



MATERIAL SAFETY DATA SHEET

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Section 1 Identification

Product Identification **KG-12 Copper Remover**

Manufacturer's Name KG Industries, LLC

Address:

204 Mustang Cove

Mustang Creek Industrial Park

Taylor Tx, 76574

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Emergency Phone USA# (800) 424 9300

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Section 2 Hazardous Ingredients

Ingredient	Percent	CAS Number
Hydrocyanic Acid	Trade Secret	143-33-9
m-Nitrobenzene Sulfonic acid, Sodium Salt	Trade Secret	127-68-4

Cyanides have an 8 hour TWA WEL of 5 mg/cu.m (measured as cyanide) for the EU and the ACGIH TLV is a STEL of 5 mg/cu.m (measured as cyanide)

Product as supplied presents no hazardous issues. According to the DOT the amount of Hydrocyanic Acid is such that it does not require hazardous transportation or hazardous shipping labels. Product as supplied is >90% water and is considered an irritant. If product evaporates 100% to dry powder follow instructions below.

Section 3 Hazards Identification

As supplied classified as Irritant (per the EU Preparations Directive) if spilled product is allowed to evaporate to low volume, the fluid or any solid residue could be very toxic and be an irritant (see Section 4).

Section 4 First Aid Measures

Accidental contact with the product as supplied is unlikely to result in serious adverse effects.

In the event of contact with eyes, wash immediately with clean water or eye-wash solution for 10 - 15 minutes.

In the event of contact with the skin or mouth, remove contaminated clothing and wash the affected area liberally with water and rinse mouth repeatedly with drinking water without swallowing.

In the event of inhaling a mist or spray of the product, remove from exposure and observe carefully for at least 30 minutes. In the event of non-respiratory symptoms or a rise in heart rate, obtain medical advice.

In exceptional circumstances in which the product is concentrated by evaporation or there has been deliberate ingestion, there is a possibility of cyanide poisoning.

First-Aiders should follow the advice of an experienced physician or their local accident and emergency department regarding the First-Aid treatment of cyanide poisoning and should ensure that the recommended antidotes are in stock and within their expiry date. The administration of oxygen and of amyl nitrate by inhalation is probably the most effective First Aid measure.

Users of this product may wish to obtain a 'Cyanide Emergency Kit' for use by doctors that can be sent to hospital with a poisoned casualty to ensure the antidotes are readily available.

Section 5 Fire - Fighting Measures

The product is non-flammable.

The choice of extinguishant is dictated by other materials involved.

Evacuate hazard area of unprotected personnel.

Fire fighters should wear full protective clothing and approved self-contained full face breathing apparatus operated in the positive pressure demand mode.

Section 6 Accidental Release Measures

Evacuate the hazard area of unprotected personnel.

Wear appropriate clothing and respirator.

Shut off source of leak only if safe to do so. Bund to contain and detoxify with Hypochlorite

Flush affected area with copious amounts of water or diluted solution of Sodium Hypochlorite

Follow local, regional and national guidelines.

Section 7 Handling and Storage

As supplied store in room temperatures. Do not handle dust residue or breathe or handle. Avoid skin contact.

Store in a cool, dry well ventilated location away from Incompatible materials.

Avoid contact with strong oxidizing agents. Avoid contact with concentrated acids.

Do not mix with any acidic materials.

Always have on hand agreed First Aid items.

Section 8 Exposure Controls / Personal Protection

Use in open air or in a well ventilated location, preferably over a tray that would contain any spillage and can be thoroughly washed.

Wear disposable impervious gloves and apron.

If working at eye-level, wear chemical goggles.

Wash gloves, apron and any rags used in dilute sodium hypochlorite solution before disposal.

Section 9 Physical and Chemical Properties

Odour: Odourless

Boiling Point: 100C

Specific Gravity: approximately 1

Vapor Pressure: Negligible

Melting Point: N/A

Vapor Density: Not Volatile

Water Solubility: Completely miscible aqueous solution

pH: N/A

Section 10 Stability and Reactivity

Stable: Hazardous polymerisation will not occur

Avoid contact with strong oxidizing agents.

Avoid contact with concentrated acids.

Do not mix with any acidic materials.

Carbon Monoxide and other unidentified organic compounds may be formed in the presence of combustion.

Section 11 Toxicological Information

The product itself has not been subjected to toxicological testing

Sodium Cyanide / Hydrocyanic, sodium salt.

Acute oral toxicity: LD50 6.4 mg/kg bw

Because of the very high toxicity, other conventional toxicological data are not available.

Cyanide ions are highly toxic to cellular respiratory processes, causing impaired consciousness, cyanosis, rapid breathing (initially), cessation of breathing and circulatory collapse, potentially leading to death.

Such effects are unlikely because of the dilute nature of the product as supplied.

M-nitrobenzene sulphonic acid, sodium salt

Acute oral toxicity: LD50 = 11,000 mg/kgbw

Eye irritation: Draize test, rabbit: 20 mg/24H Moderate;

Skin irritation: Draize test, rabbit: 500 mg/24H Mild;

Irritant effects are unlikely because of the dilute nature of the product as supplied.

Carcinogenicity: Not listed as a carcinogen

Epidemiology: .No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Mutagenicity: No information available.

Neurotoxicity: No information available.

Section 12 Ecological Information

Sodium cyanide is very toxic to aquatic organisms, but, because of its dilute nature, the product as supplied is unlikely to cause damage to organisms in surface waters.

Section 13 Disposal Considerations

Use non-leaking approved containers sealed tightly and labeled properly.

Dispose of in accordance with all local, regional and national regulations.

Containers, even those that have been emptied will retain product residue and vapors.

Always obey hazard warnings and handle empty containers as if they were full.

Section 14 Transport Information

Hazardous ingredients less than 2%

Emergency Action Code N/A >90% Water

May be carried in tanks by road or rail

Section 15 Regulatory Information

Classified as 'Irritant' according to the administrative provisions of the EC Preparations Directive

TSCA 8(b): Inventory All chemical substances in this material are
Status: included on exempted from listing on the TSCA
Inventory of Chemical Substances.

Section 15 Regulatory Information Cont.

R23/24/25-51-53

S: (1/2-)7-28(water) -29-45-60-61

Section 16 Other Information

Manufacture of this product is intended for use as a gun / firearms & weapons cleaner.
For professional use only

HIMS Codes	Health	Fire	Reactivity	Special
	2	0	0	N/A

NFPA Codes	Health	Flammability	Reactivity
	2	0	0

KG Industries provides the information herein in good faith. This document is only intended as a guide to the appropriate precautionary handling of the material by a trained person using this product. Regulatory requirements are subject to change and may differ from one location to another. Conditions of handling and use or misuse are beyond our control.

Due to the many chemicals on the market to clean firearms **the use of other cleaning solvents / bore cleaners is not recommended.** .