



Section 1. Identification

Product name Coupling Gel #6
Product code FG19904

Relevant identified uses of the substance or mixture and uses advised against

Product Use Metalworking - Odor Control
For specific application advice see the appropriate Product Data Sheet or contact your company representative

Manufacturer CGF.
317 Peoples Ave
Rockford, IL
61104
Product information: 815-967-4400

Emergency Spill
Information: Contact CHEMTREC at 1 (800) 424-9300 USA

Section 2. Hazards Identification

OSHA/HCS status

Classification of the substance or mixture

Physical Hazards Does not meet the criteria for classification.

Health Hazards Does not meet the criteria for classification.

Environmental Hazards Does not meet the criteria for classification.

GHS label elements

Hazard pictograms

Signal Word No Signal Word

Hazard Statements	No known significant effects or critical hazards
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Precautionary Statements

Prevention:

Response: No known significant effects or critical hazards

Storage: Not Applicable

Disposal: Not Applicable

Hazards not otherwise classified See "Notes to Physician" under First-Aid Measures, Section 4 of this Safety Data Sheet.

Section 3. Composition / Information on Ingredients



Substance/mixture Ingredient name	This material is defined as a mixture	CAS Number	%/Weight
Triethanolamine		102-71-6	30 to 50%
Citric Acid		77-92-9	10 to 15%

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and therefore would require reporting in this section.
Occupational exposure limits, if available, are listed in Section 8

Section 4. First Aid Measures

Description of necessary first aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Chemical burns must be treated promptly by a physician.
Skin contact	Immediately wash exposed skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur. Chemical burns must be treated promptly by a physician
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately. Get medical attention if symptoms occur. Chemical burns must be treated promptly by a physician.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Most important symptoms/effects, acute and delayed

See Section 11 for more detailed information on health effects and symptoms

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treatment in general should be symptomatic and directed to relieving any effects. In case of inhalation of decomposition products in fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	No specific treatment.

Section 5. Fire-Fighting Measures

Exstinguishing media

Suitable extinguishing media	Use water fog, foam, dry chemical or carbon dioxide (CO ₂) to extinguish flames.
Unsuitable extinguishing media	Do not use water jet
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst. Fire water contaminated with this material must be contained and prevented from being discharged in to any waterway, sewer or drain.
Hazardous combustion products	Oxides of Carbon Oxides of Nitrogen
Special protective actions for fire-fighters	Evacuate the area. Prevent run off from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.



Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Immediately contact emergency personnel. No action should be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Eliminate all ignition sources. Avoid breathing vapor or mist. Ensure good ventilation. Put on appropriate personal protective equipment (See Section 8).

Depending on the extent of the release, consider the need for fire fighter/emergency responders with adequate personal protective equipment for cleaning up.

For emergency responders Entry into a confined space or poorly ventilated area contaminated with vapor, mist, or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable protective chemical suit and chemical resistant boots. See also the information "For non-emergency personnel".

Environmental Precautions Avoid dispersal of spilled material and runoff from contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up:

Large Spill Stop leak if without risk. Move containers from spill area. Approach spill from upwind. Prevent entry into sewers, waterways, basements or confined areas. Wash spillages into an on-site effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite, or diatomaceous earth and place in container for disposal according to local and state regulations (See Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same risk as the spilled product.

Small Spill Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same risk as the spilled product.

Section 7. Handling and Storage

Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see section 8). Workers should wash hands and face before eating, drinking and smoking. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Avoid contact of spilled material and runoff with soil and surface waterways. Avoid contact with eyes, skin and clothing. Empty containers contain product residue and may be hazardous. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container.

Store and use away from heat, sparks, open flame or any other ignition source.

Advice on general occupational hygiene Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see section 10), food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.
This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore no nitrites or related nitrosating agents should be added to such compositions.



Section 8. Exposure Controls / Personal Protection

Control parameters

Occupational exposure limits

Ingredient Name	OSHA TWA (mg/m ³)	ACGIH TWA (mg/m ³)	Manufacturers Suggested TWA (mg/m ³)
Triethanolamine	NA	5	NA
Citric Acid	NA	NA	NA

NA = Not Available

While specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Appropriate engineering controls

All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Personnel must be properly trained in the use of any personal protective equipment. Your supplier of personal protective equipment should be consulted for advice selection and appropriate standards.

Use only with adequate ventilation. If user operations generate dust, fume, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

The final choice of protective equipment will depend upon risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene Measures

Ensure that eyewash stations and safety showers are close to the work location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Thoroughly wash contaminated clothing before reuse.

Eye Protection

Avoid Contact with eyes. Wear safety glasses with side shield or chemical goggles

Skin Protection measures

Hand protection

Where protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile rubber or PVC coated gloves.

The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposure). Most gloves provide only short term protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the glove supplier/manufacturer and will a full assessment of the working conditions.

Body protection

Use of protective clothing is good industrial practice. Cotton or polyester/cotton overalls will only provide protection against light, superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high (e.g. when cleaning up spills or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.



Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist for handling this product.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory equipment should therefore be chosen with the supplier/manufacturer and with a full assessment of the working conditions.

Section 9. Physical and Chemical Properties

Appearance

Physical state	Liquid
Color	Blue
Odor	Mild
Odor threshold	Not available.
pH (neat)	9.5 to 10.5
pH (5% in DI water)	9.0 to 10.0
Melting/freezing point	Not available.
Initial boiling point and boiling point range	Not available.
Flashpoint, °F	Water content interferes with flash point determination
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable. Based on – Physical state
Lower and upper flammability or explosive limits	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	9.89 pounds per gallon at 68°F
Specific gravity	1.187 gm/cm ³ at 20°C
Solubility	Completely soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
VOC content, %/wt	Not available. (CARB Method 310, LVC-VOC chemicals not included in this calculation)

Section 10. Stability and Reactivity

Reactivity	No specific test data available for this product. Refer to conditions to avoid and Incompatible materials for additional information
Chemical stability:	The product is stable
Incompatible materials	Strong oxidizing agents
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization should not occur
Conditions to Avoid:	High temperatures
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced



Section 11. Toxicological Information

Information on toxicological effects

Classification of hazardous ingredients

Acute toxicity - oral Copper Carbonate	Category 4
Acute toxicity - dermal None	
Acute toxicity - inhalation None	
Skin corrosion/irritation Copper Carbonate	Category 2
Serious eye damage/irritation Citric Acid	Category 2
Copper Carbonate	Category 2A
Respiratory sensitization None	
Skin sensitization None	
Germ cell mutagenicity None	
Carcinogenicity None	
Reproductive toxicity None	
Specific target organ toxicity – single exposure None	
Specific target organ toxicity – repeated exposure None	
Aspiration hazard None	

Information on likely routes of exposure Routes of entry anticipated: Dermal, Inhalation

Potential acute health effects

Eye contact	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

Symptoms related to physical, chemical and toxicological characteristics

Eye contact	No specific data.
Skin contact	No specific data
Inhalation	No specific data
Ingestion	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	Not available.
Potential long term effects	Not available.
Long term exposure	
Potential immediate effects	Not available.
Potential delayed effects	Not available.



Potential chronic health effects

General	No significant effects or critical hazards.
Carcinogenicity	No significant effects or critical hazards.
Mutagenicity	No significant effects or critical hazards.
Teratogenicity	No significant effects or critical hazards.
Developmental effects	No significant effects or critical hazards.
Fertility effects	No significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Other information

This product contains an alkanolamine. In all metalworking fluids containing amines, there is a potential for forming nitrosamines which are animal carcinogens. Therefore no nitrites or related nitosating agents should be added to such compositions.

Section 12. Ecological Information

Toxicity

No testing has been performed by the manufacturer.

Persistence and degradability

Expected to be biodegradable

Bioaccumulation potential

This product is not expected to bioaccumulate through food chains in the environment

Mobility in soil

Soil/water partition coefficient (K_{oc}) Not available.

Mobility

Spillages may penetrate the soil causing ground water contamination

Other adverse effects

No known significant effects or critical hazards.

Other ecological information

Not available.

Section 13. Disposal Considerations

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

NOTE: The generator of waste has the responsibility for proper waste identification (based on characteristic(s) or listing), transportation and disposal

Section 14. Transport Information

	Land Transport DOT Classification	Sea Transport IMDG	Air Transport IATA
UN Number	Not regulated by the DOT	-	-
UN proper shipping name	-	-	-



Transport hazard class(es)	-	-	-
Packing group	-	-	-
Marine pollutant	-	-	-
ERG page number	-	-	-
Additional information	-	-	-

Section 15. Regulatory Information

Toxic substance control act (TSCA) All components of this product are listed or exempted

US Federal regulations:
 RCRA Hazardous Waste Code: The generator of waste has the responsibility for proper waste identification (based on characteristics or listing), transportation and disposal

Clean Air Act, TQ: Does not contain any substances listed under the Clean Air Act

SARA 302/304 EHS	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; border-bottom: 1px solid black;">Chemical Name</td> <td style="width: 10%; text-align: center; border-bottom: 1px solid black;">Pounds</td> <td style="width: 20%;"></td> </tr> <tr> <td style="border-bottom: 1px solid black;">None</td> <td style="text-align: center; border-bottom: 1px solid black;">RQ</td> <td style="text-align: center; border-bottom: 1px solid black;">TPQ</td> </tr> </table>	Chemical Name	Pounds		None	RQ	TPQ
Chemical Name	Pounds						
None	RQ	TPQ					

CERCLA Hazardous Substance, RQ (40 CFR Part 302 table 302.4)	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%; border-bottom: 1px solid black;">Chemical Name</td> <td style="width: 30%; text-align: center; border-bottom: 1px solid black;">RQ (Pounds)</td> </tr> <tr> <td style="border-bottom: 1px solid black;">None</td> <td style="text-align: center; border-bottom: 1px solid black;"></td> </tr> </table>	Chemical Name	RQ (Pounds)	None	
Chemical Name	RQ (Pounds)				
None					

SARA 311 / 312 Hazard Identification	Immediate (Acute) Health	Yes
	Delayed (Chronic) Health	Yes
	Fire	No
	Reactive	No
	Sudden Release of Pressure	No

SARA 313	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%; border-bottom: 1px solid black;">Component</td> <td style="width: 30%; border-bottom: 1px solid black;">CAS Number</td> <td style="width: 30%; border-bottom: 1px solid black;">Weight %</td> </tr> <tr> <td style="border-bottom: 1px solid black;">Copper Carbonate</td> <td style="border-bottom: 1px solid black;">12069-69-1</td> <td style="border-bottom: 1px solid black;">5 to 10%</td> </tr> </table>	Component	CAS Number	Weight %	Copper Carbonate	12069-69-1	5 to 10%
Component	CAS Number	Weight %					
Copper Carbonate	12069-69-1	5 to 10%					

International Regulations:
 Canadian DSL: All components are listed or exempted

China Inventory (IECSC): All components are listed or exempted

Section 16. Other Information

HMIS

Health	1
Flammability	0
Physical	0
Personal Protection	B - Safety Glasses, Gloves

NFPA

Health	1
Flammability	0
Instability	0
Specific Hazard	

Date of issue 09/07/2017



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