

**1. PRODUCT AND COMPANY IDENTIFICATION****NAME: ORANGE FLOAT****USE:** D-LIMONENE BASED CLEANER**LABEL BRAND: MISCO****MSDS # 101513     CODE # 065566, 065567**

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](http://WWW.USCHEMICAL.COM)

REVIEWED 2-2-10    REVISED 2-2-10    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, SKIN ABSORPTION, INGESTION, INHALATION**POTENTIAL ACUTE HEALTH EFFECTS****EYES:** MAY BE MODERATELY IRRITATING TO EYES.**SKIN:** MAY BE MODERATELY IRRITATING TO SKIN.**INHALATION:** INHALATION OF MISTS MAY CAUSE DIZZINESS, HEADACHE AND PULMONARY IRRITATION.**INGESTION:** 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 |
|----------------------------------------------------------------------------------------------------|------------|--------------|-----------|
| D-LIMONENE                                                                                         | 5989-27-5  | 15.0 – 40.0  | N.AV.     |
| PETROLEUM SOLVENT                                                                                  | 64742-48-9 | 60.0 – 100.0 | N.AV.     |
| STATE RIGHT TO KNOW: THIS PRODUCT CONTAINS:<br>PETROLEUM SOLVENT /64742-48-9, D-LIMONENE/5989-27-5 |            |              |           |

#### 4. FIRST AID MEASURES

Page 2 of 4

**EYES:** FLOOD EYES WITH LUKEWARM (NOT HOT) WATER POURED FROM A LARGE GLASS 2 OR 3 INCHES FROM EYES. REMOVE CONTACTS. HAVE PATIENT BLINK AS MUCH AS POSSIBLE WHILE FLOODING THE EYES. CONTINUE FOR AT LEAST 15 MINUTES.

**SKIN:** REMOVE CONTAMINATED CLOTHES, THEN FLOOD WITH WATER.

**INHALATION:** MOVE VICTIM TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF PATIENT IS NOT BREATHING.

**INGESTION:** DO NOT INDUCE VOMITING. IF PATIENT IS CONSCIOUS AND CAN SWALLOW, ADMINISTER MILK OR WATER.

**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:** COMBUSTIBLE LIQUID

**FLASH POINT:** 138 F TCC

**PRODUCTS OF COMBUSTION:** SEE SECTION 10.

**SUITABLE EXTINGUISHING MEDIA:** FOR FIRES IN AREA, USE APPROPRIATE MEDIA. USE DRY CHEMICAL OR ALCOHOL FOAM.

**SPECIFIC HAZARDS:** PRODUCT MAY FLOAT AND BE REIGNITED AT SURFACE.

**SPECIFIC METHODS:** NORMAL PROCEDURES MAY BE USED FOR SOLVENT BASED FIRES.

#### 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS:** SEE SECTION 8.

**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.

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

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, SPARKS 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**

Page 3 of 4

**EXPOSURE LIMITS:** N.AV.**ENGINEERING CONTROLS:** NONE REQUIRED. GENERAL ROOM VENTILATION IS ADEQUATE.**PERSONAL PROTECTION****EYES:** RECOMMEND SAFETY GLASSES WITH SIDE SHIELDS AND AN EYE-WASH STATION.**HANDS:** NEOPRENE, PVC OR BUTYL GLOVES.**RESPIRATORY:** N.AP.**FEET:** N.AP.**BODY:** N.AP.**9. PHYSICAL AND CHEMICAL PROPERTIES****COLOR:** YELLOW**ODOR:** CITRUS**pH CONCENTRATE:** N.AV.**pH @ 2500 PPM SOLUTION:** N.AP.**pH @ USE DILUTION:** N.AP.**PHYSICAL STATE:** LIQUID**SPECIFIC GRAVITY:** 0.778**VISCOSITY:** NON-VISCOUS**BOILING POINT:** N.AP.**MELTING POINT:** N.AP.**FLASH POINT:** 138 F TCC**UEL:** N.AV.**LEL:** N.AV.**EVAPORATION RATE:** N.AP.**ODOR THRESHOLD:** N.AP.**VAPOR PRESSURE:** N.AP.**VAPOR DENSITY:** N. AP.**COEFF. OIL/WATER:** N.AP.**WATER SOLUBILITY:** SLIGHT**OTHER:** N.AP.**10. STABILITY AND REACTIVITY****STABLE:** YES**CONDITIONS TO AVOID:** AVOID TEMPERATURES BELOW 35°F OR ABOVE 115°F.  
AVOID HEAT, SPARKS AND FLAME.**MATERIALS TO AVOID:** AVOID MIXING DIRECTLY WITH ANY OTHER CLEANING PRODUCT.**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 CARCINOGENS, MUTAGENS, SENSITIZERS, SYNERGISTIC MATERIALS, TERATOGENS, OR REPRODUCTIVE TOXINS.**LC50/LD50:** N.AV.**TARGET ORGANS:** NONE KNOWN.**OTHER TOXIC EFFECTS:** NONE KNOWN.

**12. ECOLOGICAL INFORMATION**

Page 4 of 4

NOT AVAILABLE.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** 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 (COMBUSTIBLE EXCEPTION)

**DOT RQ:** N.AP.

**DOT ERG #:** N.AP.

**15. REGULATORY INFORMATION**

**EPA CERCLA RQ:** N.AP.

**EPA REGISTERED:** NO

**EPA VOC:** 100.00%

**EPA VOC RULE:** PRODUCT COMPLIES WITH THE EPA VOC EMISSIONS STANDARD.

**OSHA HAZARDOUS:** YES

**PHOSPHORUS CONTENT:** 0.00%

**PROPOSITION 65:** N.AP.

**SARA 311/312 HAZARDS:** ACUTE, FIRE

**SARA 313 CHEMICALS:** N.AP.

**STATE RIGHT TO KNOW:** SEE SECTION 3 FOR STATE RTK CHEMICAL NAMES.

**TSCA INVENTORY STATUS:** ALL COMPONENTS ARE LISTED ON THE INVENTORY.

**WHMIS CLASS:** D-2B, B-3

**16. OTHER INFORMATION**

**NFPA RATING:** HEALTH-2/FLAMMABILITY-2/REACTIVITY-0/SPECIAL HAZARD-N.AP.

**HMIS RATING:** HEALTH-2/FLAMMABILITY-2/REACTIVITY-0/PERSONAL PROTECTION-SEE 8.0

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

PREPARED BY: HEALTH AND SAFETY

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