

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-684/68476-30-2.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
68476-30-2  
**Code:**  
M  
**RTECS:**  
LS8930000  
**Code:**  
M  
**Name:**  
NO. 2 FUEL OIL  
**Other REC Limits:**  
5 MG/M3 OIL MIST  
**OSHA PEL:**  
5 MG/M3 AS OIL MIST  
**Code:**  
M  
**OSHA STEL:**  
**Code:**  
**ACGIH TLV:**  
5 MG/M3 AS OIL MIST  
**Code:**  
M  
**ACGIHSTEL:**  
N/P  
**Code:**  
1

## Control Measures

**Respiratory Protection:**  
NOT REQUIRED IN WELL VENTILATED AREAS. IN CONFINED SPACES, NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS IS REQUIRED.  
**Ventilation:**  
MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).  
**Protective Gloves:**  
NEOPRENE, NITRILE RECOMMENDED  
**Eye Protection:**  
CHEMICAL SAFETY GOGGLES RECOMMENDED  
**Other Protective Equipment:**  
Equipment EYE WASH STATION, SAFETY SHOWER, BARRIER CREAMS SPECIFIC FOR PETROLEUM-BASED MATERIALS, PROTECTIVE CLOTHING  
**Work Hygienic Practices:**  
3 DO NOT TAKE INTERNALLY. AVOID SKIN CONTACT. WASH SKIN AFTER USING PRODUCT. AVOID BREATHING VAPORS.  
**Supplemental Safety and Health:**  
FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN.

## Health Hazards Data

**LD50LC50Mixture:**  
LD50 (ORAL, RAT) IS 14000 MG/KG.  
**Route Of Entry Inds - Inhalation:**  
YES  
**Skin:**  
YES  
**Ingestion:**  
NO  
**Carcinogenicity Inds - NTP:**  
NO  
**IARC:**  
NO  
**OSHA:**  
NO  
**Health Hazards Acute And Chronic:**  
TARGET ORGANS: EYE, SKIN, RESPIRATORY & GI TRACTS. ACUTE- MAY CAUSE IRRITATION OF EYES, SKIN, RESPIRATOR & GI TRACTS. INGESTION MAY CAUSE HARMFUL CNS EFFECTS. PROLONGED INHALATION OF HIGH VAPOR CONCENT RATIONS MAY CAUSE DIZZINESS, HEADACHE & DEGENERATIVE CHANGES TO LIVER, KIDNEYS & BONE MARROW. CHRONIC- DERMATITIS.  
**Explanation Of Carcinogenicity:**  
NIOSH(BASED ON TESTS ON MICE & RATS) RECOMMENDS THAT WHOLE DIESEL EXHAUST BE REGARDED AS A POTENTIAL CARCINOGEN.  
**Signs And Symptions Of Overexposure:**  
EYES, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACTS IRRITATION; HEADACHE, DIZZINESS, NAUSEA, VOMITING, EXCITATION, DROWSINESS, RESPIRATORY ARREST, COMA, DEATH, EYE REDNESS, TEARNING AND BLURRED VISION ; SKIN CRACKING, ALLERGIC REACTION, POISONING FROM ABSORPTION  
**Medical Cond Aggravated By Exposure:**  
MAY AGGRAVATE PRE-EXISTING DERMATITIS.  
**First Aid:**  
GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED: REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES: FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN: WASH WITH SOAP & WATER. ORAL: DO NOT INDUCE VOMITING. IF CONSCIOUS, RINSE MOUTH WITH WATER & DRINK 1-2 GLASSES OF WATER/MILK. SEEK IMMEDIATE MEDICAL ATTENTION. IF SPONTANEOUS VOMITING OCCURS, MONITOR FOR BREATHING DIFFICULTY.  
**Spill Release Procedures:**  
WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. CONTAIN SPILL. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND, EARTH/USE PUMP (EXPLOSION PROOF). GROUND ALL HANDLING EQUIPMENTS. PREVENT LIQUID FROM ENTERING SEWERS.  
**Neutralizing Agent:**  
NOT RELEVANT  
**Waste Disposal Methods:**  
2 MAXIMIZE PRODUCT RECOVERY FOR REUSE OR RECYCLING. CONTAMINATED MATERIALS MAY BE CLASSIFIED AS RCRA HAZARDOUS DUE TO THE LOW FLASH POINT. WASTE MAY BE INCINERATED. OBSERVE ALL LOCAL, STATE AND FEDERAL REGULATIONS.  
**Handling And Storage Precautions:**  
STORE IN COOL (<100F), WELL-VENTILATED AREA, AWAY FROM HEAT, FLAMES, SPARKS, HOT SURFACES & INCOMPATIBLE MATERIALS. BOND & GROUND CONTAINERS.  
**Other Precautions:**  
"EMPTY" CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS. THEY MAY EXPLODE AND CAUSE INJURY/DEATH. KE EP OUT OF REACH OF CHILDREN.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
PMCC  
**Flash Point:**  
**Flash Point Text:**  
100F, 38C  
**Autoignition Temp:**  
**Autoignition Temp Text:**  
495F  
**Lower Limits:**  
0.6  
**Upper Limits:**  
7.5  
**Extinguishing Media:**  
FOAM, DRY CHEMICAL, CARBON DIOXIDE, HALON, WATER SPRAY. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES.  
**Fire Fighting Procedures:**  
WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.  
**Unusual Fire/Explosion Hazard:**  
VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

## Physical/Chemical Properties

**HCC:**  
F4  
**NRC/State LIC No:**  
NOT RELEVANT  
**Net Prop WT For Ammo:**  
**Boiling Point:**  
**B.P. Text:**  
340F - 700F  
**Melt/Freeze Pt:**  
**M.P/F.P Text:**  
UNKNOWN  
**Decomp Temp:**  
**Decomp Text:**  
UNKNOWN  
**Vapor Pres:**  
0.5 @ 70F  
**Vapor Density:**  
>1  
**Volatile Org Content %:**  
**Spec Gravity:**  
0.86 @ 60F  
**VOC Pounds/Gallon:**  
**PH:** N/R  
**VOC Grams/Liter:**  
**Viscosity:**  
33-38SUS@100F  
**Evaporation Rate & Reference:**  
VARY WITH CONDITIONS  
**Solubility in Water:**  
NEGLEGIBLE  
**Appearance and Odor:**  
CLEAR BLUE LIQUID, MILD PETROLEUM DISTILLATE ODOR  
**Percent Volatiles by Volume:**  
100  
**Corrosion Rate:**  
UNKNOWN

## Reactivity Data

**Stability Indicator:**  
YES  
**Stability Condition To Avoid:**  
HIGH TEMPERATURES, OPEN FLAMES, WELDING, SMOKING AND IGNITION SOURCES.  
**Materials To Avoid:**  
STRONG OXIDIZING AGENTS  
**Hazardous Decomposition Products:**  
CARBON MONOXIDE, CARBON DIOXIDE, AND REACTIVE HYDROCARBONS (SMOKE).  
**Hazardous 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