

APR 26 '95 11:52AM WARD017100046174
 Occupational Safety and Health Administration

OSHA No. 44-R1397

MATERIAL SAFETY DATA SHEET

MSDS # 467

2842000

Required under USDL Safety and Health Regulations for Ship Repairing,
 Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

| | | |
|--|-------------------------------------|---|
| MANUFACTURER'S NAME Bruce Products Corp., | | EMERGENCY TELEPHONE NO. 517-546-0110 |
| ADDRESS (Number, Street, City, State, and ZIP Code) 500 N. West St., Howell, MICHIGAN | | 48843 Gem Cool |
| CHEMICAL NAME AND SYNONYMS Soluble Oil | TRADE NAME AND SYNONYMS Gem Cool | |
| CHEMICAL FAMILY | FORMULA | Proprietary |

SECTION II - HAZARDOUS INGREDIENTS

| PAINTS, PRESERVATIVES, & SOLVENTS | % | TLV (Units) | ALLOYS AND METALLIC COATINGS | % | TLV (Units) |
|---|---|-------------|--|---|-------------|
| PIGMENTS | | | BASE METAL | | |
| CATALYST | | | ALLOYS | | |
| VEHICLE | | | METALLIC COATINGS | | |
| SOLVENTS | | | FILLER METAL PLUS COATING OR CORE FLUX | | |
| ADDITIVES | | | OTHERS | | |
| OTHERS | | | | | |
| HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES | | | | % | TLV (Units) |
| Non-Hazardous | | | | | |

SECTION III - PHYSICAL DATA

| | | | |
|-------------------------|----------------------------|---------------------------------------|-------|
| BOILING POINT (°F.) | >400 | SPECIFIC GRAVITY (H ₂ O=1) | 0.944 |
| VAPOR PRESSURE (mm Hg.) | | PERCENT. VOLATILE BY VOLUME (%) | 3 |
| VAPOR DENSITY (AIR=1) | | EVAPORATION RATE (Pentane=1) | <1 |
| SOLUBILITY IN WATER | emulsifies | | |
| APPEARANCE AND ODOR | dark brown oil, sweet odor | | |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | | | | |
|------------------------------------|---|------------------|-----|-----|
| FLASH POINT (Method used) | CCO; >500°F | FLAMMABLE LIMITS | Let | Uet |
| EXTINGUISHING MEDIA | CO ₂ , foam dry chemical | | | |
| SPECIAL FIRE FIGHTING PROCEDURES | use air supplied breathing apparatus in confined spaces | | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS | None | | | |

APR 26 '95 11:53AM WARD6171CJD4G174

P.3

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

Not toxic but - not established

EFFECTS OF OVEREXPOSURE

nausea, dizziness. Remove victim to fresh air.

EMERGENCY AND FIRST AID PROCEDURES

Wash skin with soapy water, consult physician.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

XX

INCOMPATABILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

CO₂, CO, H₂O, SO₂

HAZARDOUS POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

XX

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Soak up with oil-dri or flush with water.

WASTE DISPOSAL METHOD

Incinerate "oil-dri" combination.

Flush into waste reclamation tanks.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NA

VENTILATION

LOCAL EXHAUST

SPECIAL

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

None required

EYE PROTECTION

Yes if apt to splash.

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Protect from freezing.

OTHER PRECAUTIONS