

## MATERIAL SAFETY DATA SHEET

MECHANIC'S PRIDE 0W-20

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** MECHANIC'S PRIDE 0W-20

**SYNONYMS:** Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant

**PRODUCT CODE:** 383

**PRODUCT USE:** Engine Oil

**MANUFACTURER'S NAME:** RelaDyne

**ADDRESS:** 9395 Kenwood Rd, Suite 104  
Blue Ash, OH 45242

**EMERGENCY TELEPHONE NUMBER:** *These numbers are for emergency use only.  
If you desire non-emergency product information,  
please call phone number listed below.*

**UNITED STATES:** 1 800 786-2803

**CUSTOMER SERVICE:** 800-786-2803

**MSDS FORM NUMBER:** 383

### SECTION 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### APPEARANCE

Amber fluid, petroleum odor

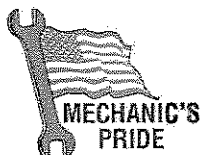
##### CAUTION!

##### HEALTH HAZARDS

May be harmful if swallowed.  
May irritate eyes and skin.

#### POTENTIAL HEALTH EFFECTS

**INHALATION (BREATHING):** This product is not likely to present an inhalation hazard at normal temperatures and pressures. However, when aerosolizing, misting, or heating of this product, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

**EYES:** May cause irritation.

**SKIN:** May cause irritation. Not likely to be absorbed through the skin in harmful amounts.

**INGESTION (SWALLOWING):** May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Individuals with pre-existing respiratory tract (nose, throat, and lungs) eye and/or skin disorders may have increased susceptibility to the effects of exposure.

**CHRONIC:** Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).

**POTENTIAL ENVIRONMENTAL EFFECTS:** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Wt. Percent | Component                                       | Synonym                          | CAS #       |
|-------------|---|----------------------------------|-------------|
| 0 - 80      | Hydrotreated Distillate, Heavy paraffin. C20-50 | Not Available                    | 64742-54-7  |
| 0 - 80      | Hydrotreated Distillate, Light paraffin. C15-30 | Not Available                    | 64742-55-8  |
| 0 - 6       | Lubricating oils, petroleum, hydrotreated spent | Hydrotreated paraffinic base oil | 64742-58-1  |
| 2 - 6       | Mineral Oil                                     | Not Available                    | Mixture     |
| 0.3 - 0.9   | Zinc dialky dithiophosphate                     | Not Available                    | Proprietary |

#### Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Oil mist, mineral (8012-95-1).

### SECTION 4: FIRST AID MEASURES

**INHALATION (BREATHING):** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

- EYE:** If irritation or redness from exposure to vapor develops, move away from exposure into fresh air. Upon contact, immediately flush eyes with plenty of lukewarm water, holding eyelids apart, for 15 minutes. Get medical attention.
- SKIN:** Remove affected clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain develops or persists. If product is injected under pressure into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, a physician should immediately evaluate the individual as a medical emergency.
- INGESTION:  
(SWALLOWING)** Do NOT induce vomiting. Immediately get medical attention. If spontaneous vomiting occurs, keep head below hips to avoid breathing the product into the lungs. Never give anything to an unconscious person by the mouth.
- NOTE TO  
PHYSICIANS:** Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

### SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT (METHOD USED):** 329°F (165°C) (minimum) (COC)

**FLAMMABLE LIMITS IN AIR:** Lower: Not Available Upper: Not Available

**AUTOIGNITION  
TEMPERATURE:** Not available

**HAZARDOUS COMBUSTION  
PRODUCTS:** Decomposition and combustion materials may be toxic. Burning may produce sulfur oxides, aldehydes, ketones, carbon monoxide and unidentified organic compounds.

**CONDITIONS OF  
FLAMMABILITY:** Sparks or flame. Products may burn, but does not ignite readily.

**EXTINGUISHING MEDIA:** Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.

**HAZARD RATING**  
0= LEAST  
1= SLIGHT  
2= MODERATE  
3= HIGH  
4= EXTREME

**NFPA 704 HAZARD IDENTIFICATION**  
HEALTH HAZARD (BLUE) 1  
FIRE HAZARD (RED) 1  
REACTIVITY (YELLOW) 0  
SPECIFIC HAZARD (WHITE)



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

**FIRE FIGHTING INSTRUCTIONS:** Keep storage containers cool with water spray. A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

**FIRE AND EXPLOSION HAZARDS:** Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Products are not sensitive to mechanical impact or static discharge.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled product. Stop leak if you can do it without risk. Wear protective equipment and provide engineering controls as specified in **Section 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean spark-proof tool into a sealable container for disposal. Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

## SECTION 7: HANDLING AND STORAGE

**HANDLING:** Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing and shoes.

**STATIC ACCUMULATOR:** This product contains material known to be a static accumulator.

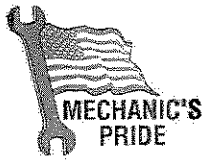
**SHIPPING AND STORING:** Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain residue and can be dangerous.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES

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## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

#### Component Exposure Limits

##### Hydrotreated Distillate, Heavy Paraffin. C20-50

ACGIH: 5 mg/m<sup>3</sup> TWA (as Oil Mist, if generated)  
10 mg/m<sup>3</sup> STEL (as Oil Mist, if generated)  
OSHA: 5 mg/m<sup>3</sup> TWA (as Oil Mist, if generated)

##### Hydrotreated Distillate, Heavy Paraffin. C15-30

ACGIH: 5 mg/m<sup>3</sup> TWA (as Oil Mist, if generated)  
10 mg/m<sup>3</sup> STEL (as Oil Mist, if generated)  
OSHA: 5 mg/m<sup>3</sup> TWA (as Oil Mist, if generated)

##### Lubricating oils, petroleum, hydrotreated spend (64742-58-1)

ACGIH: 5mg/m<sup>3</sup> TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
10 mg/m<sup>3</sup> STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
OSHA Final: 5 mg/m<sup>3</sup> TWA (related to Oil mist, mineral)  
OSHA Vacated: 5 mg/m<sup>3</sup> TWA (related to Oil mist, mineral)  
NIOSH: 5 mg/m<sup>3</sup> TWA (related to Oil mist, mineral)  
10 mg/m<sup>3</sup> STEL (related to Oil mist, mineral)

##### Mineral Oil

ACGIH: 5mg/m<sup>3</sup> TWA (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
10 mg/m<sup>3</sup> STEL (sampled by method that does not collect vapor) (related to Oil mist, mineral)  
OSHA Final: 5 mg/m<sup>3</sup> TWA (related to Oil mist, mineral)

#### ENGINEERING CONTROLS:

Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

##### RESPIRATORY PROTECTION:

No respiratory protection is normally required. Use NIOSH-certified P- or R-series particulate filter and organic vapor cartridges when concentration of vapor or mist exceeds applicable exposure limits. Protection provided by air purifying respirators is limited. Do not use N-rated respirators. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

**EYE PROTECTION:** Where eye contact is likely, wear safety glasses; contact lens use is not recommended.

##### SKIN PROTECTION:

Where skin contact is likely, wear neoprene, nitrile or equivalent protective gloves; use of natural rubber or equivalent gloves is not recommended. When product is heated and skin contact is likely, wear heat-insulating gloves, boots, and other protective clothing.



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.

#### PERSONAL HYGIENE:

Use good personal hygiene. Wash thoroughly with soap and water after handling product and before eating, drinking, or using tobacco products. Clean affected clothing, shoes, and protective equipment before reuse. Discard leather articles, such as shoes, saturated with these products.

#### OTHER PROTECTIVE EQUIPMENT:

Where spills and splashes are likely, facilities storing or using these products should be equipped with emergency eyewash and shower, both equipped with clean water, in the immediate work area.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### PHYSICAL STATE, APPEARANCE

Amber liquid

#### ODOR:

Petroleum odor

#### ODOR THRESHOLD:

Not available

#### MOLECULAR WEIGHT:

Not applicable

#### SPECIFIC GRAVITY:

0.85 (Estimated) (water=1) (approximately)

#### VAPOR DENSITY:

>1 (Air = 1)

#### VAPOR PRESSURE:

less than 0.1 mm Hg at 68°F (20°C)

#### RELATIVE DENSITY:

0.853 g/cm<sup>3</sup> at 60°F (15.5°C)

#### INITIAL BOILING POINT:

High

#### BOILING RANGE

Not available

#### FREEZING/MELTING POINT:

Not available

#### pH:

Not applicable

#### EVAPORATION RATE:

Not available

#### SOLUBILITY IN WATER:

Insoluble

#### FLASH POINT:

329°F (165°C) (minimum) Cleveland Open Cup

#### FLAMMABILITY:

Not available

#### FLAMMABLE LIMITS IN AIR:

**LOWER:** Not available      **UPPER:** Not available

#### AUTOIGNITION TEMPERATURE:

Not available



## MATERIAL SAFETY DATA SHEET

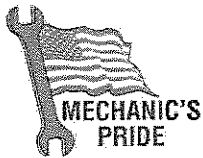
MECHANIC'S PRIDE 0W-20

### SECTION 10: STABILITY AND REACTIVITY

- STABILITY:** Stable under normal temperatures and pressures. Avoid sparks, or flame.
- INCOMPATIBILITY:** Avoid oxidizing agents.
- REACTIVITY:** Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
- HAZARDOUS DECOMPOSITION PRODUCTS:** None under normal temperatures and pressures. Also see **Section 5: HAZARDOUS COMBUSTION PRODUCTS.**

### SECTION 11: TOXICOLOGICAL INFORMATION

- ROUTES OF EXPOSURE:** Skin, Eyes, Ingestion, and Inhalation.
- ACUTE EFFECTS:** May be harmful if swallowed. May irritate eyes and skin. May cause Throat irritation, nausea, vomiting and diarrhea. Aspiration hazard: breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.
- REPEATED DOSE EFFECTS:** Prolonged or repeated inhalation of oil mist may cause oil pneumonia, lung tissue inflammation, and/or fibrous tissue formation. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball (conjunctivitis). Prolonged or repeated skin contact may cause drying, cracking, redness, itching, and/or swelling (dermatitis).
- SENSITIZATION:** Based on best current information, there is no known human sensitization associated with this product.
- MUTAGENICITY:** Experimental evidence suggests that this product does not cause mutagenesis.
- CARCINOGENICITY** Based on best current information, there is no known carcinogenicity as regulated by OSHA; as categorized by ACGIH A1 or A2 substances; as categorized by IARC Group 1 Group 2A, or Group 2B agents as either known carcinogens or substances for which there is limited evidence of



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals.

#### REPRODUCTIVE TOXICITY:

Based on best current information, there is no known reproductive toxicity associated with this product.

#### TERATOGENICITY:

Based on best current information, there is no known teratogenicity associated with this product.

#### NEUROTOXICITY:

High vapor / aerosol concentrations (attainable only at elevated temperatures) may cause central nervous system effects such as dizziness, drowsiness or headaches.

#### TOXICITY DATA:

##### Component Analysis – LD50/LC50

##### **Hydrotreated Distillate, Heavy Paraffin. C20-50**

Oral LD50 Rat >15g/kg; >5 g/kg  
Dermal LD50 Rabbit >5 g/kg  
Inhalation LC50 – No data

##### **Hydrotreated Distillate, Heavy Paraffin. C15-30**

Oral LD50 Rat >5 g/kg  
Dermal LD50 Rabbit >5 g/kg  
Inhalation LC50 – No data

##### **Lubricating oils, petroleum, hydrotreated spent (64742-58-1)**

Oral LD50 Rat >2000 mg/kg  
Dermal LD50 Rat >2000 mg/kg  
Dermal LD50 Rabbit >4480 mg/kg

##### **Synthetic Base Stock**

Inhalation Toxicity LC50 Rat >5000 mg/kg  
Inhalation Irritation Rat – No end point data  
Ingestion Toxicity LD50 Rat >5000 mg/kg  
Skin Toxicity LD50 Rabbit >5000 mg/kg

##### **Mineral Oil**

Dermal LD50 Rabbit >5000 mg/kg  
Oral LD50 Rat >5000 mg/kg

##### **Zinc dialkyl dithiophosphate (68649-42-3)**

Dermal LD50 Rat >2000 mg/kg  
Oral LD50 Rat >2000 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

**ECOTOXICITY:** Material expected to be harmful to aquatic organisms. May cause long





## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

term adverse effects in the aquatic environment.

#### Component Analysis – Ecotoxicity – Aquatic Toxicity

Lubricating oils, petroleum, hydrotreated spent (64742-58-1)

##### Test & Species

96 Hr LC50 Brachydanio rerio – 79.6 mg/L (conditions: semi-static)

96 Hr LC50 Pimephales promelas – 3.2 mg/L (condition: semi-static)

**PERSISTENCE/  
DEGRADABILITY:** Not readily biodegradable.

**BIOACCUMULATIVE  
POTENTIAL:** No information available for the product.

**MOBILITY IN  
ENVIRONMENTAL  
MEDIA:** Base oil component(s) – Low solubility and floats; expected to migrate from water to the land.

**OTHER ADVERSE  
EFFECTS:** Not available.

**OCTANOL/WATER  
PARTITION  
COEFFICIENT:** Not available.

**VOLATILE ORGANIC  
COMPOUNDS:** Negligible

**AQUATIC RELEASE:** Advise authorities if product has entered or may enter watercourses or sewer drains.

### SECTION 13: DISPOSAL CONSIDERATIONS

**DISPOSAL:** Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste.

**USEPA WASTE  
CODES:** This product, if discarded, is not expected to be a characteristic or listed hazardous waste. If recycled in the USA, it must be managed in accordance with 40 CFR Part 279. Processing, use, or contamination by user may change the waste code(s) applicable to the disposal of these products.

### SECTION 14: TRANSPORT INFORMATION

**LAND (DOT):** Not regulated as a hazardous material for Land Transport.



## MATERIAL SAFETY DATA SHEET

**MECHANIC'S PRIDE 0W-20**  
(Shipping Name)

**LAND (TDG):** Not regulated as a dangerous good for Land Transport.  
(Shipping Name)

**EMERGENCY RESPONSE** Not applicable  
**GUIDE NUMBER:** Reference *North American Emergency Response Guidebook*.

### SECTION 15: REGULATORY INFORMATION

#### USA REGULATIONS

**SARA SECTIONS 302, 304** Based on the ingredients listed in **SECTION 3**, this product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.

**SARA SECTIONS 311 AND 312 REPORTING** This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of Superfund Amendments and Reauthorization Act of 1986 (SARA):

|                                     |     |
|-------------------------------------|-----|
| Immediate (Acute) Health Hazard     | Yes |
| Delayed (Chronic) Health Hazard     | No  |
| Physical Fire                       | No  |
| Physical Sudden Release of Pressure | No  |
| Physical Reactive                   | No  |

**SARA SECTION 313** This product contains the follow chemical(s) subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

Zinc dialkyl dithiophosphate 0.3 – 0.9

**CERCLA** Based on the ingredients listed in **SECTION 3**, this product does not contain any "hazardous substances" listed pursuant to the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

#### The Following Ingredients are cited as follows:

| Chemical Name                | CAS Number | REGULATORY LIST CITATION(S) |
|------------------------------|------------|-----------------------------|
| Zinc dialkyl dithiophosphate | 68649-42-3 | MI 293<br>NJ RTK            |

**TSCA:** All components listed in **SECTION 3** are listed on, or are exempted from the requirements.

### SECTION 16: OTHER INFORMATION



## MATERIAL SAFETY DATA SHEET

### MECHANIC'S PRIDE 0W-20

**DATE ISSUED:** April 13, 2010

**SUPERSEDES:** September 21, 2009

**REVISION NO.** 3

**REVISION INFORMATION:** MSDS update adding additional Globally Harmonized System (GHS) requirements.

**LABEL/OTHER INFORMATION:** Not available.

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**MSDS FORM NUMBER: 383**

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-END OF DOCUMENT-