

APR 26 '95 11:52AM WARD017100040174
 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)	COC; >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			

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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