
SECTION 1: CHEMICAL PRODUCT AND SUPPLIER'S IDENTIFICATION

Company: Wurth North America
4250 Golf Acres Drive
Charlotte, NC 28208, USA

PRO[™]

Emergency Contact Number: 800-424-9300 (CHEMTREC)
Information Telephone Number: 704-394-2338 x2237

Product Name : PRO-4019

Recommended Uses: DRY LUBRICANT

SECTION 2: HAZARDS IDENTIFICATION

Classification:

Skin Irritation - Category 2
Eye Irritation - Category
2A Aerosols Category 1

Pictograms:



Signal Word:

Danger

Hazardous Statements - Physical:

Extremely flammable aerosol
Pressurized container: May burst if heated

Hazardous Statements - Health:

Causes serious eye irritation
Causes skin irritation

Precautionary Statements - General:

If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.

Precautionary Statements - Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements - Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

IF ON SKIN: Wash with plenty of water.

For specific treatment see section 4.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing. And wash it before reuse.

Precautionary Statements - Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary Statements - Disposal:

No precautionary statement available.

Acute toxicity of 1.8% of the mixture is unknown

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

| CAS | Chemical Name | % by Weight |
|--------------|---------------------------------------|-------------|
| 0068476-86-8 | Petroleum gases, liquefied, sweetened | 35% - 57% |
| 0070024-92-9 | Alkanes, C7-8-iso- | 27% - 44% |
| 0000064-17-5 | ETHYL ALCOHOL | 6% - 12% |
| NA-ERAEnviro | Non Hazardous Volatile | 1.0% - 2.2% |

SECTION 4: FIRST-AID MEASURES**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.
Eliminate all ignition sources if safe to do so.

Skin Contact:

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before re-use.
If exposed or concerned: Get medical advice/attention.

Eye Contact:

Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for a duration of 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

Ingestion:

Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. If vomiting occurs naturally, lie on your side, in the recovery position. Do not give anything.

SECTION 5: FIRE-FIGHTING MEASURES**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.
Do not direct a solid stream of water or foam into hot, burning pools this may results in frothing and increase fire intensity.

Unsuitable Extinguishing Media:

Not available.

Specific Hazards in Case of Fire:

Contents under pressure. Keep away from ignition sources and open flames. Exposure of containers to extreme heat and flames can

cause them to rupture often with violent force. Product is highly flammable and forms explosive mixtures with air, oxygen, and all oxidizing agents. Gas leaks or liquid spills readily form flammable mixtures at temperatures below ambient. Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back. Material can accumulate static charges which may cause an incendiary electrical discharge.

During a fire, irritating and highly toxic gases may be generated during combustion or decomposition. High temperatures can cause sealed containers to rupture due to a build up of internal pressures. Cool with water.

DO NOT cut, drill, grind, or weld near full, partially full, or empty product containers.

Container could potentially burst or be punctured upon mechanical impact, releasing flammable vapors.

Fire-Fighting Procedures:

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Special Protective Actions:

Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Procedure:

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area. Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

Recommended Equipment:

Positive pressure, full-face piece self-contained breathing apparatus (SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

Personal Precautions:

Avoid breathing vapor. Avoid contact with skin, eye or clothing. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

Environmental Precautions:

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

Methods and Materials for Containment and Cleaning Up:

Cover spills with inert absorbent and place in closed chemical waste containers.

SECTION 7: HANDLING AND STORAGE

General:

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

Ventilation Requirements:

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

Storage Room Requirements:

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where

this product is used and stored.

Do not cut, drill, grind, weld or perform similar operations on or near containers. Do not pressurize containers to empty them.

Store at temperatures below 120°F.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

Skin Protection:

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker, a respiratory protection program that meets or is equivalent to OSHA 29 CFR 1910.134 and ANSI Z88.2 should be followed. Check with respiratory protective equipment suppliers.

Appropriate Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

| Chemical Name | OSHA TWA (ppm) | OSHA TWA (mg/m) | OSHA STEL (ppm) | OSHA STEL (mg/m) | OSHA-Tables - | OSHA Carcinog | OSHA Skin designation | NIOSH TWA (ppm) | NIOSH TWA (mg/m) | NIOSH STEL (ppm) | NIOSH STEL (mg/m) | NIOSH Carcinog |
|-----------------------------|----------------|-----------------|-----------------|------------------|---------------|---------------|-----------------------|-----------------|------------------|------------------|-------------------|----------------|
| ETHYL ALCOHOL | 1000 | 1900 | | | 1 | | | 1000 | 1900 | | | |
| Petroleum gases, liquefied, | 500 | 2000 | | | 1 | | | | | | | |

| Chemical Name | ACGIH TWA | ACGIH TWA (mg/m) | ACGIH STEL (ppm) | ACGIH STEL (mg/m) |
|-----------------------------|-----------|------------------|------------------|-------------------|
| ETHYL ALCOHOL | | | 1000 | |
| Petroleum gases, liquefied, | | | | |

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

| | |
|------------------|--------------------|
| Density | 5.17457 lb/gal |
| Density VOC | 3.11509 lb/gal |
| % VOC | 60.20000% |
| VOC Actual | 3.11509 lb/gal |
| VOC Actual | 373.28160 g/l |
| Appearance | N.A. |
| Odor Threshold | N.A. |
| Odor Description | N.A. pH |
| N.A. | Flammability |
| N/A | Water Solubility |
| N.A. | Flash Point Symbol |

| | | |
|----------------------------|-----------|-----------|
| N.A. | Flash | Point |
| N.A. | Viscosity | N.A. |
| Lower Explosion Level | | N.A. |
| Upper Explosion Level | | N.A. |
| Vapor Pressure | | N.A. |
| Vapor Density | | N.A. |
| Freezing Point | | N.A. |
| Melting Point | | N.A. Low |
| Boiling Point | | N.A. High |
| Boiling Point | | N.A. Auto |
| Ignition Temp | | N.A. |
| Evaporation Rate | | N.A. VOC |
| Composite Partial Pressure | | N.A. |

SECTION 10: STABILITY AND REACTIVITY

Stability:

Material is stable at standard temperature and pressure.

Conditions to Avoid:

Keep away from direct sunlight and other sources of ignition.
Dropping containers may cause bursting.

Hazardous Reactions/Polymerization:

Will not occur

Incompatible Materials:

Avoid strong oxidizers, reducers, acids, and alkalis.

Hazardous Decomposition Products:

No data available.

SECTION 11: TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation:

Prolonged or repeated contact with this product may dry and/or defat the skin. This product may be harmful if it is absorbed through the skin.

Causes skin irritation

Serious Eye Damage/Irritation:

Eye contact may lead to permanent damage if not treated promptly.

Liquid or vapors may irritate the eyes.

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Eye contact may lead to permanent damage if not treated promptly.

Causes serious eye irritation

Respiratory/Skin Sensitization:

No Data Available

Germ Cell Mutagenicity:

No Data Available

Carcinogenicity:

No Data Available

Reproductive Toxicity:

No Data Available

Specific Target Organ Toxicity - Single Exposure:

No Data Available

Specific Target Organ Toxicity - Repeated Exposure:

Prolonged exposure may cause damage to her central nervous system, lungs, skin and eyes.

Aspiration Hazard:

No Data Available

Acute Toxicity:

If inhaled, may cause dizziness, nausea, upper respiratory irritation, drowsiness, mental depression or narcosis, difficulty in breathing, irregular heart beats.

0000064-17-5 ETHYL ALCOHOL

LC50 (mouse): Approximately 21000 ppm (4-hour exposure); cited as 39 g/m3 (4-hour exposure) (1, unconfirmed) LD50 (oral, rat): 7060 mg/kg (41); 10600 mg/kg (41); 13660 mg/kg (37)
LD50 (oral, mouse): 3450 mg/kg (1, unconfirmed) LD50 (oral, guinea pig): 5560 mg/kg (37)

Potential Health Effects - Miscellaneous

0000064-17-5 ETHYL ALCOHOL

The following medical conditions may be aggravated by exposure: liver disease. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in animals demonstrate reproductive toxicity. Ingestion may cause any of the following: stupor (central nervous system depression), gastrointestinal irritation. If absorbed through the skin, may be: harmful.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bio-accumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal:

Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.

Empty Containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: TRANSPORT INFORMATION

U.S. DOT Information:

Ground Transportation: (Continental United States, Canada & Mexico): Limited Quantity

IMDG Information:

Shipping Name: Aerosols, flammable
UN/NA #: 1950
Hazard Class: 2.1
Required Placard: Limited Quantity
Marine Pollutant: No data available

IATA Information:

We do NOT recommend this product to be shipped via air. It would need to be repacked by an authorized packing company and the DG would have to be completed by a licensed hazardous material shipping company.

SECTION 15: REGULATORY INFORMATION

| CAS | Chemical Name | % By Weight | Regulation List |
|--------------|---------------------------------------|-------------|------------------|
| 0068476-86-8 | Petroleum gases, liquefied, sweetened | 35% - 57% | SARA312,VOC,TSCA |
| 0070024-92-9 | Alkanes, C7-8-iso- | 27% - 44% | SARA312,TSCA |
| 0000064-17-5 | ETHYL ALCOHOL | 6% - 12% | SARA312,VOC,TSCA |
| NA-ERAEnviro | Non Hazardous Volatile | 1.0% - 2.3% | SARA312 |

SECTION 16: OTHER INFORMATION

Date Issued: 7/7/2015 VER Primary

Glossary:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG- Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL- Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ - Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94-469; TWA - Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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