

SAFETY DATA SHEET

SECTION 1: Product and Company Identification

Product Name: COBRA COOLANT

SDS Number: 091-0598

Recommended use and restriction on use:

Recommended use: Coolant for water cooled aluminum welding equipment.

Restrictions on use: None known. Read and understand this SDS before using this product.

Manufacturer Information:

MK Products
16882 Armstrong Ave
Irvine, CA 92606
Phone: (949)-863-1234
www.mkproducts.com

24-Hour Emergency Response Telephone Numbers:

<u>Area</u>	<u>Telephone</u>
USA/Canada/Mexico	1-(855)-243-2301
Outside USA/Canada/Mexico	1-(760)-605-8703

3E Company Access Code: 14727

SECTION 2: Hazards Identification

GHS Classification: Acute toxicity: Oral, Category 4, H302
Skin irritation: Category 2, H315
Eye irritation: Category 2B, H320
Specific target organ toxicity: repeated exposure, oral, Category 2: Kidneys, H373

GHS Label Elements:



Signal Word: Warning

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation
H315	Causes skin irritation
H373	May cause damage to organs (kidneys) through prolonged or repeated exposure if swallowed

Precautionary Statements:

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P332+P313	If skin irritation occurs: Get medical advice/attention.



P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing.
P501 Dispose of contents/container to an appropriate waste disposal plant

SECTION 3: Composition/Information on Ingredients

Reportable Hazardous Ingredients of the Mixture

Component	CAS-No.	Concentration
Ethylene glycol	107-21-1	<=100%
Nitric acid sodium salt	7631-99-4	<=5%
Potassium hydroxide	1310-58-3	<=5%

Composition Comments: The term "hazardous ingredients" should be interpreted as a term defined in the OSHA Hazard Communication Standard and does not necessarily imply the existence of a welding hazard. Refer to the Safety Data Sheet of the welding electrode used for additional health and safety information.

SECTION 4: First Aid Measures

General

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effects occur. When possible bring along copy of label and SDS to health professional.

- Inhalation:** Remove individual to fresh air. If breathing is difficult give oxygen.
- Skin Contact:** Flush the affected area with water for 15 minutes minimum. Remove exposed or contaminated clothing and shoes. Wash contaminated clothing before reuse. Seek medical attention if irritation persists.
- Eye Contact:** Remove contact lenses if present. Rinse eyes thoroughly with water for 15 minutes minimum. Seek medical attention if irritation persists.
- Ingestion:** If conscious give one cup of water or milk if available and transport to a medical facility. Do not give anything by mouth to an unconscious person.
- Most important symptoms acute or delayed:** NOTE TO PHYSICIAN: Ingestion or significant exposure to this material may cause metabolic acidosis and kidney damage.
- Recommendations for immediate medical care and special treatment:** Immediate medical treatment is extremely important. Treat symptomatically.

SECTION 5: Fire Fighting Measures

- Suitable extinguishing media:** Carbon dioxide, extinguishing powder or water spray.
- Unsuitable extinguishing media:** Not available
- Specific hazards arising during fire:** Combustion may generate carbon monoxide, carbon dioxide, oxides of nitrogen
- Firefighting equipment:** Firefighters should wear suitable protective equipment
- Firefighting instructions:** Evacuate personnel to a safe area. Firefighters should use self contained breathing equipment and protective clothing. Keep containers cool with water spray.



SECTION 6: Accidental Release Measures

Personal Precautions: Wear appropriate protective equipment and clothing during clean up. Keep unprotected persons away.

Environmental Precautions Do not allow product to enter sewers, surface or ground waters.

Methods and materials for containment and cleanup: Contain and recover liquid when possible. Absorb with suitable absorbent and place in a chemical waste container for proper disposal (see Section 13, Disposal Considerations).

SECTION 7: Handling and Storage

Precautions for safe handling: As with all chemical products, avoid contact and wash thoroughly after handling. Do not eat, drink or smoke while using this product. Use only in well-ventilated areas. Remove contaminated clothing and protective equipment before entering eating areas.

Conditions for safe storage including incompatibilities: All personnel who handle this product should be trained in its safe handling. Store tightly closed in cool, dry, ventilated area. Keep out of direct sunlight and away from heat and incompatible materials. Avoid contact with acids, oxidizing agents, and caustics.

SECTION 8: Exposure Controls/Personal Protection

Exposure limit values

Material	CAS#	List	Type	Value
Ethylene glycol	107-21-1	ACGIH OSHA Table Z-1	Ceiling	100 mg/m3 (aerosol only) 50 ppm (125 mg/m3)
Potassium Hydroxide	1310-58-3	ACGIH	Ceiling	2mg/m3
Nitric acid, sodium salt	7631-99-4	No exposure limits set		

Appropriate Engineering Controls: Provide sufficient mechanical (general/and or local exhaust) ventilation to maintain exposure below exposure guidelines, if applicable, or below levels that cause known, suspected, or adverse effects.

Personal Protective Measures

Eye/face protection: Use chemical goggles or full face shield.

Hand protection: Use chemically-resistant gloves.

Respiratory protection: If airborne concentrations exceed applicable exposure limits use NIOSH-approved respiratory protection.

Thermal hazards: Not available

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice. Eyewash station and safety shower should be in vicinity of work area.

SECTION 9: Physical and Chemical Properties

Appearance: Purple liquid

Odor: Faint

Odor threshold: Not available



pH (concentrate):	10.0-10.5
Solubility in water:	Soluble
Viscosity:	Not available
Specific gravity:	appx 1.05
Melting point:	Not available
Freezing point:	Not available
Initial boiling point and boiling range:	Not available
Flash point:	115-116 C (239-241F), closed cup
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/Lower flammability or explosive limits (%)	
Flammability limit-lower:	Not available
Flammability limit-upper:	Not available
Explosive limit-lower:	Not available
Explosive limit-upper:	Not available
Vapor pressure	Not available
Vapor density	Not available
Density (lb/gal)	9.0
Partition coefficient (octanol:water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

SECTION 10: Stability and Reactivity

Reactivity:	No reactivity hazards are known.
Chemical Stability:	Material is stable under normal conditions of storage and handling.
Possibility of hazardous reactions:	No hazardous reactions are known under normal conditions of use.
Conditions to avoid:	Keep away from heat, sparks, open flames. Protect from freezing.
Materials to avoid:	Keep away from incompatible materials (strong acids, oxidizing agents, caustics) (see Section 7).
Hazardous decomposition products:	May include carbon monoxide, carbon dioxide, oxides of nitrogen

SECTION 11: Toxicological Information

Acute Toxicity:

Product	CAS#	Species	Test Result
Ethylene glycol	107-21-1		
Oral			
LD 50		Rat	7712 mg/kg
Dermal			
LD 50		Mouse	>3500mg/kg



Eyes:	Causes eye irritation.
Skin:	Causes skin irritation.
Inhalation:	May cause irritation of the respiratory tract with prolonged exposure.
Ingestion:	The estimated fatal dose of ethylene glycol for man is 100 mL (1/2 cup). Ingestion may cause inebriation, nausea, vomiting, metabolic acidosis, and CNS depression. Tachycardia, hypertension, hyperventilation, hypoxia and renal failure are also possible.

Reproductive toxicity:

Ethylene glycol does not impair fertility. Not expected to be a developmental toxicant. Causes fetotoxicity in animals, considered to be secondary to maternal toxicity.

Specific target organ toxicity (STOT) single dose

Ingestion may cause drowsiness and dizziness. Inhalation of vapors or mists may cause irritation of the respiratory tract.

Specific target organ toxicity (STOT) repeated exposure

May cause damage to kidneys and other organs through prolonged or repeated exposure

Additional Information:

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Carcinogenicity:

IARC:	No ingredient is considered to be carcinogenic.
NTP:	No ingredient is considered to be carcinogenic.
OSHA:	No ingredient is considered to be carcinogenic.

SECTION 12: Ecological Information

Ecotoxicity:	Acute toxicity to fish: ethylene glycol LC/EC/IC50 >100 mg/L Chronic toxicity to fish: ethylene glycol NOEC/NOEL > 100 mg/L
Persistence and degradability:	Not available.
Bioaccumulation potential:	Not expected to bioaccumulate
Mobility:	Product is soluble in water and may contaminate groundwaters
Other adverse effects:	Not available.

SECTION 13: Disposal Considerations

Disposal instructions:	Waste disposal must be in accordance with appropriate US federal, state and local regulations.
Disposal of contaminated containers or packaging:	Dispose of as unused product.



SECTION 14: Transportation Information

UN Number: 3082
UN proper shipping name: Environmentally hazardous substance, liquid, N.O.S. (Ethylene glycol)
Reportable Quantity (RQ): 5000 lb
Transport hazard class: 9
Packing group: III
Marine pollutant: No
Poison inhalation hazard: No

Footnote: This material is not regulated under 49 CFR when the quantity in a package is less than the product RQ.

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory Information

Toxic Substances Control Act (TSCA): All components of this product are on the TSCA Inventory or are exempt from reporting requirements.

SARA 302 Extremely Hazardous Substances: Ethylene glycol (RQ=5000 lbs)

SARA 311/312 Classification:

Immediate hazard	Yes
Delayed hazard	Yes
Fire hazard	No
Reactive hazard	No
Pressure hazard	No

SARA 313 Components: Ethylene glycol (RQ=5000lb)

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):
This product contains no chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other Information

Revision: E
Revision date: 05/29/2015

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