

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-99/99-86-5.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
99-86-5  
**Code:**  
M

**RTECS:**  
OS8060000  
**Code:**  
M

**Name:**  
ALPHA-TERPINENE

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M N/P

**ACGIHSTEL:**  
EPA Rpt Qty: DOT Rpt Qty: Ozone Depleting Chem  
**Code:**  
1 ACGIH STEL:

## Control Measures

**Respiratory Protection:**  
USE NIOSH-APPROVED RESPIRATOR FOR ORGANIC VAPORS.

**Ventilation:**  
LOCAL EXHAUST: SUGGESTED. MECHANICAL: AS REQUIRED.

**Protective Gloves:**  
UNITED A392, BUTYL RUBBER, OR PVA

**Eye Protection:**  
CHEMICAL GOGGLES

**Other Protective Equipment:**  
Equipment AS REQUIRED

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH HANDS &FACE THOROUGHLY W/SOAP &WATER AFTER USING PRODUCT.

**Supplemental Safety and Health:**  
N/K

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
EYES: IRRITATION. SKIN: SLIGHT ALLERGEN, REMOVAL OF NATURAL OILS, & IRRITATION. INHALATION: IRRITATION OF NOSE, THROAT, & LUNGS, & MAY CAUSE NAUSEA. INGESTION: NAUSEA, VOMITING, & DIARRHEA.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
EYES: IRRITATION. SKIN: SLIGHT ALLERGEN, REMOVAL OF NATURAL OILS, & IRRITATION. INHALATION: IRRITATION OF NOSE, THROAT, & LUNGS, & MAY CAUSE NAUSEA. INGESTION: NAUSEA, VOMITING, & DIARRHEA.

**Medical Cond Aggravated By Exposure:**  
N/K

**First Aid:**  
EYES: FLUSH W/WATER FOR AT LEAST 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. INGESTION: INDUCE VOMITING IF MORE THAN ONE OUNCE IS TAKEN. SYRUP OF IPECAC IS RECOMMENDED. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
COLLECT & PLACE IN A SUITABLE CONTAINER. USE CLAY OR MINERAL ABSORBENTS. KEEP FROM SOURCES OF IGNITION. DON'T ALLOW LARGE QUANTITIES TO ENTER WATERWAYS.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
POUR SMALL AMOUNTS DOWN SANITARY SEWERS. DISPOSE OF CONTAMINATED MATERIAL IN AN APPROVED LANDFILL OR BY BURNING, IF ALLOWED. FOLLOW LOCAL, STATE, & FEDERAL REGULATIONS. SOAK CONTAMINATED RAGS W/WATER BEFORE DISPOSAL.

**Handling And Storage Precautions:**  
KEEP IN PROPERLY LABELED, TIGHTLY CLOSED CONTAINERS. STORE IN A COOL, WELL-VENTILATED AREA AWAY FROM SOURCES OF IGNITIONS.

**Other Precautions:**  
N/K

## Fire and Explosion Hazard Information

**Flash Point Method:**  
TCC

**Flash Point:**

**Flash Point Text:**  
125F

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
0.7%

**Upper Limits:**  
6.1% 3

**Extinguishing Media:**  
DRY CHEMICAL FOAM, CO2, WATER ONLY AS A SPRAY OR FOG, & OTHER CLASS B EXTINGUISHING MEDIA

**Fire Fighting Procedures:**  
USE WATER FOG OR SPRAY TO KEEP CONTAINERS COOL & TO PREVENT RUPTURING.

**Unusual Fire/Explosion Hazard:**  
CLOSED CONTAINERS MAY BURST OR RUPTURE DUE TO PRESSURE BUILD-UP. RAGS SOAKED W/PRODUCT MAY SPONTANEOUSLY IGNITE.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
347F

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/K

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
1

**Vapor Density:**  
4.7

**Volatile Org Content %:**

**Spec Gravity:**  
0.875

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
(BU AC = 1):

**Solubility in Water:**  
EMULSIFIES 4

**Appearance and Odor:**  
CLEAR GREEN LIQUID W/SWEET, AROMATIC ODOR.

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
SOURCES OF IGNITION

**Materials To Avoid:**  
STRONG OXIDIZING AGENTS

**Hazardous Decomposition Products:**  
CO &CO2

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K

## 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