

SAFETY DATA SHEET

1. Identification

Product identifier	CETCO® JOINT COMPOU	ND	
Other means of identification	None.		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier	/Distributor information		
Manufacturer			
Company name	CETCO, an MTI Company		
Address	2870 Forbs Avenue		
	Hoffman Estates, IL 60192 United States		
Telephone	General Information	800 527-9948	
Website	http://www.cetco.com/		
E-mail	safetydata@mineralstech.co	om 1.866.519.4752/ ⁻	1 760 476 3062
Emergency phone number	Emergency Not available.	1.000.319.4732/	1700 470 3902
Supplier	Not available.		
2. Hazard identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 5
	Specific target organ toxicity	y, single exposure	Category 2
	Specific target organ toxicity	y, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity exposure	y, repeated	Category 2
Environmental hazards	Not classified.		
Label elements			
Signal word	Warning		
Hazard statement	May be harmful if swallowed cause damage to organs the		iratory irritation. May cause damage to organs. May repeated exposure.
Precautionary statement			
Prevention	Keep out of reach of childre dust/fume/gas/mist/vapors/s when using this product. Us	spray. Wash thoro	oughly after handling. Do not eat, drink or smoke
Response	If medical advice is needed, have product container or label at hand. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Specific treatment (see on this label). IF exposed or concerned: Call a POISON CENTER/doctor.		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Supplemental information	None.		
Other hazards	None known.		

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
TALC		14807-96-6	10 - < 20
COPPER		7440-50-8	1 - < 5

Chemical name	Common name and synonyms	CAS number	%
TRADE SECRET		Proprietary	1 - < 5
Zinc		7440-66-6	1 - < 5
CALCIUM OXIDE (LIME)		1305-78-8	1
Other components below repor	table levels		70 - < 80
All concentrations are in percent b			ume. *Designates that
Composition comments	The full text for all R- and H-phrases is display mentioned in this Section, see Section 15.	red in section 16. For the full	text of the R phrases
4. First-aid measures			
Inhalation	Remove victim to fresh air and keep at rest in artificial respiration if needed. Do not use mou Induce artificial respiration with the aid of a po proper respiratory medical device. Call a poiso	th-to-mouth method if victim cket mask equipped with a o	inhaled the substance. ne-way valve or other
Skin contact	Wash off with soap and water. Get medical att skin contact, avoid spreading material on una		
Eye contact	Rinse with water. Get medical attention if irrita	tion develops and persists.	
Ingestion	Rinse mouth thoroughly. Never give anything convulsions. If vomiting occurs, keep head low Do not use mouth-to-mouth method if victim ir with the aid of a pocket mask equipped with a device. Get medical advice/attention if you fee	y so that stomach content do igested the substance. Induc one-way valve or other prop	esn't get into the lungs e artificial respiration
Most important symptoms/effects, acute and delayed	May cause respiratory irritation. Prolonged ex	posure may cause chronic ef	fects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea give oxygen. Keep victim under observation. S		shortness of breath,
General information	In case of shortness of breath, give oxygen. If where possible). Ensure that medical personn precautions to protect themselves. Show this victim under observation. Keep victim warm.	el are aware of the material(s	s) involved, and take
5. Fire-fighting measures			
Suitable extinguishing media	Powder. Dry chemical, CO2, water spray or re	gular foam. Dry sand.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as thi	s will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	formed.	
Special protective equipment and precautions for firefighters	As in any fire, wear self-contained breathing a (approved or equivalent) and full protective ge		MSHA/NIOSH
Fire fighting equipment/instructions	Withdraw immediately in case of rising sound tanks due to fire. Do not scatter spilled materia with flooding quantities of water until well after	al with high pressure water st	
Specific methods	Use standard firefighting procedures and cons	ider the hazards of other inve	olved materials.
General fire hazards	No unusual fire or explosion hazards noted. T	his product is combustible at	high temperatures.
6. Accidental release meas	sures		
Personal precautions, protective equipment and	Keep unnecessary personnel away. Keep peo appropriate protective equipment and clothing		

Personal precautions, protective equipment and emergency procedures i be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Stop leak if you can do so without risk.		
containment and cleaning up	Large Spills: Following product recovery, flush area with water.		
	Small Spills: Clean surface thoroughly to remove residual contamination.		
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Do not flush into surface water or sanitary sewer system. Runoff from fire control or dilution water may cause pollution.		
7. Handling and storage			
Precautions for safe handling	Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not taste or swallow. Do not get this material on clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Observe good industrial hygiene practices.		
Conditions for safe storage, including any incompatibilities	Store locked up. Keep away from heat, sparks, and flame. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep this material away from food, drink and animal feed. Keep out of the reach of children. Store away from incompatible materials (see Section 10 of the SDS).		

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values (TLV) Components Type Value Form			
	iype	Value	
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
TRADE SECRET	TWA	2 mg/m3	Respirable fraction.

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended

Components	Туре	Value	Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable particles.
TRADE SECRET	TWA	2 mg/m3	Respirable.

Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances Workers Compensation Board, as amended

Components	Туре	Value	Form	
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3		
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	
		0.2 mg/m3	Fume.	
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.	
TRADE SECRET	TWA	2 mg/m3	Respirable.	
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Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act), as amended

Components	Туре	Value	Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.
TRADE SECRET	TWA	2 mg/m3	Respirable fraction.

Components	Туре	Value	Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fibers.
TRADE SECRET	TWA	2 mg/m3	Respirable fibers.
Canada. Ontario OELs (Reg Components	ulation 833, Control of Exposure to Bio Type	logical or Chemical Agen Value	ts), as amended Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 fibers/cc	
		2 mg/m3	Respirable fraction.
TRADE SECRET	TWA	2 mg/m3	Respirable fraction.
Canada. Quebec OELs (Reg Components	gulation respecting occupational health Type	and safety, v. S-2.1, r.13), Value	as amended Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	TWA	2 mg/m3	
COPPER (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
TALC (CAS 14807-96-6)	TWA	2 mg/m3	Respirable dust.
TRADE SECRET	TWA	2 mg/m3	Respirable dust.
Canada. Saskatchewan OE Components	Ls (Occupational Health and Safety Rec Type	gulations, 1996; Table 21), Value	as amended Form
CALCIUM OXIDE (LIME) (CAS 1305-78-8)	15 minute	4 mg/m3	
COPPER (CAS 7440-50-8)	15 minute	3 mg/m3	Dust and mist.
		0.6 mg/m3	Fume.
TALC (CAS 14807-96-6)	15 minute	6 mg/m3	Respirable fraction.
		20 mg/m3	Inhalable fraction.
TRADE SECRET	15 minute	4 mg/m3	Respirable fraction.
logical limit values	No biological exposure limits noted for t	he ingredient(s).	
osure guidelines	Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica should be monitored and controlled. Occupational Exposure Limits are not relevant to the curre physical form of the product.		
propriate engineering trols	Good general ventilation should be used applicable, use process enclosures, loc maintain airborne levels below recomme established, maintain airborne levels to especially in confined areas.	al exhaust ventilation, or oth ended exposure limits. If ex	ner engineering controls to posure limits have not been
vidual protection measures, Eye/face protection	 s, such as personal protective equipment Do not get in eyes. Applicable for industrial settings only. Wear safety glasses with side shields goggles). 		
Skin protection Hand protection	Applicable for industrial settings only. W	/ear appropriate chemical re	esistant gloves.
Other	Wear oil-impervious garments if contact is unavoidable. Applicable for industrial settings only. not get this material in contact with skin. Wear chemical protective equipment that is specifical recommended by the manufacturer. Use of an impervious apron is recommended. It may provi little or no thermal protection.		

Respiratory protection	Applicable for industrial settings only. Use a particulate filter respirator for particulate concentrations exceeding the Occupational Exposure Limit.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Solid. Grease. Paste.
Color	Copper to black.
Odor	Hydrocarbon-like.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	390 °F (198.89 °C)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	9.90 @ 77.0 F estimated
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
Specific gravity	1.2 @ 77.0 F
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur. Will not occur.
Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Acids. Strong oxidizing agents. Aluminum. Chlorine. Fluorine. Phosphorus.
Hazardous decomposition products	No decomposition if stored and applied as directed. Thermal decomposition can lead to release of irritating gases and vapors.
11. Toxicological informat	ion

11. Toxicological information

Information on likely routes of exposure

Inhalation

May cause irritation to the respiratory system.

Skin contact	No adverse effects due to ski	a contact are expected	
Eye contact		Direct contact with eyes may cause temporary irritation.	
Ingestion	May be harmful if swallowed. May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.		
Symptoms related to the physical, chemical and toxicological characteristics	May cause respiratory irritatio	n.	
Information on toxicological eff	ects		
Acute toxicity	Causes burns. May be harmfu	ıl if swallowed.	
Product	Species	Test Results	
CETCO® JOINT COMPOUND			
<u>Acute</u> Dermal			
LD50	Rat	4433 mg/kg	
Inhalation LC50	Rat	6 mg/l/4h	
Oral			
LD50	Rat	7173 mg/kg	
Components	Species	Test Results	
CALCIUM OXIDE (LIME) (CAS 13 Acute Oral	305-78-8)		
LD50	Rat	500 mg/kg	
Zinc (CAS 7440-66-6)			
<u>Acute</u> Oral	- <i>i</i>	2000 <i>I</i>	
LD50	Rat	630 mg/kg	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.		
Serious eye damage/eye irritation			
Respiratory or skin sensitizatio			
Canada - Alberta OELs: Irrit CALCIUM OXIDE (LIME		Irritant	
TALC (CAS 14807-96-6)		Irritant	
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	Repeated or prolonged expos properties of the product.	ure may cause skin irritation and dermatitis, due to degreasing	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk" (SCOEL SUM Doc 94-final, June 2003) Cancer hazard. According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled.		
ACGIH Carcinogens			
TALC (CAS 14807-96-6)	A1 Confirmed human carcinogen.		

		A4 Not classifiable as a human carcinogen.	
Canada - Manitoba OELs: ca	arcinogenicity	-	
TALC (CAS 14807-96-6)		Confirmed human carcinogen.	
		Not classifiable as a human carcinogen.	
Canada - Quebec OELs: Ca	rcinogen category		
TALC (CAS 14807-96-6)		Detected carcinogenic effect in humans.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity		
TALC (CAS 14807-96-6)		2B Possibly carcinogenic to humans.	
		3 Not classifiable as to carcinogenicity to humans.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	May cause damage to organs. May cause respiratory irritation.		
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not an aspiration hazard.		
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects. Some of the components of this product are hazardous in the respirable form. However, because of the physical nature of this product, dust generation is not expected.		
Further information	Information given is based on data on the components and the toxicology of similar products.		

12. Ecological information

Ecotoxicity	No data avai	No data available for this product.			
Components		Species	Test Results		
CALCIUM OXIDE (LIME) (CAS 1305-78-8)					
Aquatic					
Fish	LC50	Fish	1070 mg/L, 96 Hours		
COPPER (CAS 7440-50-8)					
Aquatic					
Acute					
Crustacea	EC50	Blue crab (Callinectes sapidus)	0.0031 mg/l		
Fish	LC50	Chinook salmon (Oncorhynchus tshawytscha)	0.02 mg/l, 96 hours		
Zinc (CAS 7440-66-6)					
Aquatic					
Fish	LC50	Fish	6.4 mg/L, 96 Hours		
Acute					
Crustacea	EC50	Water flea (Daphnia magna)	2.8 mg/l, 48 hours		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.41 mg/l, 96 hours		
Persistence and degradability	No data is av	No data is available on the degradability of this product.			
Bioaccumulative potential	No data avai	No data available.			
Mobility in soil	No data avai	No data available.			
Other adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
13. Disposal considerations					
Disposal instructions	contaminate	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.			
Local disposal regulations	Dispose in a	Dispose in accordance with all applicable regulations.			
Hazardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.			

Waste from residues / unused
productsDispose of in accordance with local regulations. Empty containers or liners may retain some
product residues. This material and its container must be disposed of in a safe manner (see:
Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78 and

the IBC Code

IMDG Regulated Marine Pollutant.

15. Regulatory information

Canadian regulations

General information

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

COPPER (CAS 7440-50-8)

Zinc (CAS 7440-66-6) Precursor Control Regulations

ecuisor control regu

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

Inventory name

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information	
Issue date	10-August-2018
Revision date	24-April-2024
Version #	10
Further information	This safety datasheet only contains information relating to safety and does not replace any product information or product specification.
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents
Disclaimer	CETCO, an MTI Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The manufacturer expressly does not make any representations, warranties, or guarantees as to its accuracy, reliability or completeness nor assumes any liability, for its use. It is the user's responsibility to verify the suitability and completeness of such information for each particular use.
Revision information	material used in combination with any other materials or in any process, unless specified in the text. This document has undergone significant changes and should be reviewed in its entirety.