



**NORTHSTAR**  
**CHEMICAL CORPORATION**  
CHEMICALS FOR THE METAL PROCESSING INDUSTRY

MARK3

SAFETY DATA SHEET

### 1. Product and Company Identification

<b>Product ID</b>	MARK3	
<b>Recommended Uses</b>	Firearm Lubricant/Corrosion Inhibitor	
<b>Manufacturer</b>	Northstar Chemical Corporation P.O. Box 144 Keego Harbor, MI 48320 United States  (P) 248-875-3396 www.northstarchem.com	
<b>Emergency Telephone</b>	Chemtrec United States	800-424-9300
	Chemtrec International	800-483-7616

### 2. Hazards Identification

**Classification:**

Aspiration Hazard - Category 1  
Skin Irritation - Category 2

**Pictograms:**



**Signal Word:**

Danger

**Hazardous Statements - Health:**

H304 - May be fatal if swallowed and enters airways  
H315 - May cause skin irritation

**Precautionary Statements - General:**

P101 - If medical advice is needed, have product container or label at hand.  
P102 - Keep out of reach of children.  
P103 - Read label before use.

**Precautionary Statements - Prevention:**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P233 - Keep container tightly closed.
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P273 - Avoid release to the environment.

**Precautionary Statements - Response:**

- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 - Do NOT induce vomiting.
- P302 + P352 - IF ON SKIN: Wash with plenty of water.
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P362 + P364 - Take off contaminated clothing. And wash it before reuse.
- P391 - Collect spillage.

**Precautionary Statements - Storage:**

- P403 + P405 - Store in a well-ventilated place. Store locked up.

**Precautionary Statements - Disposal:**

- P501 - Dispose of contents/container to disposal recycling center. 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.

**EMERGENCY OVERVIEW**

**PHYSICAL APPEARANCE:** Transparent straw to amber liquid

**IMMEDIATE CONCERNS:** CAUTION: May cause eye and skin irritation

**POTENTIAL HEALTH EFFECTS**

**EYES:** Avoid eye contact. This product is minimally irritating to the eyes upon direct contact.

**SKIN:** Moderate irritation and discomfort. Defatting of skin and redness are possible. Toxic systemic effects from absorption are expected to be minor.

**INGESTION:** Gastrointestinal tract irritation and/or discomfort is possible.

**INHALATION:** High vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects. Extreme aspiration into lungs may cause pneumonia or death.

**3. Composition/Information on Ingredients**

Chemical Name	CAS	Percentage (by wt.)
Hydrotreated Light Distillate	64742-47-8	52-100%
Corrosion Inhibitor (Non-Hazardous)	Confidential	13-27%

**4. First Aid Measures**

**Inhalation:**

Fresh air should alleviate any respiratory discomfort. If breathing difficulties develop or persist, get medical attention.

**Skin Contact:**

Rinse/wash with lukewarm, gently flowing water and mild soap for 5 minutes or until product is removed. If skin irritation occurs or you feel unwell: Get medical advice/attention.

**Eye Contact:**

If irritation occurs, cautiously rinse eyes with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. If eye irritation persists: Get medical advice/attention.

**Ingestion:**

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

Never give anything by mouth to an unconscious or convulsing victim. Keep person warm and quiet.

## 5. Fire-fighting Measures

**Suitable Extinguishing Media:**

Water spray, chemical-type foam

**Hazardous Combustion Products:**

Oxides of carbon and noxious fumes

**Explosion Hazards**

None expected

**Fire-fighting Procedures:**

As in any fire, wear self-contained breathing apparatus and full protective gear.

**Fire-fighting Equipment**

Respiratory and eye protection are required for fire-fighting personnel. Full protective equipment (Bunker gear) and self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

**Hazardous Decomposition Products:**

None

## 6. Accidental Release Measures

**Small Spill:**

Absorb spill with inert material, then place in a chemical waste container.

**Large Spill:**

Contain material as described above and call the local fire or police department for immediate emergency assistance.

**Environmental Precautions:**

**Water spill:** Construct temporary dikes of dirt, sand or any appropriate readily available material to prevent spreading of the material.

**Land spill:** Use appropriate containment to avoid runoff or release to the ground/  
**Air spill:** use NIOSH/MSHA approved respirators to avoid breathing vapors.

**Personal Precautions:**

Avoid breathing vapor. Avoid contact with skin, eye or clothing.

## 7. Handling and Storage

**General:**

Do not store with oxidizing agents.  
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.

**Storage Temperature:**

Ambient

**Electrostatic Accumulation Hazard:**

When transferring this product, there is potential for the accumulation of static electricity. Consideration should be given to bonding and grounding of equipment during loading, unloading, and transfer of this product.

**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 and 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 container retain residue and may be dangerous.

## 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:**

Wear gloves, long sleeved shirt, long pants and other protective clothing as required to minimize skin contact.

Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization.

**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. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter.

**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/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1,Z2,Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH carcinogen
Hydrotreated Light Distillate	500	2000			1							

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
Hydrotreated Light Distillate				

**9. Physical and Chemical Properties**

Density	6.70976 lb/gal
% Solids By Weight	0.00000%
% VOC	0.00000%
Density VOC	0.00000 lb/gal
VOC Actual	0.00000 lb/gal
VOC Actual	0.00000 g/l
Appearance	Transparent Straw to Amber Liquid
Odor Threshold	N.A.
Odor Description	Petroleum
pH	N/A
Water Solubility	< 1%
Flammability	Flash Point at or above 200 °F
Flash Point Symbol	>
Flash Point	220 °F
Viscosity	N.A.
Lower Explosion Level	N.A.

Upper Explosion Level	N.A.
Vapor Pressure	<0.1 mmHg at (68°F)
Vapor Density	6.8 (Air=1)
Freezing Point	0 °F
Melting Point	0 °F
Low Boiling Point	465 °F
High Boiling Point	531 °F
Auto Ignition Temp	459 °F
Decomposition Pt	Not Determined
Evaporation Rate	~0.003 (n-Butyl Acetate = 1)
Coefficient Water/Oil	N.A.

## 10. Stability and Reactivity

### Stability:

Stable at ambient and operating temperatures.

### Conditions to Avoid:

Keep away from flame, heat (200°F maximum) and strong oxidizing agents.

### Hazardous Reactions/Polymerization:

No hazardous reactions under normal handling/processing

### Incompatible Materials:

Strong Oxidizers

### Hazardous Decomposition Products:

Oxides of carbon when burned.

## 11. Toxicological information

### Skin Corrosion/Irritation:

Can cause skin irritation

### Carcinogenicity:

No Data Available

### Serious Eye Damage/Irritation:

No Data Available

### Respiratory/Skin Sensitization:

No Data Available

### Germ Cell Mutagenicity:

No Data Available

### Reproductive Toxicity:

No Data Available

### Specific Target Organ Toxicity - Repeated Exposure:

No Data Available

### Aspiration Hazard:

May be fatal if swallowed and enters airways

**Acute Toxicity:**  
No Data Available

## 12. Ecological information

**Persistence and Degradability:**  
No data available.

**Bioaccumulative Potential:**  
No data available.

**Mobility in Soil:**  
No data available.

**Other Adverse Effects:**  
No data available.

## 13. Disposal considerations

**Disposal Method:** Dispose of waste at an appropriate waste disposal facility according to current applicable laws and regulations.

**For Large Spills:** Contain material and call local authorities for emergency assistance. In consultation with the appropriate authorities, determine the disposal method.

**Empty Container:** Keep containers closed when not in use. Do not reuse empty containers.

## 14. Transportation information

**U.S. DOT Information:**  
Not D.O.T. Regulated

## 15. Regulatory information

### UNITED STATES

#### SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

**FIRE:** No **PRESSURE GENERATING:** No **REACTIVITY:** No **ACUTE:** No **CHRONIC:** No

**313 REPORTABLE INGREDIENTS:** None

### TSCA (Toxic Substance Control Act)

**TSCA REGULATORY:** This material or its components are listed in the TSCA inventory.

**CALIFORNIA PROPOSITION 65:** None known.

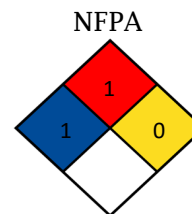
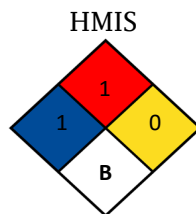
## 16. Other information

**OTHER INFORMATION:**

FOR INDUSTRIAL USE ONLY. Do not use this product without reading the process specification.

**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.



**DISCLAIMER**

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