

MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-591/591-76-4.html> for suppliers of this product.

Composition/Information on Ingredient

Cas:
591-76-4
Code:
M

RTECS:

Code:
X

Name:
2-METHYLHEXANE Environmental Wt: Other REC Limi

Other REC Limits:
NONE RECOMMENDED

OSHA PEL:
2.5 MG/M3
Code:
M

OSHA STEL:
N/P
Code:
1

ACGIH TLV:
NOT ESTABLISHED
Code:
M

ACGIHSTEL:
N/P
Code:

Control Measures

Respiratory Protection:
APPROVED RESPIRATORY EQUIPMENT MUST BE USED WHEN AIRBORNE CONCENTRATIONS ARE UNKNOWN OR EXCEED THE TLV.

Ventilation:
USE IN WELL VENTILATED AREA WITH LOCAL EXHAUST VENTILATION. VENTILATION REQUIRED AND EQUIPMENT MUST BE EXPLOSION PROOF. USE AWAY FROM ALL IGNITION SOURCES. 7

Protective Gloves:
IMPERVIOUS GLOVES SHOULD BE WORN.

Eye Protection:
SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES IF SPLASH IS POSSIBLE.

Other Protective Equipment:
Equipment N/P

Work Hygienic Practices:
GOOD PERSONAL HYGIENE PRACTICES SHOULD ALWAYS BE FOLLOWED.

Supplemental Safety and Health:
N/P

Health Hazards Data

LD50LC50Mixture:
ORAL, RATS, LD50:>2000 MG/KG.

Route Of Entry Inds - Inhalation:
YES

Skin:
YES

Ingestion:
N/P

Carcinogenicity Inds - NTP:
N/P

IARC:
N/P

OSHA:
N/P

Health Hazards Acute And Chronic:
EYE IRRITATION, RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. SKIN IRRITATION. STUDIES CONDUCTED EXAMINING CAUSES OF DEATH OF DISTRIBUTION WORKERS WITH LONG-TERM EXPOSURE TO GASOLINE HAVE NOT FOUND ANY GASOLINE-RELATED HEALTH EFFECTS. REPORTS OF CHRONIC GASOLINE ABUSE (SUCH AS SNIFFING) AND CHRONIC MISUSE OF GASOLINE AS SOLVENT OR CLEANING AGENT HAVE REPORTED A RANGE OF NEUROLOGICAL EFFECTS (NERVOUS SYSTEM EFFECTS), SUDDEN DEATHS FROM CARDIAC ARREST, HEMATOLOGIC CHANGE

Explanation Of Carcinogenicity:
LONG-TERM EXPOSURE TO GASOLINE VAPOR HAS CAUSED KIDNEY AND LIVER CANCER IN LABORATORY ANIMALS.

Signs And Symptoms Of Overexposure:
EYES: IRRITATION. SKIN: IRRITATION. INHALATION: RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, LOSS OF CONSCIOUSNESS. CHRONIC GASOLINE ABUSE (EFFECTS NOT EXPECTED TO OCCUR AT EXPOSURE LEVELS ENCOUNTERED IN THE DISTRIBUTION AND USE OF GASOLINE AS A MOTOR FUEL.): NERVOUS SYSTEM EFFECTS; SUDDEN DEATH FROM CARDIAC ARREST; HEMATOLOGIC CHANGES (BLOOD EFFECTS); LUKEMIA.

Medical Cond Aggravated By Exposure:
N/P

First Aid:
EYE CONTACT: FLUSH THOROUGHLY WITH WATER. IF IRRITATION OCCURS, CALL A PHYSICIAN. SKIN CONTACT: WASH CONTACT AREAS WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. INHALATION: MOVE TO FRESH AIR. IF RESPIRATORY IRRITATION, DIZZINESS, NAUSEA, OR UNCONSCIOUSNESS OCCURS, SEEK MEDICAL ASSISTANCE. IF BREATHING SLOWED, ASSIST VENTILATION WITH BAG-VALVE-MASK DEVICE OR USE MOUTH-TO-MOUTH RESUSCITATION. INGESTION: SEEK IMMEDIATE MEDICAL ATTENTION. DO NOT

Spill Release Procedures:
ELIMINATE IGNITION SOURCES. RUNOFF MAY CREATE FIRE OR EXPLOSION HAZARD IN SEWER SYSTEM. ABSORB ON FIRE RETARDANT TREATED SAWDUST, DIATOMACEOUS EARTH, ETC. SHOVEL UP AND DISPOSE. PREVENT SPILLS FROM ENTERING STORM SEWERS, DRAINS, SOIL. REPORT SPILLS AS REQUIRED TO AUTHORITIES. U.S. COAST GUARD REQUIRES IMMEDIATE REPORTING OF SPILLS THAT COULD REACH ANY WATERWAY INCLUDING INTERMITTENT (SEE BELOW).

Neutralizing Agent:
(FROM ABOVE) DRY CREEKS. REPORT SPILL TO COAST GUARD TOLL FREE (800-424-8802); ROAD SPILLS NOTIFY CHEMTREC.

Waste Disposal Methods:
PRODUCT IS SUITABLE FOR BURNING FOR FUEL VALUE IN COMPLIANCE WITH APPLICABLE LAWS AND REGULATIONS. DISPOSAL OF UNUSED PRODUCT MAY BE SUBJECT TO RCRA REGULATIONS (40 CFR 261) DUE TO BENZENE (2.32%, TCLP, FLASH<-40F). DISPOSAL OF USED PRODUCT MAY ALSO BE REGULATED DUE TO IGNITABILITY, CORROSIVITY, REACTIVITY, OR TOXICITY AS DETERMINED BY TCLP.

Handling And Storage Precautions:
NEVER SIPHON GASOLINE BY MOUTH AND DO NOT USE AS A SOLVENT OR CLEANING AGENT. USE NON-SPARKING TOOLS AND EXPLOSION-PROOF EQUIPMENT. USE IN WELL VENTILATED AREAS AWAY FROM IGNITION SOURCES. PORTABLE CONTAINERS MUST BE PLACED ON GROUND AND NOZZLE KEPT IN CONTACT WHEN FILLING TO PREVENT STATIC SPARKS.

Other Precautions:
DRUMS MUST BE GROUNDED AND BONDED AND EQUIPPED WITH SELF-CLOSING VALVES, PRESSURE VACUUM BUNGS, AND FLAME ARRESTERS. STORE AWAY FROM IGNITION SOURCES IN A COOL AREA EQUIPPED WITH AUTOMATIC SPRINKLING SYSTEM. OUTSIDE OR DETACHED STORAGE PREFERRED. STORAGE CONTAINERS SHOULD BE GROUNDED AND BONDED.

Fire and Explosion Hazard Information

Flash Point Method:
TCC

Flash Point:
<-40.C, -40.F

Flash Point Text:

Autoignition Temp:

Autoignition Temp Text:
N/P

Lower Limits:
1.4

Upper Limits:
7.6

Extinguishing Media:
CARBON DIOXIDE, FOAM, DRY CHEMICAL, WATER FOG. NFPA HAZARD ID: HEALTH: 1; FLAMMABILITY: 3; REACTIVITY: 0.

Fire Fighting Procedures:
FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST USE SELF-CONTAINED BREATHING APPARATUS. FOR LARGE SPILLS, FOAM IS THE PREFERRED AGENT; BLANKETING THE GASOLINE SURFACE. WATER SPRAY MAY BE USED TO FLUSH SPILL AWAY FROM EXPOSURE; PREVENT SPREADING GASOLINE INTO SEWERS, STREAMS, DRINKING WATER SUPPLIES.

Unusual Fire/Explosion Hazard:
EXTREMELY FLAMMABLE. VAPOR ACCUMULATION COULD FLASH AND/OR EXPLODE IF IN CONTACT WITH OPEN FLAME. IF SPILL HAS NOT IGNITED, ADD FOAM BLANKET TO SUPPRESS RELEASE OF VAPORS. IF FOAM NOT AVAILABLE, A WATER SPRAY CURTAIN CAN BE USED TO DISPERSE VAPORS AND PROTECT PERSONNEL ATTEMPTING TO STOP THE LEAK.

Physical/Chemical Properties

HCC:
F2

NRC/State LIC No:
N/R

Net Prop WT For Ammo:

Boiling Point:
>35.C, 95.F

B.P. Text:

Melt/Freeze Pt:

M.P/F.P Text:
NOT ESTABLISHED

Decomp Temp:

Decomp Text:
N/P

Vapor Pres:
>400.0 MMHG @20C

Vapor Density:
3.0

Volatile Org Content %:

Spec Gravity:
0.79

VOC Pounds/Gallon:

PH: N/A

VOC Grams/Liter:

Viscosity:
<1.0 CST@ 40 C

Evaporation Rate & Reference:
NOT ESTABLISHED

Solubility in Water:
NEGLECTIBLE

Appearance and Odor:
CLEAR LIQUID (MAY BE DYED), GASOLINE ODOR.

Percent Volatiles by Volume:
N/P

Corrosion Rate:
N/P

Reactivity Data

Stability Indicator:
YES

Stability Condition To Avoid:
HEAT, SPARKS, FLAME AND BUILD UP OF STATIC ELECTRICITY.

Materials To Avoid:
HALOGENS, STRONG ACIDS, ALKALIES, AND OXIDIZERS.

Hazardous Decomposition Products:
CARBON MONOXIDE.

Hazardous Polymerization Indicator:
NO

Conditions To Avoid Polymerization:
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