Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

Date of issue: 03/24/2017 Revision date: 03/24/2017 Version: 1.0 **SECTION 1: Identification** 1.1. Identification Product name : HARGER X-1410 Relevant identified uses of the substance or mixture and uses advised against 1.2. Use of the substance/mixture : Corrosion inhibitor Details of the supplier of the safety data sheet 1.3. Supplier Distributor HARGER LIGHTNING & GROUNDING Add the name, address and tel. number of the Canadian manufacturer 301 ZIEGLER DRIVE or importer who operates in Canada GRAYSLAKE, IL 60030 USA 1.4. **Emergency telephone number** Emergency number : CHEMTREC: 800-424-9300 **SECTION 2: Hazard identification** 2.1. Classification of the substance or mixture **GHS classification** Skin Sens. 1A 2.2. Label elements **GHS** labelling Hazard pictograms (GHS) GHS07 Signal word (GHS) : Warning Hazard statements (GHS) : May cause an allergic skin reaction Avoid breathing dust/fume/gas/mist/vapours/spray. Contaminated work clothing must not be Precautionary statements (GHS) allowed out of the workplace. Wear protective gloves. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation **Other hazards** 2.3. No additional information available 2.4. Unknown acute toxicity Not applicable **SECTION 3: Composition/information on ingredients** Substances 3.1. Not applicable 3.2. **Mixtures** Name **Product identifier** % (CAS-No.) 7440-50-8 20.00 Copper

SECTION 4: First aid measures 4.1. **Description of first aid measures**

First-aid measures after inhalation

1,3,4-Thiadiazole, 2,5-bis(octyldithio)-

: Not a normal route of exposure. If symptoms develop, remove to fresh air. Get medical attention if condition worsens.

(CAS-No.) 13539-13-4

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First-aid measures after skin contact	: IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
First-aid measures after ingestion	: Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.	
4.2. Most important symptoms and effo	ects, both acute and delayed	
Symptoms/effects after inhalation	: Not a normal route of exposure.	
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	 May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. 	
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
4.3. Indication of any immediate medic	cal attention and special treatment needed	
Symptoms may be delayed. In case of acciden	t or if you feel unwell, seek medical advice immediately (show the label where possible).	
SECTION 5: Fire-fighting measures		
5.1. Extinguishing media		
Suitable extinguishing media	: Dry chemical. Foam. Carbon dioxide. Water spray.	
Jnsuitable extinguishing media	: None known.	
5.2. Special hazards arising from the s	ubstance or mixture	
Fire hazard	: Products of combustion may include, and are not limited to: oxides of carbon.	
leactivity	: No dangerous reactions known under normal conditions of use.	
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5.3. Advice for firefighters Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory	
Totocion during monghing	protection (SCBA).	
SECTION 6: Accidental release me	asures	
6.1. Personal precautions, protective e	equipment and emergency procedures	
General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.	
6.1.1. For non-emergency personnel No additional information available		
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
Prevent entry to sewers and public waters.		
6.3. Methods and material for containn	nent and cleaning up	
For containment	 Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment. 	
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal.	
6.4. Reference to other sections		
For further information refer to section 8: "Expo	osure controls/personal protection"	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Precautions for safe handling	: Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not	
	swallow. Handle and open container with care. When using do not eat, drink or smoke.	
Hygiene measures	: Wash contaminated clothing before reuse. Always wash hands after handling the product.	

7.2. Conditions for safe storage, including any incompatibilities : Keep out of the reach of children. Keep container tightly closed.

Storage conditions

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ACGIH	ACGIH TV	VA (mg/m³)	0.2 mg/m³ (fume)
OSHA	OSHA PE	L (TWA) (mg/m³)	0.1 mg/m ³ (fume) 1 mg/m ³ (dust and mist)
IDLH	US IDLH (mg/m³)	100 mg/m ³ (dust, fume and mist)
NIOSH	NIOSH RE	EL (TWA) (mg/m³)	1 mg/m ³ (dust and mist) 0.1 mg/m ³ (fume)
1,3,4-Thiadiazole, 2,5-I	bis(octyldithio)- (1	3539-13-4)	
Not applicable			
8.2. Exposure con	trols		
Appropriate engineering of	controls	: Ensure good ventilation o	f the work station.
Hand protection		: Wear suitable gloves resi	stant to chemical penetration.
Eye protection		: Safety glasses or goggles	are recommended when using product.
Skin and body protection		: Wear suitable protective of	clothing.
Respiratory protection		In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.	
Environmental exposure	controls	: Avoid release to the envir	onment.
Other information		: Handle in accordance wit smoke when using this pr	h good industrial hygiene and safety procedures. Do not eat, drink or

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Appearance	: Paste / thick grease	
Colour	: Copper	
Odour	: No data available	
Odour threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: > 260 °C (> 500 °F)	
Relative evaporation rate (butylacetate=1)	: No data available	
Flammability (solid, gas)	: Not flammable	
Vapour pressure	: No data available	
Relative vapour density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Partition coefficient n-octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosive limits	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
9.2. Other information		
No additional information available		

No additional information available

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SECTION 10: Stability and read	ctivity	
10.1. Reactivity		
No dangerous reactions known under no	rmal conditions of use.	
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous read	tions	
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
Heat.		
10.5. Incompatible materials		
None known.		
10.6. Hazardous decomposition pr	roducts	
May include, and are not limited to: oxide	es of carbon.	
SECTION 11: Toxicological info	ormation	
11.1. Information on toxicological	effects	
Acute toxicity (oral)	: Not classified.	
Acute toxicity (dermal)	: Not classified.	
Acute toxicity (inhalation)	: Not classified.	
Skin corrosion/irritation	: Not classified.	
Serious eye damage/irritation	: Not classified.	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity	: Not classified.	
Carcinogenicity	: Not classified.	
Reproductive toxicity	: Not classified.	
STOT-single exposure	: Not classified.	
STOT-repeated exposure	: Not classified.	
Aspiration hazard	: Not classified.	
Symptoms/effects after inhalation	: Not a normal route of exposure.	
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, and cracking of the skin. May cause an allergic skin reaction.	
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.	
Symptoms/effects after ingestion	: May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
SECTION 12: Ecological inforn	nation	
12.1. Toxicity		
Ecology - general	: May cause long-term adverse effects in the aquatic environment.	
Copper (7440-50-8)		

LC50 fish 1 0.0068 - 0.0156 mg/l (Exposure time: 96 h - Species: Pimephales promelas)	
EC50 Daphnia 1 0.03 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])	
LC50 fish 2	< 0.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
12.2. Persistence and degradability	
HARGER X-1410	

Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
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Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	

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12.5. Other adverse effects Effect on the global warming : No known effects from this product. Other information : No other effects known. SECTION 13: Disposal considerations	
Other information : No other effects known.	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulation	ns.
SECTION 14: Transport information	15.

Not regulated

SECTION 15: Regulatory information

15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information		
Revision date	: 03/24/2017	
Other information	: None.	
Prepared by	: Nexreg Compliance Inc.	N E X R E G
	www.Nexreg.com	

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