED CONTACT WITH SKIN: RUBBER GLOVES.
RESPIRATORY: N.AP.
FEET: N.AP.
BODY: N.AP.

9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR: ORANGE	FLASH POINT: 131°F TCC
ODOR: CITRUS ORANGE	UEL: N.AV.
pH CONCENTRATE: 10.5	LEL: N.AV.
pH @ 2500 PPM SOLUTION: N.AP.	EVAPORATION RATE: N.AP.
pH @ USE DILUTION: N.AP.	ODOR THRESHOLD: N.AP
PHYSICAL STATE: LIQUID	VAPOR PRESSURE: N.AP
SPECIFIC GRAVITY: 1.013	VAPOR DENSITY: N. AP.
VISCOSITY: NON-VISCOUS	COEFF. OIL/WATER: N.AP.
BOILING POINT: N.AP.	WATER SOLUBILITY: COMPLETE
MELTING POINT: N.AP.	OTHER: N.AP.

10. STABILITY AND REACTIVITY

STABLE: YES
CONDITIONS TO AVOID: AVOID TEMPERATURES BELOW 35°F.
AVOID HEAT, SPARKS AND FLAME.
MATERIALS TO AVOID: AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT. AVOID OXIDIZING AGENTS INCLUDING BLEACH. MIX ONLY WITH WATER.
DECOMPOSITION PRODUCTS: FIRE OR MIXING WITH INCOMPATIBLE MATERIALS MAY PRODUCE OXIDES OF CARBON AND OTHER TOXIC OR IRRITATING FUMES.
POSSIBILITY OF HAZARDOUS REACTIONS: N.AP.

11. TOXICOLOGICAL INFORMATION

ACUTE EFFECTS: SEE SECTION 2.
CHRONIC EFFECTS: NONE KNOWN. NO REPORTABLE MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.
CARCINOGENICITY: THIS PRODUCT CONTAINS A COMPONENT THAT IS CLASSIFIED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS GROUP 2B, "POSSIBLY CARCINOGENIC TO HUMANS", WHICH IS GENERALLY BASED ON LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS AND LESS THAN SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS. NO DATA IS AVAILABLE ON THE PRODUCT ITSELF.
LC50/LD50: N.AV.
TARGET ORGANS: EYES, SKIN.
OTHER TOXIC EFFECTS: NONE KNOWN.

12. ECOLOGICAL INFORMATION

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NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: UNDILUTED PRODUCT WITH FLASH POINT BELOW 140 F IS REGULATED UNDER ENVIRONMENTAL AND TRANSPORTATION LAWS AS AN IGNITABLE WASTE (RCRA CLASS D001). COMPLY WITH ALL FEDERAL, STATE, PROVINCIAL AND LOCAL LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION**DOT/TDG:** NOT REGULATED**DOT RQ:** N.AP.**DOT ERG #:** N.AP.**15. REGULATORY INFORMATION****EPA CERCLA RQ:** N.AP.**EPA REGISTERED:** NO**OSHA HAZARDOUS:** YES**PHOSPHORUS CONTENT:** 0.00%**PROPOSITION 65:** WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.**SARA 311/312 HAZARDS:** ACUTE, FIRE**SARA 313 CHEMICALS:** DIETHANOLAMINE**STATE RIGHT TO KNOW:** SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.**VOC:** 8.60% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.**WHMIS CLASS:** D-2B, B-3**16. OTHER INFORMATION****NFPA RATING:** HEALTH-2/FLAMMABILITY-1/REACTIVITY-0/SPECIAL HAZARD-N.AP.**HMIS RATING:** HEALTH-2/FLAMMABILITY-1/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE

PREPARED BY: HEALTH AND SAFETY

NOTICE TO READER

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