

SAFETY DATA SHEET



SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

ArrowRP 107-LM

Rust Preventive

Chem Arrow Corporation

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SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

Flammable liquid	3	Flash point $\geq 23^{\circ}\text{C}$ and $\leq 60^{\circ}\text{C}$ (140°F)
Inhalation Toxicity	Acute Tox. 4	Gases >2500 and ≤ 5000 ppm, Vapors >10 and ≤ 20 mg/l, Dusts & mists >1 and ≤ 5 mg/l

GHS Hazards

H226	Flammable liquid and vapour
H332	Harmful if inhaled

GHS Precautions

P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P233	Keep container tightly closed
P240	Ground/bond container and receiving equipment
P241	Use explosion-proof electrical/ventilating/light/equipment
P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P271	Use only outdoors or in a well-ventilated area
P280	Wear protective gloves/protective clothing/eye protection/face protection
P312	Call a POISON CENTER or doctor/physician if you feel unwell
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P370+P378

In case of fire: Use dry chemical, foam, carbon dioxide (CO₂) for extinction

P403+P235

Store in a well ventilated place. Keep cool

P501

Dispose of contents/container based on Local, State and Federal Regulations

Warning



SECTION 3: COMPOSITION INFORMATION ON CLASSIFIED INGREDIENTS

Component/Chemical Name	CAS No.	Weight Concentration %
Residual oils, petroleum, solvent-dewaxed	64742-62-7	30.00% - 40.00%
Petrolatum	8009-03-8	20.00% - 30.00%
Distillates, petroleum, hydrotreated light naphthenic	64742-53-6	5.00% - 10.00%
Naphtha, petroleum, heavy alkylate	64741-65-7	5.00% - 10.00%
Distillates, petroleum, solvent-refined heavy naphthenic	64741-96-4	5.00% - 10.00%

The specific identity and exact concentration of any included proprietary ingredient is withheld as a trade secret.

SECTION 4: FIRST AID MEASURES

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Eye Contact: If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

Skin Contact: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Notes to physician: Hazards: This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting. Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

Treatment: No information available.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Suitable extinguishing media: Dry chemical, Foam, Carbon dioxide (CO₂).

Haz Combustion Products: May form: Carbon dioxide and carbon monoxide, Hydrocarbons.

Fire Fighting Instructions: If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

Flammability Class for Flammable Liquids
Combustible Liquid Class II

SECTION 6: ACCIDENTAL RELEASE MEASURES

Protective Measures: For personal protection see section 8. Eliminate all ignition sources (flares, fumes including pilot lights, electrical sparks) Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed

Spill Management: Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb liquid on vermiculite, floor absorbent or other absorbent material. Transfer contaminated absorbent, soil and other materials to containers for disposal.

Reporting: Follow Local, State and Federal authority's regulations for reporting spills.

SECTION 7: HANDLING AND STORAGE

Container Warnings: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77. Hydrocarbon solvents are basically non-conductors of electricity and can become electrostatically charged during mixing, filtering or pumping at high flow rates. If this charge reaches a sufficiently high level, sparks can form that may ignite the vapors of flammable liquids. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

Storage Conditions: Store in dry indoor area, preferably under mild temperature conditions. Store in original packaging. Keep container tightly closed when not in use. Avoid freezing.

Storage: Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
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Residual oils, petroleum, solvent-dewaxed 64742-62-7	PEL/TWA - 5 mg/m3 (8 hrs)	TLV/TWA - 5 mg/m3 (8 hrs) Form: Inhalable fraction	NIOSH REL/TWA - 5 mg/m3 (10 hrs) Form: Mist NIOSH REL/STEL - 10 mg/m3 (15 min) Form: Mist
Petrolatum 8009-03-8	None reported	None reported	None reported
Distillates, petroleum, hydrotreated light naphthenic 64742-53-6	PEL-TWA (8 hour) 5mg/m3 as oil mist	TLV-TWA (8 hour) 5mg/m3 as oil mist	None reported
Naphtha, petroleum, heavy alkylate 64741-65-7	Not established	TWA 100 ppm TWA 525 mg/m3	NIOSH TWA 100 ppm TWA 525 mg/m3
Distillates, petroleum, solvent-refined heavy naphthenic 64741-96-4	None reported	None reported	None reported

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

General Considerations: These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Eye/Face Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Skin Protection: Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Attention: The data below are typical values and do not constitute a specification.

Appearance: Amber

Physical State: Thick liquid

Odor: Characteristic

Odor Threshold: Unknown

Vapor Pressure: Not determined

Vapor Density: Not determined

pH: N/A

Specific Gravity: 0.87

API Gravity at 60 F: 30.5 +/- 3

Viscosity SUS @ 100 F: Not determined

Freezing Point: N/A

Solubility: Oil

Boiling Range: 172°C
Flash Point: 126 F, 52 C
Evaporation Rate: N/A
Flammability: Unknown
Explosive Limits: 0%
Partition Coefficient (n-octanol/water): Unknown
Autoignition Temperature: 405°C
Decomposition Temperature: Unknown
VOC (Concentrate) Grams/Liter: 83.79

SECTION 10: STABILITY AND REACTIVITY

Incompatibility With Other Materials: Avoid contact with: Strong oxidizing agents.

Conditions to Avoid: Heat, flames and sparks.

Hazardous Decomposition Products: Carbon dioxide and carbon monoxide, various hydrocarbons.

Hazardous Reactions: Product will not undergo hazardous polymerization.

Thermal Decomposition: No data

SECTION 11: TOXICOLOGICAL INFORMATION

Mixture Toxicity

Inhalation Toxicity LC50: 6mg/L

Component Toxicity (if applicable)

8009-03-8 Petrolatum
Dermal LD50: 3,600 mg/kg (Rabbit)

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing).

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			No data found

SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:

Acute and Prolonged Toxicity to Fish: No data

Acute Toxicity to Aquatic Invertebrates: No data

Environmental Fate and Pathways: No data

Component Ecotoxicity

Residual oils, petroleum, solvent-dewaxed	96 Hr LC50 <i>Oncorhynchus mykiss</i> : >5000 mg/L 48 Hr EC50 <i>Daphnia magna</i> : >1000 mg/L
Distillates, petroleum, hydrotreated light naphthenic	96 Hr LC50 <i>Oncorhynchus mykiss</i> : >5000 mg/L 48 Hr EC50 <i>Daphnia magna</i> : >1000 mg/L
Naphtha, petroleum, heavy alkylate	48 Hr LC50 <i>Mysidopsis bahia</i> : 2 mg/L 72 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 30000 mg/L

Distillates, petroleum, solvent-
refined heavy naphthenic

96 Hr LC50 Oncorhynchus mykiss: >5000 mg/L
48 Hr EC50 Daphnia magna: >1000 mg/L

SECTION 13: DISPOSAL CONSIDERATION

Follow Local, State and Federal regulations regarding disposal.

SECTION 14: TRANSPORT INFORMATION

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Combustible liquid, n.o.s. (petroleum distillates). Note: Not regulated for ground transport in containers <120 gallons.	1268	III	3
IMDG	Flammable liquids, NOS	1268	III	3
IATA	Flammable liquids, NOS	1268	III	3

SECTION 15: REGULATORY INFORMATION

Regulatory lists searched:

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
US	California Prop 65	No
CA	Canada DSL	No
US	CERCLA	No
CN	China Inventory (IECSC)	No
EU	EINECS	No
MY	Malaysia Inventory (EHS Register)	No
US	SARA 311/312	No
US	TSCA	No

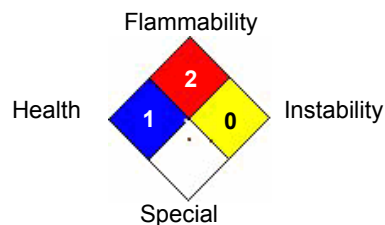
SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	<input type="text" value="1"/>
FLAMMABILITY	<input type="text" value="2"/>
PHYSICAL HAZARD	<input type="text" value="0"/>
PERSONAL PROTECTION	<input type="text"/>

HMIS & NFPA Hazard Rating
Legend
* = Chronic Health Hazard
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

National Fire Protection Association (NFPA)



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The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

