



Material Safety Data Sheet

Date of Revision : May 5, 2005

SECTION-1 CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Supplier / Manufacturer : Parker Industries, Inc.
14-12, Nakaikegami 2-chome, Ohta-ku, Tokyo, Japan 146-0081
Company Contact: Engineering Department
Tel : (03)5748-4051 Fax : (03)5748-4070
Emergency Contact : (047) 433-3947
Business Hours : Monday - Friday 8:30 a.m. - 5:00 p.m.

【Reference Number】 220711

Product / Trade Name NOX-RUST 307-80K

SECTION-2 COMPOSITION / INFORMATION ON INGREDIENTS

Single Entity or Compound : Compound
Chemical Name : Petroleum Hydrocarbon and Additive
Composition : Petroleum Hydrocarbon < 85 %
Ethylene Glycol Monobutyl Ether < 4 %
Rust Preventive Additive > 11 %

Structural Formula : N/A
Official Gazette Index Number : Trade Secret
CAS Number : Proprietary Mixture
Labor Safety Hygiene Act : Ethylene Glycol Monobutyl Ether 2.0 - 3.0 %
Kerosene 75 - 85 %

Pollutant Release and Transfer Register : No. 63 Xylene 1.1 % (as a component of Kerosene)

SECTION-3 HAZARDS IDENTIFICATION

Classification : Flammable Liquid, Acute Toxicity Substance
Potential Health Effects are as follows.

Hazards : Hazardous as defined Class 4 Petroleum 2 (Un-water-miscible) under Fire Law

Potential Health Effects : 1. Harmful if swallowed and may cause serious irreversible effects.
2. Exposure to highly dense mist irritates skin and mucous membrane, and may cause dermatitis and also nausea, headache or dizziness.

Environmental Effects : No information available

SECTION-4 FIRST AID MEASURES

- Eye Contact : Immediately flush eyes with fresh water for at least 15 minutes. If irritation persists, seek immediate medical attention.
- Skin Contact : Wash skin with soap and water, and apply skin conditioning cream. Wash contaminated clothing before reuse.
- Inhalation : Remove victim to fresh air and rest covering with blanket. If necessary, get medical attention. In case of respiratory arrest or irregular breathing, slacken clothing to ensure respiratory tract and give artificial respiration.
- Ingestion : Do not induce vomiting. Get immediate medical attention. If the mouth is contaminated, flush away the contamination with water.

SECTION-5 FIRE FIGHTING MEASURES

- Fire Fighting Instructions : 1. Extinguish the source of fire.
2. For initial fire, Use dry powder or carbon dioxide fire extinguisher.
3. For large fire, form fire extinguisher is useful. Water may enlarge the fire and increase the risk.
4. Use water to cool peripheral equipment.
5. When firefighting, wear proper protection apparatus and stay upwind.
6. Isolate hazard area and deny entry.
- Extinguishing Media : Water fog, foam, dry powder or carbon dioxide fire extinguisher are useful. Never use shaft of water.

SECTION-6 ACCIDENTAL RELEASE MEASURES

- Spill Procedures : 1. Remove fire hazards and stop the leak.
2. Keep unnecessary people away and deny entry by cordoning off the hazardous area.
3. Prepare fire extinguishing equipment. Wear protection apparatus.
4. For small spills, wipe up with absorbent materials such as earth, sand, sawdust or rags.
5. For large spills, contain spill with banking, cover liquid with foam and place into containers for later disposal.
6. Never run off into sewerage and avoid occurrence of secondary hazard or environmental pollution.
7. When spilled indoors, open windows and doors to ventilate.
8. When spilled at sea, contain spill with oil fence enclosure and take up with absorption mat. When applying chemicals, compliance with the technical standards specified in the directives of the Ministry of Land, Infrastructure and Transport should be observed.

SECTION-7 HANDLING AND STORAGE

- Handling :
1. When handling a quantity exceeding the normality, handle at officially compliant facility for production, storage or handling.
 2. Keep away from flames, sparks or hot surfaces. Avoid unnecessary divergence of steam.
 3. Take countermeasures against static electricity. Wear conductive clothing and shoes.
 4. When taking up, use pump. Never suck up with mouth using tubing and swallow.
 5. Wear protector, if possible contact with eyes and skin is anticipated.
 6. For handling volatile petroleum products that fall under a category set forth by the Regulation on Prevention for Chemical Hazards or the Regulation on Prevention for Organic solvent Poisoning, it is mandatorily required to furnish protective installations such as total shut-in system and local ventilator.
 7. Do not handle roughly by overturning or giving shock to the container.
 8. Each time after use, keep container tightly closed.
- Storage :
1. Store in cool, well-ventilated area.
 2. Keep away from other hazardous materials such as halogen, strong acid, alkaline and oxidants.
 3. Use explosionproof electric fittings with earthing in the storage house.
 4. Storage with indication of hazardous material.
 5. Avoid buildup of heat, spark, flame or static electricity.
 6. Recommendable to use safety container materials specified by the Fire Protection Law.

SECTION-8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Limits :
- | | | |
|---------------------------------|---|--------|
| Petroleum Hydrocarbon | : | N/A |
| Ethylene Glycol Monobutyl Ether | : | 25 ppm |
- Permissible Exposure Limits :
- | | | |
|--|---|-------------------|
| Japan Association on Industrial Health | : | No Recommendation |
| ACGIH TLV-TWA | : | 100 ppm / 25 ppm |
- Protective Installations :
- Provide adequate local explosion-proof ventilation indoors and washing facility for washing exposed skin areas on the work site.
- Protectors :
1. Respiratory Protection : Generally not require. If needed, use gas mask (for organic gas).
 2. Eye Protection : Use safety glasses, if splashing is anticipated.
 3. Hand Protection : Use oil proof gloves for prolonged and/or frequent contact.
 4. Protective Clothing : Use oil proof clothing with long sleeves for prolonged contact.

SECTION-9 PHYSICAL AND CHEMICAL PROPERTIES

- | | | | | | |
|---------------------------|---|------------------------|-------------------------|---|-----------------|
| Appearance | : | Red-brown Clear Liquid | Vapor Pressure Pa 20 °C | : | < 3000 |
| Boiling Point °C | : | > 150 | Volatility | : | No |
| Density g/cm ³ | : | 0.75 - 0.85 | Miscibility (Water) | : | Hardly Miscible |
| Congeaing Point °C | : | < - 5 | Odor | : | Petroleum |

SECTION-10 STABILITY AND REACTIVITY

- Flash Point °C : > 35

Fire Point °C	: > 230
Explosion Limit	: Upper : 7 % Lower : 1 % (estimate)
Combustibility	: Combustible
Spontaneous Combustibility	: N/A
Reactivity with Water	: N/A
Oxidizability	: N/A
Self-reactivity · Explosibility	: N/A
Stability	: Stable
Reactivity	: Avoid contact with oxidants and excessive heat.

SECTION-11 TOXICOLOGY INFORMATION

Dermal Attack	: No information available
Irritation (Skin, Eyes)	: Liquid has a slight irritation to skin. : Highly dense vapor or mist irritates eyes. : Inhalation of highly dense vapor or mist irritates respiratory organ and may cause headache, dizziness, paralysis, drowsiness or unconsciousness, and may affect central nervous system.
Sensitizability	: No information available
Acute Toxicity	: Oral-rat LD50 No data available, mild toxicity
(Petroleum Hydrocarbon)	: Oral-rat LD50 > 5 g/kg, slight toxicity
Subacute Toxicity	: Prolonged or repeated exposure to liquid may cause defatting, rough, dry skin and dermatitis. : Prolonged and excess inhalation may cause chronic inflammation in lungs and pulmonary vein fibrosis.
Chronic Toxicity	: No information available
Carcinogen	: IARC Group 3
Mutagen	: No information available
Fertility Toxicity	: No information available
Monstergen	: No information available
Others	: Accidental irritate stomach and may cause vomiting, stomachache and diarrhea.

SECTION-12 ECOLOGICAL INFORMATION

Biodegradability	: No information available
Bioaccumulation	: No information available
Fish Toxicity	: No information available

SECTION-13 DISPOSAL INFORMATION

1. It is the responsibility of the user to dispose of wastes on their own, or to determine compliance status with all applicable requirements prior to disposal at authorized disposers or local authority.
2. Prohibited to discard.

3. When filling waste oil in ground, combust in incinerator. It is required to ensure that content of heavy metals in the burnt residue be less than the level specified by the Prime Minister's Office Directive.
4. When incinerating, perform at a safety place in such a way as not to cause harm or damage with incineration or explosion with vigilance.

SECTION-14 TRANSPORTATION INFORMATION

UN Classification and UN Dangerous Goods Number : 3.3 / 1223

1. Transport the container without aggressive friction and vibration.
2. When transporting a quantity exceeding the normality on a vehicle, display an indicator on the vehicle pursuant to the Ministry of Home Affairs Directives and equip with a fire extinguishing appliance appropriate to the corresponding dangerous substance.
3. Indicate "No Fire" and name of material, quantity and grade of danger on the outer surface of container.
4. Prohibit combined transportation with hazardous materials or high pressure gas that fall under Fire Law Class 1 and 6.
5. For surface transportation, limit the stack height no higher than 3 meters.

SECTION-15 REGULATORY INFORMATION

- | | |
|---|---|
| 1. Labor Safety Hygiene Act | : Hazardous (Flammable), Subject to reporting |
| 2. Regulation on Prevention for Organic Solvent Poisoning | : N/A |
| 3. Road Traffic Law | : Dangerous, Explosive Liquid |
| 4. Fire Law | : Hazardous, Class 4 Petroleum 2
(Un-water-miscible) |
| 5. Regulation on Disposal and Cleaning of Wastes | : Subject to the regulation of industrial wastes |
| 6. Pollutant Release and Transfer Register | : No. 63 Xylene 1.1 % (as a component of Kerosine) |

SECTION-16 REFERENCE INFORMATION

1. Guidance for Making MSDS (Japan Chemical Industry Association)
 2. Data Book on Dangerous Substances (The Fire Defense Agency 1993. 1)
 3. Guidance for Making Petrochemical Product Safety Data Sheet (Federal Association of Petrochemical 1993. 12)
 4. IARC Monographs on the Evaluation of Carcinogenic Risk to Humans : Vol. 45
 5. Chemical Substances Safety Data Sheet (JIS Z 7250:2000)
-

The information presented in this Material Safety Data Sheet is intended to provide useful information for users to secure safety handling and processing of hazardous chemicals, and is not intended to provide any warranty for safety and nor to guarantee any particular property. Users should make their own investigations to determine the suitability of the information or products for their particular purpose. Nothing contained here in is intended as permission, inducement or recommendation to violate any laws.

DO NOT COPY