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**Material Safety Data Sheet
 Defoamer 3110**

0	Health
0	Flammability
0	Reactivity
B	Protective Equipment

Identity: Defoamer 3110

Section I - Manufacturer's Information

GUARDIAN CSC
 6000 Susquehanna Plaza Dr.
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Emergency Phone: CHEMTREC
 Information: 1-800-424-9300
 Updated: 1/5/15
 DOT ID: 00000
 Chemical Family: Defoamer
 Hazard Class: None

Section II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
***** NO HAZARDOUS CHEMICALS *****				

Section III - Physical/Chemical Characteristics

Boiling Point:	N.D.	Specific Gravity (H ₂ O=1):	0.993 @ 25°C
Vapor Pressure:	N.D.	Freezing Point:	N.D.
Vapor Density:	N.D.	Evaporation Rate (nBuAc=1):	N.D.
Solubility In Water:	Dispersible	pH:	~7.5 (as is)
VOC (wt%)	N.D.	Viscosity:	~350 cps
Appearance And Odor:	White opaque liquid with low non-irritating odor		

Section IV - Fire and Explosion Hazard Data

Flash Point:	N/A	Flammable Limits LEL:	N/A	UEL:	N/A
Method Used:	N/A	Autoignition Temp.	N.D.		

Extinguishing Media/Special Procedures:

For fires in area use appropriate media. For example: Water spray, Carbon dioxide, Dry chemical, Alcohol foam. DO NOT USE: Sharp water jet.

Fire Fighting Methods:

Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Do not use direct water stream as this may spread the fire.

Fire and Explosion Hazards:

None known

Hazardous Combustion Products:

Carbon dioxide, Carbon monoxide, Formaldehyde, Silicon dioxide, Various hydrocarbon fragments, Dimethylcyclosiloxanes, Smoke.

Unusual Hazards:

NOT APPLICABLE

Section V - Reactivity Data

Stability:	Stable under normal conditions
Conditions to Avoid:	None known
Incompatibility (Materials to Avoid):	Oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition or Byproducts:	Carbon monoxide, Carbon dioxide, Silicone dioxide, Formaldehyde, Dimethylcyclosiloxanes. smoke.
Hazardous Polymerization:	Hazardous polymerization will not occur under normal conditions.
Personnel Conditions to Avoid:	Prolonged contact with skin, ingestion or inhalation

Section VI - Health Hazard Data

Route(s) of Entry:

Inhalation: Mild Skin: Mild Ingestion: Mild

Health Hazards (Acute and Chronic):

This product may be harmful if swallowed. Acute and chronic health hazards are difficult to accurately assess for mixtures. In general see the first aid section for acute effects and long term effects would have to be derived from these immediate results. Specific chronic effects can be studied from the individual hazardous chemicals as indicated under Section II as the best guess without extensive laboratory studies.

Carcinogenicity:

NTP: None Known IARC Monographs: None Known OSHA: None

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

Signs and Symptoms of Exposure:

CAUTION! This product may cause mild eye and skin irritation.

Potential Health Effects:

Routes of Exposure: Eyes, Ingestion, Skin, Inhalation

Target Organs: None known.

Eye Contact: May cause mild irritation.

Skin Contact: May cause mild irritation.

Skin Absorption: No data available.

Inhalation: No hazard expected under normal use. Vapors or mists may irritate: mucous membranes. Vapors or mists may cause: nausea, dizziness.

Ingestion: No hazard expected under normal use.

Medical Conditions Generally Aggravated By Exposure:

None known

Other: This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300°F (150°C) and above, in atmospheres which contain oxygen.

Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard.

Emergency and First Aid Procedures:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

SKIN: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water.

INHALATION: Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

INGESTION: If swallowed, call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs. Give 1-2 glasses of water to drink.

DO NOT INDUCE VOMITING IF:

Victim is in convulsions. Victim has symptoms of severe pain, burning sensation in the mouth or throat, or is already vomiting. Victim has ingested alkali, acid or petroleum distillate.

Note to Physicians:

There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled:

Eliminate all sources of ignition. Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit. Contain spill, place into drums for proper disposal. Soak up residue with inert absorbent material. Place in non-leaking containers for immediate disposal. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs. CAUTION: Spilled material may be slippery.

Hazardous Waste Number: N/A

Disposal Method: Dispose of in accordance with all local, state and federal regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. The information offered here is for the product as shipped. Use and/or alteration to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Precautions to Be Taken in Handling and Storage:

Handling: Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow.

Storage: Store in a cool, well-ventilated area, out of direct sunlight. Store in a dry location away from heat. Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Store above 40°F.

Other Precautions:

Wear safety glasses, goggles or face shield. Use PVC or rubber coated gloves. If required to meet TLV requirements, wear self contained breathing apparatus. Use chemical apron. Have present eye wash and safety shower. Store in a cool dry area. Avoid temperature extremes.

Launder all clothing before reuse. Discard all contaminated gloves, boots, and other clothing that can not be properly cleaned.

Section VIII - Control Measures

OSHA Exposure Guidelines:

Component Limits

No components found

ACGIH Exposure Guidelines:

ACGIH Limits

No components found

Engineering Controls: General room ventilation is required. Use ventilation adequate to maintain safe levels.

Eye/Face Protection: Wear chemical safety goggles while handling this product. Wear additional eye protection such as a face shield when the possibility exists for eye contact with splashing or spraying liquid or airborne material.

Skin Protection: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Impervious, Chemical-resistant.

Respiratory Protection: None required under normal use. If vapors or mists are generated, wear: NIOSH/MSHA-Approved organic vapor/mist respirator. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

Other Protective Equipment: Eye-wash station, Safety shower.

General Hygiene Conditions: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

Work/Hygienic Practices:

Non-slip work shoes with an apron are good practices to follow.

--- START CLEAN --- STAY CLEAN --- END CLEAN = WORK SAFELY

Section IX - Documentary Information

Comments:

Section II Hazardous Material Section Percentage Key. If no hazardous chemicals are present then this section is not applicable.

Nil	-> 0.0% to 0.1%
Trace	-> 0.1% to 1.0%
Some	-> 1.0% to 5.0%
Minor Comp.	-> 5.0% to 25.0%
Substantial	->25.0% to 50.0%
Major Comp.	->50.0% to 100.0%

Substances listed in Section II are those identified as being at a concentration of 1% or greater or 0.1% if the substance is on the list of potential carcinogens cited in OSHA Hazard Communication Std.

If Section II does not contain any hazardous chemicals as presently defined in our applicable tables the message...

***** NO HAZARDOUS CHEMICALS *****

.... will appear in this section above.

Section X – Toxicological Information

LD50 Oral: No Data

LD50 Skin: No Data

LC50 Inhalation: No Data

Section XI – Ecological Information

Ecotoxicological Information:

The following ecotoxicity data is available for Defoamer-3110:

Daphnia magna LC₅₀ (48 hours) – 1803 mg/L

Chemical Fate Information: No data available.

Section XII – Transportation Information

DOT (Department of Transportation):

Proper Shipping Name: Not regulated by the DOT.

Section XIII – Regulatory Information

U.S. FEDERAL REGULATIONS:

TSCA Inventory Status: All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA Title III Section 311/312 Category:

Immediate (Acute) Health Hazard: No

Delayed (Chronic) Health Hazard: No

Fire Hazard: No

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

SARA Section 302/304/313/HAP:

Component CERCLA RQ SARA RQ SARA TPQ SARA 313 U.S. HAP

No components found.

***Prop 65 – May Contain the Following Trace Components**

Formaldehyde

Section XIV – Additional Information

MSDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

MSDS Prepared by: MW

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the best opinion on the subject as of the date on this sheet. However, no warranty, guarantee or representation, express or implied, is made by Guardian CSC as to the correctness or sufficiency of this information or the results to be obtained from the use thereof.