GHEMSERVICE

SAFETY DATA SHEET

1. Identification

Product identifier	Copper oleate		
Other means of identification			
Item	NG-S100		
CAS number	10402-16-1		
Recommended use	Not available.		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name Address	Chem Service, Inc. 660 Tower Lane West Chester, PA 19380 United States		
Telephone	Toll Free	800-452-9994	
	Direct	610-692-3026	
Website E-mail	www.chemservice.com info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
Emergency phone number	Chemtrec outside US	+1 703-527-3887	7
2. Hazard(s) identification			
Physical hazards	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 4
Environmental hazards	Hazardous to the aquatic er long-term hazard	nvironment,	Category 2
OSHA defined hazards	Not classified.		
Label elements			



Signal word	Warning
Hazard statement	Harmful if swallowed. Harmful in contact with skin. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing.
Response	If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

3. Composition/information on ingredients

Substances

Chemical name	Common name and synonyms	CAS number	%
Copper oleate		10402-16-1	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptom	s develop or persist.	
Skin contact	Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.		
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.		
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary	y irritation.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and trea under observation. Symptoms may be delaye		warm. Keep victim
General information	Ensure that medical personnel are aware of the protect themselves. Show this safety data she		e precautions to
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carb	on dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as th	is will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	otective clothing must be worn	in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers		
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other involv	ved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep per appropriate protective equipment and clothing or spilled material unless wearing appropriate Local authorities should be advised if significat protection, see section 8 of the SDS.	during clean-up. Do not touch protective clothing. Ensure ade	damaged containers
Methods and materials for containment and cleaning up	The product is immiscible with water and will s classified as a water pollutant under the Clear contaminating soil or from entering sewage a	n Water Act and should be prev	ented from
	Large Spills: Stop the flow of material, if this is possible. Absorb in vermiculite, dry sand or ear recovery, flush area with water.		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surfa	ce thoroughly to
	Never return spills to original containers for re	-use. For waste disposal, see s	ection 13 of the SDS
Environmental precautions	Avoid release to the environment. Inform appr environmental releases. Prevent further leaka drains, water courses or onto the ground.		
7. Handling and storage			
Precautions for safe handling	Do not taste or swallow. Avoid contact with ey When using, do not eat, drink or smoke. Provi protective equipment. Wash hands thoroughly Wash contaminated clothing before reuse. Ob	ide adequate ventilation. Wear a / after handling. Avoid release t	appropriate persona o the environment.

Wash contaminated clothing before reuse. Observe good industrial hygiene practices.Conditions for safe storage,
including any incompatibilitiesStore in original tightly closed container. Store away from incompatible materials (see Section 10
of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. ACGIH Threshold Lir			
Material	Туре	Value	Form
Copper oleate (CAS 10402-16-1)	TWA	1 mg/m3	Dust and mist.
,		0.2 mg/m3	Fume.
US. NIOSH: Pocket Guide	e to Chemical Hazards		
Material	Туре	Value	Form
Copper oleate (CAS 10402-16-1)	TWA	1 mg/m3	Dust and mist.
Biological limit values	No biological exposure limits noted for	the ingredient(s).	
Appropriate engineering controls	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		
Individual protection measure	es, such as personal protective equipme	nt	
Eye/face protection	Wear safety glasses with side shields	(or goggles).	
Skin protection			
Hand protection	Wear appropriate chemical resistant g	loves.	
Other	Wear appropriate chemical resistant c	lothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.		
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.		
General hygiene considerations	Keep away from food and drink. 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

Appearance		
Physical state	Solid.	
Form	Solid. Crystalline Solid	
Color	Brown or green-blue	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
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 explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	< 0.0000001 kPa (77 °F (25 °C))	
Vapor density	Not available.	
Relative density	Not available.	

Solubility (water) Insolub	
Solubility (water) Insolub	le
Partition coefficient Not ava (n-octanol/water)	ailable.
Auto-ignition temperature Not ava	ailable.
Decomposition temperature Not ava	ailable.
Viscosity Not ava	ailable.
Other information	
Explosive properties Not exp	olosive.
Molecular formula C18H3	402
Oxidizing properties Not oxi	dizing.

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Harmful in contact with skin.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
Information on toxicological effe	ects
Acute toxicity	Harmful in contact with skin. Harmful if swallowed.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	1
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
Not listed. OSHA Specifically Regulate Not regulated.	Evaluation of Carcinogenicity d Substances (29 CFR 1910.1001-1050) ogram (NTP) Report on Carcinogens
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

Chronic effects	Prolonged inhalation may be harmful.
12. Ecological information	l de la construcción de la constru
Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	
Bioaccumulative potential	No data available.
Mobility in soil	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

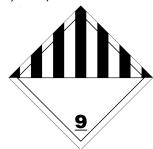
Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in 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 products	Dispose 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).
Contaminated packaging	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

DOT	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Copper oleate), MARINE POLLUTANT
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Label(s)	9
Packing group	III
Environmental hazards	
Marine pollutant	Yes
	er Read safety instructions, SDS and emergency procedures before handling.
Special provisions	8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33
Packaging exceptions	155
Packaging non bulk	213
Packaging bulk	240
ΙΑΤΑ	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (Copper oleate)
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	
Environmental hazards	Yes
ERG Code	9L
Special precautions for us Other information	er Read safety instructions, SDS and emergency procedures before handling.
• • • • • • • • • • • • • • • • • • • •	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Copper cleate), MARINE
	POLLUTANT

Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-F
• •	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

DOT; IATA; IMDG



Marine pollutant



General information

US federal regulations

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

Listed.

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper oleate (CAS 10402-16-1) SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA) **Hazard categories**

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed. SARA 311/312 Hazardous

chemical

Yes

Chemical name		CAS number	% by wt.	
Copper oleate		10402-16-1	100	
her federal regulations				
Clean Air Act (CAA) Sectior	112 Hazardous Air Po	ollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Sectior	n 112(r) Accidental Rel	ease Prevention (40 C	FR 68.130)	
Not regulated.				
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Priority pollutant Toxic pollutant			
Safe Drinking Water Act (SDWA)	1.3 mg/l 1.3 mg/l			
state regulations		0	orcement Act of 1986 (Prop tly listed as carcinogens or	,
ernational Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of	of Chemical Substances	(AICS)	Yes
Canada	Domestic Substances	s List (DSL)		Yes
Canada	Non-Domestic Substa	ances List (NDSL)		No
China	Inventory of Existing	Chemical Substances in	China (IECSC)	Yes
Europe	European Inventory of Substances (EINECS	of Existing Commercial C 5)	Chemical	Yes
Europe Europe	Substances (EINECS			Yes
	Substances (EINECS European List of Noti	5)	es (ELINCS)	
Europe	Substances (EINECS European List of Noti	i) fied Chemical Substance and New Chemical Subs	es (ELINCS)	No
Europe Japan	Substances (EINECS European List of Noti Inventory of Existing	;) fied Chemical Substance and New Chemical Subs ist (ECL)	es (ELINCS)	No Yes Yes
Europe Japan Korea	Substances (EINECS European List of Noti Inventory of Existing Existing Chemicals Li New Zealand Invento	;) fied Chemical Substance and New Chemical Subs ist (ECL)	es (ELINCS) stances (ENCS)	No Yes

*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, including date of preparation or last revision

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Issue date	06-15-2015
Revision date	08-20-2019
Version #	04
NFPA ratings	Health: 2 Flammability: Instability: 0

Disclaimer

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Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.

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Revision information