

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-540/540-84-1.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
540-84-1

Code:
T

RTECS:
SA3320000

Code:
T 2

Name:
ISO OCTANE (2,2,4-TRIMETHYLPENTANE) Environmental

Other REC Limits:
NOT ESTABLISHED

OSHA PEL:
NOT ESTABLISHED

Code:
M

OSHA STEL:

Code:

ACGIH TLV:
NOT ESTABLISHED

Code:
M

ACGIH STEL:
N/P

Code:

Control Measures

Respiratory Protection:
FOR CONCENTRATIONS EXCEEDING THE RECOMMENDED EXPOSURE LIMIT, USE NIOSH APPROVED AIR PURIFYING RESPIRATOR.

Ventilation:
USE ADEQUATE VENTILATION TO CONTROL CONCENTRATION BELOW RECOMMENDED EXPOSURE LIMITS

Protective Gloves:
NEOPRENE - RESISTANT TO MATERIAL BEING USED.

Eye Protection:
USE CHEMICAL SAFETY GOGGLES FACESHIELD

Other Protective Equipment:
Equipment EYE WASH STATION SAFETY SHOWER.

Work Hygienic Practices:
DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT. WASH SKIN AFTER USING PRODUCT. DO NOT EAT, DRINK OR SMOKE IN WORK AREA.

Supplemental Safety and Health:
PPE BASED ON NORMAL USES & CONDITIONS. FOR SPECIAL/UNUSUAL CONDITIONS, USE EXPERT ADVISE OF INDUSTRIAL HYGIENIST OR OTHER QUALIFIED PERSONNEL.

Health Hazards Data

LD50LC50Mixture:
ORAL LD50 (RAT) IS >5000 MG/KG

Route Of Entry Inds - Inhalation:
YES

Skin:
NO

Ingestion:
YES

Carcinogenicity Inds - NTP:
NO

IARC:
NO

OSHA:
NO

Health Hazards Acute And Chronic:
ACUTE: EYE/SKIN: MAY PRODUCE MILD IRRITATION. INHALATION: MAY CAUSE SLIGHT MUCOUS MEMBRANE IRRITATION, RAPID BREATHING, FATIGUE, HEADACHE, LIGHT HEADEDNESS, DIZZINESS & OTHER CNS EFFECTS. EXTREME EXPOSURES MAY CAUSE RESPIRATORY ARREST, CONVULSIONS OR UNCONSCIOUSNESS. INGESTION: MAY CAUSE DIARRHEA, SLIGHT CNS DEPRESSION, DIFFICULTY IN BREATHING AND FATIGUE. IF SWALLOWED, MAY BE ASPIRATED RESULTING IN INFLAMMATION & POSSIBLE FLUID ACCUMULATION IN THE LUNGS.

Explanation Of Carcinogenicity:
THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Signs And Symptions Of Overexposure:
SEE HEALTH EFFECTS SECTION FOR ACUTE EFFECTS. SUBCHRONIC & CHRONIC EFFECTS: IN A SUBCHRONIC ORAL LAB STUDY ISO OCTANE HAS PRODUCED KIDNEY DAMAGE IN MALE RATS ONLY. NO COMPARABLE HEALTH HAZARD FOR KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.

Medical Cond Aggravated By Exposure:
ISO OCTANE HAS PRODUCED KIDNEY DAMAGE IN MALE RATS ONLY IN A SUBCHRONIC ORAL LABORATORY STUDY. NO COMPARABLE HEALTH HAZARD FOR KIDNEY DISEASE IS KNOWN TO OCCUR IN HUMANS.

First Aid:
SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: REMOVE TO FRESH AIR & RESTORE BREATHING IF NECESSARY. GET MEDICAL ATTENTION. EYE : IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. INGESTION: GET IMMEDIATE MEDICAL ATTENTION. DO NOT INDUCE VOMITING. NOTHING BY MOUTH IF UNCONSCIOUS. NO TELL TO PHYSICIAN: GASTRIC LAVAGE USING CUFFED ENDOTRACHEAL TUBE MAY BE PERFORMED AT YOUR DIS

Spill Release Procedures:
4 EVACUATE AREA. WEAR PROTECTIVE EQUIPMENT AND SCBA. SHUT OFF SOURCE, IF POSSIBLE AND CONTAIN SPILL. PROTECT FROM IGNITION. KEEP OUT OF WATER SOURCES AND SEWERS. ABSORB IN A DRY, INERT MATERIAL. TRANSFER TO DISPOSAL DRUMS USING NON-SPARKING EQUIPMENT.

Neutralizing Agent:
NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Methods:
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE & FEDERAL REGULATIONS. INCINERATE OR PLACE IN PERMITTED WASTE MANAGEMENT FACILITY.

Handling And Storage Precautions:
STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM SOURCES OF IGNITION. KEEP CONTAINERS CLOSED WHEN NOT IN USE. EMPTY CONTAINERS MAY BE HAZARDOUS.

Other Precautions:
AVOID CONTACT WITH EYES, SKIN, OR CLOTHING. AVOID BREATHING VAPORS. WEAR PROTECTIVE EQUIPMENT AND/OR GARMENTS. WASH THOROUGHLY AFTER HANDLING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. PROVIDE MEANS OF CONTROLLING LEAKS AND SPILLS. USE WITH ADEQUATE VENTILATION.

Fire and Explosion Hazard Information

Flash Point Method:
TCC

Flash Point:
=-7.6C, 18.F

Flash Point Text:

Autoignition Temp:

Autoignition Temp Text:
N/K

Lower Limits:
1.0

Upper Limits:
NOT ESTABL

Extinguishing Media:
DRY CHEMICAL, FOAM OR CARBON DIOXIDE

Fire Fighting Procedures:
EVACUATE AREA, SHUT OFF SOURCE. WEAR SCBA & OTHER PROTECTIVE EQUIPMENT. WATER SPRAY MAY BE USED TO COOL FIRE EXPOSED CONTAINERS. DO NOT SPRAY WATER ON FIRE AS PRODUCT WILL FLOAT AND COULD BE RE-IGNITED ON SURFACE OF WATER.

Unusual Fire/Explosion Hazard:
CARBON OXIDES FORMED WHEN BURNED. HIGHLY FLAMMABLE VAPORS WHICH ARE HEAVIER THAN AIR MAY ACCUMULATE IN LOW AREAS AND/OR SPREAD ALONG GROUND AWAY FROM HANDLING SITE. PRODUCT WILL FLOAT ON WATER.

Physical/Chemical Properties

HCC:
F2

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:

B.P. Text:
211F,99C

Melt /Freeze Pt:

M.P/F.P Text:
-161F,-107C

Decomp Temp:

Decomp Text:
NOT GIVEN 6

Vapor Pres:
1.7PSIA @ 100F

Vapor Density:
>1

Volatile Org Content %:

Spec Gravity:
0.696

VOC Pounds/Gallon:

PH: N/R

VOC Grams/Liter:

Viscosity:
0.503 CST @ 68F

Evaporation Rate & Reference:
>1 (N-BUTYL ACETATE = 1)

Solubility in Water:
NEGLECTIBLE

Appearance and Odor:
CLEAR, COLORLESS LIQUID - MILD GASOLINE ODOR.

Percent Volatiles by Volume:
100

Corrosion Rate:
UNKNOWN

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
EXTREME HEAT OR SOURCES OF IGNITION

Materials To Avoid:
OXYGEN AND STRONG OXIDIZING AGENTS

Hazardous Decomposition Products:
CARBON MONOXIDE, CARBON DIOXIDE AND OTHER HYDROCARBON COMPOUNDS DURING COMBUSTION.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
NONE. WILL NOT OCCUR.

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