

Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 8780

Review Date: May 08.2023

1 Identification of substance and company Zinc sulfide, phosphorescent, green Product name: C8780 Product code: Relevant use and restrictions on use: Research and product development Manufacturer/Supplier: Lab Alley LLC 22111 Highway 71 West, Suite 601 Spicewood, Texas 78669 Tel.: 512-668-9918 Emergency information: Infotrac: 800-535-5053 2 Hazards identification **Emergency Overview:** Signal word(s): None Pictogram(s): None Hazard statements: None Precautionary statements: None Hazards not otherwise classified: None Ingredients of unknown acute toxicity: None Not a hazardous substance or mixture GHS Classification: HMIS ratings (scale 0-4): Health hazard: 1 Flammability: 0 Physical hazard: 0 3 Composition/Information on ingredients Chemical name: Zinc sulfide Designation: CAS number: 1314-98-3 (68611-70-1 Zinc sulfide, copper chloride-doped) 215-251-3 (271-904-2 Zinc sulfide, copper chloride-doped) EC number: Formula: ZnS Zinc sulphide, copper chloride-doped Synonyms: Ingredients of known acute toxicity: None 4 First aid measures After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Wash off with soap and plenty of water. Consult a physician. After skin contact: After eve contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. After ingestion: Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a physician. Information for doctor: Show this safety data sheet to the doctor in attendance May cause skin, eye or respiratory irritation Symptoms/effects; acute and delayed: Immediate medical attention and special treatment needed: No data available 5 Fire-fighting measures Suitable and unsuitable extinguishing agents: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide Special hazards caused by the material, its Hydrogen sulfide, oxides of zinc and sulfur (SOx) products of combustion or resulting gases: Special fire fighting procedures: Wear self-contained breathing apparatus (SCBA) and fully protective fire fighting equipment/clothing Unusual fire and explosion hazard: No data available 6 Accidental release measures Person-related safety precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Measures for environmental protection: Do not let product enter drains Measures for cleaning/collecting: Sweep or scoop up and remove. Place in a suitable container for proper disposal. Additional information: See Section 7 for information on safe handling See Section 8 for information on personal protective equipment See Section 13 for information on disposal See Section 15 for regulatory information

	7 Handling and storage
Information for safe handling:	Avoid contact with skin and eyes. Avoid formation of dust. Use with adequate ventilation.
Information about protection against	
explosions and fires:	Contact with acids may release hydrogen sulfide, a toxic and flammable gas that may form explosive
	mixtures in air.
Storage requirements to be met by storerooms	
and containers:	Keep container tightly closed in dry and well-ventilated place
ncompatibility (avoid contact with):	Strong acids
Further information about storage conditions:	Air and moisture sensitive
	8 Exposure controls/personal protection
/entilation requirements:	Use with adequate ventilation
Components with exposure limits that require	
monitoring:	Particulates not otherwise classified:
	OSHA PEL: 15 mg/m3 (total dust); 5 mg/m3 (respirable)
Additional information:	No further information available
General protective and hygienic measures:	The usual precautionary measures for handling chemicals should be adhered to
seneral protective and nygicille liteasures.	Keep away from foodstuffs, beverages and food
	Instantly remove any soiled and impregnated garments
	Wash hands during breaks and at the end of the work
Demonstration that a main of	Avoid contact with the eyes and skin
Personal protective equipment:	Files duct from mint requireter
Respiratory protection:	Filter-dust, fume, mist respirator
Use only NIOSH or CEN approved Equipment)	Use the with stress Olympic equation is a stress of the st
land protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique
	(without touching glove's outer surface) to avoid skin contact.
ye protection:	Safety glasses
Skin protection:	Protective work clothing
Additional protective equipment:	Sufficient to prevent contact. Emergency eyewash and safety shower.
Precautionary labeling:	Wash thoroughly after handling
	Do not get in eyes, on skin or on clothing
	Do not breathe dust, vapor, mist, or gas
	9 Physical and chemical properties
Physical state:	Powder
Color:	Bright green
Ddor:	Odorless
Odor threshold:	Not determined
Iolecular Weight (Calculated):	97.43
h	Not determined
Melting point/freezing point/range:	1700 C
Boiling point/range:	Not determined
ublimation temperature/start:	Not determined
Decomposition temperature:	Not determined
Flammability (solid, gas):	Not determined
lash point:	Not determined
Autoignition temperature:	Not determined
anger of explosion:	Not determined
lammable limits:	Not determined
ower:	Not determined
lpper:	Not determined
Evaporation Rate:	Not determined
/apor pressure (mm Hg):	Not determined
apor density:	Not determined
Specific gravity:	3.98 - 4.10
Bulk density:	Not determined
Solubility in/Miscibility with water:	Insoluble
Partition coefficient n-octanol/water:	Not determined

Reactivity:

Viscosity:

Chemical stability: Possibility of hazardous reactions: Conditions to be avoided:

Partition coefficient n-octanol/water:

Materials to be avoided: Dangerous reactions: Hazardous decomposition products: (thermal and other)

10 Stability and reactivity

Not determined

Not determined

No data available Stable under recommended storage conditions No data available Heat See section 7 for information on proper handling and storage Strong acids No data available Hydrogen sulfide, oxides of zinc and sulfur (SOx)

	11 Tavicelegical information
LD/LC50 values that are relevant for	11 Toxicological information
classification:	oral-rat LD ₅₀ : >2g/kg
	inhalation-rat LC _{so} : >5040 mg/m3/4H
	skin-rat LD ₅₀ : >2 g/kg
Irritation or corrosion of skin:	No data available
Irritation or corrosion of eyes:	No data available
-	Nu uata available
Primary irritant or corrosive effect:	Nota
on the skin:	Mild
on the eye:	Mild
Sensitization:	No data available
Potential health effects:	
Inhalation:	May cause irritation
Ingestion:	No data available
Skin:	May cause irritation
Eyes:	May cause irritation
Signs and symptoms of exposure:	No data available
Carcinogenicity:	Not classifiable as to its carcinogenicity based on its IARC, ACGIH, NEP, or EPA classification
Additional information:	To the best of our knowledge the acute and chronic toxicity of this substance is not fully known
	42 Entering Information
Toxicity	12 Ecotoxicological information
Toxicity:	Fetback minney I.C. + 4.000 me/l +001 I
Toxicity to fish:	Fathead minnow LC ₅₀ : 1,826 mg/L:96H
Toxicity to daphnia and other aquatic	
invertebrates:	No data available
Toxicity to algae:	No data available
Persistence and degradability:	
Biodegradability:	No data available
Bioaccumulative potential:	
Bioaccumulation:	No data available
Mobility in soil:	No data available
Other adverse effects:	No additional information available
Recommendation:	13 Disposal considerations
Recommendation:	Consult state, local or national regulation for proper disposal
	Allow professional disposal company to handle waste
Understanding and the second second second	Must be specially treated under adherence to official regulations
Unclean packagings recommendation:	Disposal must be made according to official regulations
	14 Transport information
Land transport DOT	
Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Zinc sulfide
Air transport ICAO-TI and IATA-DGR:	
Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Zinc sulfide
UPS Ground / FedEx Ground	
Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Zinc sulfide
UPS Air	
Proper shipping name:	Chemicals Non-Hazardous
Technical name:	Zinc sulfide
	15 Regulatory information
SARA Section 302 Extremely Hazardous	
components and corresponding TPQs:	Not subject
SARA Section 311 / 312 hazards:	Not subject
	This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency
SARA Section 313 components	
SARA Section 313 components:	
	Planning & Community Right-to-know Act of 1986 and 40CFR372
California Proposition 65 components:	Planning & Community Right-to-know Act of 1986 and 40CFR372 Not subject
	Planning & Community Right-to-know Act of 1986 and 40CFR372

16 Other information

The above information is accurate to the best of ourknowledge. However, sincedata, safety standards andgovernment regulation are subject to change and the conditions of handlingand use, or misuse are beyond ourcontrol. LAB ALLEY LLC MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON.User should satisfy himself that hehas all current data relevant to his particular use.