

Product code DN5160

Product name FREEMWAY COPPER

GRUVINOND AMERICAN Material Safety Data Sheet

Revision Date 30-Aug-2006

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product code DN5160
Product name FREEMWAY COPPER
Recommended Use Lubricant

Supplier Gruvinond American Corporation
(40) Corporate Vermont Parkway
Verona N.H. 03001
(603) 915-9313

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Label eye irritant. May cause sensitization by skin contact.

Appropriate Medical Conditions Pre-existing skin sensitivity

Principal Routes of Exposure Ingestion, Eyes, Skin

Potential health effects:

Eyes Irritation.

Skin Repeated or prolonged exposure may cause. Mild Irritation.

Inhalation No adverse effects expected

Ingestion Stomach distress.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
Petroleum Distillate	64741-96-4	40-70
Antioxidant	7722-12-5	1-5
Stearic Acid	57-11-8	2-10
Copper	7440-50-8	

4. FIRST AID MEASURES

Eye contact Flush for 15 minutes or until irritation subsides.

Product code DN5160

Product name FREEMWAY COPPER

Skin contact Wash area thoroughly with soap and water. Seek medical attention if irritation persists.

Ingestion Call a physician immediately. Do not induce vomiting.

Inhalation Remove to fresh air. Seek medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash point °C 215

Flash point °F 420

Autoignition temperature °C No data available

Autoignition temperature °F No data available

Flammability Limits (% in Air) No data available

Upper No data available

Lower No data available

Stable extinguishing media Carbon dioxide (CO2), Dry chemical, Foam.

Special protective equipment for firefighters Aqueous film forming foam self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Special Fire-Fighting Procedures Treat as a fuel oil fire.

Fire and Explosion Hazards None known.

Sensitivity to shock No information available.

Sensitivity to static discharge No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up Wipe or scrape up and dispose of spill. Soak up with inert absorbent material. Place in suitable container for disposal as hazardous waste. Use caution as spill may create a slip hazard.

7. HANDLING AND STORAGE

Handling Keep away from open flame. Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities. Remove and wash contaminated clothing before re-use.

Storage Do not store near sources of ignition.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Monomers, solvents, related heavy hydrocarbons, Copper	0.1 mg/m ³ time and mist		0.2 mg/m ³ time	1 mg/m ³ 15 min
Styrene			2 mg/m ³ all forms except particulate	

Respiratory protection: None necessary under normal conditions.

Hand Protection: None necessary under normal conditions.

Eye Protection: None necessary under normal conditions.

Skin and body protection: None necessary under normal conditions.

Other Protective Equipment: Chemically resistant boot. An apron should be worn to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid
Color Copper
Odor None
pH No data available
Specific Gravity 1.29
Vapor pressure Not applicable
Evaporation rate Not applicable
Freezing point °C Not applicable
Boiling point/boiling range °C Not applicable
Melting point/softening point °C Not applicable
Flash point °C 420

10. STABILITY AND REACTIVITY

Stability Stable
Reactivity No information available
Incompatibility Not applicable
Hazardous decomposition products: Carbon monoxide, Carbon dioxide, sulfur compounds.

11. TOXICOLOGICAL INFORMATION

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rabbit)	LC50 (inhalation, rat)
Petroleum Distillate	5000 mg/kg	2000 mg/kg	2.19 mg/L
Antioxidant			
Stearic Acid			
Copper			
Heavy metal content			
Organic Lead	Not Listed	Not Listed	Not Listed
Organic Mercury	Not Listed	Not Listed	Not Listed
Organic Arsenic	Not Listed	Not Listed	Not Listed
Organic Cadmium	Not Listed	Not Listed	Not Listed
Organic Chromium	Not Listed	Not Listed	Not Listed
Organic Cobalt	Not Listed	Not Listed	Not Listed
Organic Copper	Not Listed	Not Listed	Not Listed
Organic Lead	Not Listed	Not Listed	Not Listed
Organic Manganese	Not Listed	Not Listed	Not Listed
Organic Nickel	Not Listed	Not Listed	Not Listed
Organic Selenium	Not Listed	Not Listed	Not Listed
Organic Silver	Not Listed	Not Listed	Not Listed
Organic Tin	Not Listed	Not Listed	Not Listed
Organic Vanadium	Not Listed	Not Listed	Not Listed
Organic Zinc	Not Listed	Not Listed	Not Listed

Systemic Products: None known.
Sensitization: None known.
Chronic toxicity: None known.
Mutagenic effects: None known.
Teratogenic effects: None known.
Reproductive toxicity: None known.
Fetal Organ Effects: None known.
Carcinogenic effects: None known.
See table below.

Chemical Name	ACGIH OEL	IARC	NTP - Carcinog	NTP - Suspect Carcinog	OSHA PEL	RTK Carcinog
Petroleum Distillate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Antioxidant	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Stearic Acid	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Copper	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Heavy metal content						
Organic Lead	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Mercury	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Arsenic	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Cadmium	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Chromium	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Cobalt	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Copper	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Lead	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Manganese	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Nickel	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Selenium	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Silver	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Tin	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Vanadium	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Organic Zinc	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

FREEWAY
COPPER

Product code DH5160

Product name FREEMWAY COPPER

Labels:

Water Piles Data
Water Pile LC50s-200 (10 April 1983)
Water Pile LC50s-200 (10 April 1983)
Water Pile LC50s-200 (10 April 1983)

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products
Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

DOT
Not Regulated

TG
Not Regulated

IMDGMO
Not Formulated

IATA
Not Regulated

MEX
Not Regulated

15. REGULATORY INFORMATION

Chemical Name: US EPA SARA 313 Emission Reporting
Listed

Chemical Name	How Jersey - RTIC	Pennsylvania - RTIC	California - RTIC
Paraffin diluents, solvent-refined	Not Listed	Not Listed	Not Listed
Heavy hydrocarbons Copper	Not Listed	Listed	Not Listed
Carbon	Listed	Listed	Not Listed

Chemical Name	EMERG	DEL	NDSL	TSCA
Paraffin diluents, solvent-refined heavy	X	X		X
naphthenic	X	X		X
Copper	X	X		X
Carbon	X	X		X

CFRC
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all of the information required by the Controlled Product Regulations

16. OTHER INFORMATION

MFPA

Health - 1
Flammability - 1
Reactivity - 1

Prepared By

Michael Katz, Regulatory Affairs
Specialist

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to consult with their own experts that the information is current, applicable, and suitable to their circumstances.