

MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-800/8008-57-9.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:

8008-57-9

Code:

M

RTECS:

R18600000

Code:

M

Name:

OIL OF ORANGE/ORANGE TERPENES

Other REC Limits:

NONE RECOMMENDED

OSHA PEL:

NOT ESTABLISHED

Code:

M

OSHA STEL:**Code:****ACGIH TLV:**

NOT ESTABLISHED

Code:

M

ACGIH STEL:

N/P

Code:

Control Measures

Respiratory Protection:

IF WORKING IN CONFINED AREAS, IF EXCESSIVE MISTING IS EXPECTED OR IF EXPOSURE MAY OR DOES EXCEED RECOMMENDED PERMISSIBLE EXPOSURE LIMITS (PEL), WEAR NIOSH-APPROVED RESPIRATORY PROTECTION FOR ORGANIC VAPORS (REFER TO 29 CFR 1910.134).

Ventilation:

MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:

NEOPRENE IF REPEATED CONTACT POSSIBLE

Eye Protection:

SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:

Equipment EYE WASH STATION, SAFETY SHOWER, INDUSTRIAL-TYPE WORK CLOTHING, APRON

Work Hygienic Practices:

OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health:

N/P

Health Hazards Data

LD50/LC50/Mixture:

LD50 (ORAL, RAT) IS NOT KNOWN.

Route Of Entry Inds - Inhalation:

YES

Skin:

NO

Ingestion:

NO

Carcinogenicity Inds - NTP:

NO

IARC:

NO

OSHA:

NO

Health Hazards Acute And Chronic:

TARGET ORGANS: EYE, SKIN, CNS, RESPIRATORY & GI TRACTS. ACUTE- EYE: MAY CAUSE IRRITATION. SKIN: PROLONGED/REPEATED CONTACT MAY CAUSE DEFATTING & DRYING. INHALE: MAY CAUSE CNS EFFECTS. ORAL: MAY RESULT IN CNS EFFECTS & VOMITING. ASPIRATION HAZARD. CHRONIC- DERMATITIS. 2

Explanation Of Carcinogenicity:

NONE

Signs And Symptoms Of Overexposure:

IRRITATION, DROWSINESS, DIZZINESS, NAUSEA, VOMITING, HEADACHE, WEAKNESS, ABDOMINAL DISCOMFORT, DRYNESS OF SKIN, DERMATITIS

Medical Cond Aggravated By Exposure:

INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, CNS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:

CALL PHYSICIAN IF SYMPTOMS PERSIST. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN: WASH WITH SOAP & PLENTY OF WATER. ORAL: DO NOT INDUCE VOMITING. IF PERSON IS DROWSY/UNCONSCIOUS, PLACE ON LEFT SIDE WITH HEAD DOWN. GET MEDICAL ATTENTION. IF POSSIBLE, DO NOT LEAVE INDIVIDUAL UNATTENDED.

Spill Release Procedures:

WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. COVER SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH. TRANSFER TO A SUITABLE CONTAINER FOR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS AND WATERWAYS.

Neutralizing Agent:

NOT RELEVANT

Waste Disposal Methods:

DISPOSAL SHOULD BE IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. INCINERATION IS RECOMMENDED.

Handling And Storage Precautions:

STORE IN COOL, VENTILATED AREA AWAY FROM SOURCES OF IGNITION & STRONG OXIDIZING AGENTS. KEEP OUT OF REACH OF CHILDREN. AVOID STORAGE ABOVE 120F.

Other Precautions:

EMPTY CONTAINERS MAY RETAIN RESIDUE. FOLLOW ALL PRECAUTIONS. DO NOT GET IN EYES. DO NOT BREATHE VAPOR OR MIST. AVOID PROLONGED OR REPEATED SKIN CONTACT. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

Fire and Explosion Hazard Information

Flash Point Method:

COC

Flash Point:**Flash Point Text:**

125F, 52C

Autoignition Temp:**Autoignition Temp Text:**

N/K

Lower Limits:

UNKNOWN

Upper Limits:

UNKNOWN

Extinguishing Media:

USE CARBON DIOXIDE (CO2), ALCOHOL FOAM OR DRY CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:

WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:

3 VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUSTURE DUE TO VAPOR PRESSURE BUILDUP.

Physical/Chemical Properties

HCC:

F4

NR/State LIC No:

NOT RELEVANT

Net Prod WT For Ammo:

0.820

Boiling Point:

330F, 166C

Melt/Freeze Pt:

UNKNOWN

M.P/F.P.:

UNKNOWN

Decomp Temp:

UNKNOWN

Decomp Text:

UNKNOWN

Vapor Pres:

<3

Vapor Density:

<4.7

Volatile Org Content %:

UNKNOWN

Spec Gravity:

0.820

VOC Pounds/Gallon:

UNKNOWN

PH:

N/R

VOC Grams/Liter:

UNKNOWN

Viscosity:

UNKNOWN

Evaporation Rate & Reference:**Solubility in Water:**

RINSABLE

Appearance and Odor:

CLEAR, LIGHT ORANGE LIQUID - CITRUS ODOR

Percent Volatiles by Volume:

99

Corrosion Rate:

UNKNOWN

Reactivity Data**YES 4**

TEMPERATURE APPROACHING FLASH POINT, DIRECT SUNLIGHT, SPARKS, FLAMES AND OTHER SOURCES OF IGNITION

STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE

FUMES, SMOKE, CARBON MONOXIDE, CARBON DIOXIDE

Hazardous Decomposition Products:

UNKNOWN

Corrosive Polymerization Indicator:

NO

Conditions To Avoid Polymerization:

NOT RELEVANT

Toxicological Information

Information:

N/P

MSDS Transport Information

Information:

N/P

Regulatory Information

Sara Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Other Information

Other Information:

N/P

Other Information:

N/P