



# MATERIAL SAFETY DATA SHEET

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## SECTION 1: PRODUCT AND EMERGENCY CONTACT INFORMATION

**MATERIAL NAME:** DEFOAMER

**PRODUCT CODES:**

**EMERGENCY CONTACTS:** NORTH AMERICA (24 HRS) – CHEMTREC 1 (800) 424-9300  
OUTSIDE NORTH AMERICA (COLLECT) – 1 (703) 527-3887

**NON – EMERGENCY CONTACT:** 1 (740) 548-4100 (8:00 AM – 5:00 PM EST)

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

		SARA 313			ACGIH	
<u>CHEMICAL NAME</u>	<u>COMMON NAME</u>	<u>Y/N</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>TLV</u>	<u>CARCINOGEN</u>
BORIC ACID	***	N	10043-35-3	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	N/CLASS 4
TRIETHANOLAMINE	***	N	102-71-6	***	5 mg/m <sup>3</sup>	Y/CLASS 3
DIETHANOLAMINE	***	Y	111-42-2	***	2 mg/m <sup>3</sup>	N/CLASS 4
POLYETHYLENE GLYCOL	***	N	25322-68-3	***	***	N/CLASS 4
POLYALKYLENE GLYCOL	***	N	***	***	***	N/CLASS 4

COMPOSITION IS PROPRIETARY.

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## **SECTION 3: HAZARDS IDENTIFICATION**

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**ACUTE HEALTH EFFECTS:** MISTS MAY BE HAZARDOUS IN CASE OF EYE CONTACT (IRRITANT), INGESTION, SKIN (IRRITANT), INHALATION

**CHRONIC HEALTH EFFECTS:** NONE KNOWN

**CARCINOGENIC EFFECTS** – CLASSIFIED AS 4 (NOT CLASSIFIABLE FOR HUMAN OR ANIMAL)

**MUTAGENIC EFFECTS** – NOT AVAILABLE

**TETRAOGENIC EFFECTS** – NOT AVAILABLE

**DEVELOPMENTAL TOXICITY** – NOT AVAILABLE

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## **SECTION 4: FIRST AID MEASURES:**

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**EYE CONTACT:** IN CASE OF EYE CONTACT, CHECK FOR AND REMOVE CONTACT LENSES. FLUSH WITH TEPID WATER FOR AT LEAST 15 MINUTES WHILE HOLDING TH EYELIDS OPEN. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

**SKIN CONTACT:** CAREFULLY REMOVE CONTAMINATED CLOTHING, WASH EXPOSED AREA WITH SOAP AND WATER AND SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS OR WORSENS.

**INHALATION CONTACT:** IN CASE OF INHALATION, OBSERVE PERSONAL SAFETY FIRST, IF POSSIBLE MOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, ADMINISTER ARTIFICIAL RESPIRATION AND CALL FOR EMERGENCY MEDICAL ASSISTANCE.

**INGESTION CONTACT:** IN CASE OF INGESTION GET MEDICAL ATTENTION IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH IF UNCONCIOUS.

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## **SECTION 5: FIRE, EXPLOSION DATA AND MEASURES**

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**FLAMMABILITY:** NON-FLAMMABLE AS A MIXTURE

**AUTO-IGNITION:** NOT APPLICABLE AS A MIXTURE

**FLASH POINT:** NOT APPLICABLE AS A MIXTURE

**FLAMMABLE LIMITS: LEL:** NOT APPLICABLE      **UEL:** NOT APPLICABLE

**PRODUCTS OF COMBUSTION:** NOT AVAILABLE

**EXTINGUISHING MEDIA:** AS NEEDED FOR SURROUNDING FIRE

**EXPLOSION HAZARD:** NOT AVAILABLE

**SPECIAL FIRE FIGHTING PRECAUTIONS/INSTRUCTIONS:**

ALWAYS WEAR SELF-CONTAINED BREATHING APPARATUS ON POSITIVE PRESSURE. USE WATER TO KEEP MATERIAL IN OR NEAR FIRE COOL. WATER FROM FIRE FIGHTING SHOULD BE CONTAINED AND DISPOSED PER INSTRUCTIONS IN **SECTION 12**.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**IN CASE OF SPILL OR RELEASE:** ALWAYS WEAR RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT PER SECTION 8. PROVIDE ADEQUATE VENTILATION TO THE AREA OF THE SPILL. AVOID RAISING MISTS DURING THE CLEAN UP PROCESS. USE APPROPRIATE TOOLS AND TO CLEAN UP AS MUCH OF THE SPILL AS POSSIBLE AND PLACE LIQUIDS IN A WASTE DISPOSAL CONTAINER. COMPLETE THE CLEAN UP BY MOPPING UP THE REMAINING LIQUID AND DEBRIS. COLLECT ALL MOP WATER AND SPILLED MATERIAL AND DISPOSE OF IN ACCORDANCE TO FEDERAL, STATE OR LOCAL GUIDELINES FOR THIS MATERIAL.

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## **SECTION 7: HANDLING AND STORAGE**

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**HANDLING:** DO NOT BREATHE MISTS USE ONLY WITH ADEQUATE VENTILATION. ALWAYS WEAR THE CORRECT PERSONAL PROTECTIVE EQUIPMENT PER **SECTION 8**. AVOID ANY CONTACT WITH EYES. IF YOU HAVE ANY SYMPTOMS OF SICKNESS SEEK MEDICAL ATTENTION AND PROVIDE THE MEDICAL PERSONNEL WITH A COPY OF THIS MSDS. KEEP AWAY FROM INCOMPATIBLES LISTED IN **SECTION 10**

**STORAGE:** STORE THIS PRODUCT IN A COOL, DRY LOCATION APART FROM ANY OF THE INCOMPATIBLE CHEMICALS LISTED IN **SECTION 10**.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**ENGINEERING CONTROLS:** USE ADEQUATE VENTILATION TO PROVIDE FRESH AIR DURING GRINDING PROCESS. DO NOT GENERATE DUST, FUMES OR MIST.

### **PERSONAL PROTECTIVE EQUIPMENT (PPE) DURING GRINDING PROCESS**

**EYE PROTECTION:** SAFETY GLASSES WITH SIDE SHIELDS ARE RECOMMENDED.

**RESPIRATORY PROTECTION:** PROPER VENTILATION OR DUST RESPIRATOR

**SKIN PROTECTION:** LAB COAT OR APRON

### **PERSONAL PROTECTIVE EQUIPMENT IN CASE OF ACCIDENTAL SPILL**

**EYE PROTECTION:** DUST AND MIST PROTECTIVE GOGGLES OR FACE SHIELD

**RESPIRATORY PROTECTION:** PROPER VENTILATION OR NIOSH APPROVED RESPIRATOR

**SKIN PROTECTION:** FULL PROTECTIVE SUIT WITH APPROVED BOOTS AND GLOVES.

**FALL PROTECTION:** PROPER FOOTWEAR TO PREVENT SLIPS AND FALLS (SLIPPERY)

**IN CASE OF SPILL OBSERVE THE ACGIH TLV VALUES WHEN SELECTING THE APPROPRIATE PPE.**

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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<b>APPEARANCE:</b>	DARK BLUE/GREEN
<b>PHYSICAL STATE:</b>	LIQUID
<b>ODOR:</b>	SLIGHT AROMATIC
<b>SOLUBILITY:</b>	COMPLETE
<b>pH:</b>	> 9.5 (BASIC)
<b>BOILING POINT:</b>	NOT APPLICABLE
<b>MELTING POINT:</b>	NOT APPLICABLE
<b>VISCOSITY:</b>	> 1.2 (WATER = 1)
<b>FLASH POINT:</b>	NOT APPLICABLE
<b>AUTO IGNITION:</b>	NOT APPLICABLE

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## SECTION 10: STABILITY AND REACTIVITY

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<b>STABILITY:</b>	STABLE UNDER NORMAL CONDITIONS
<b>CONDITIONS TO AVOID:</b>	SEE MATERIALS TO AVOID
<b>MATERIALS TO AVOID:</b>	STRONG ACIDS, STRONG BASES, STRONG OXIDIZERS, NITRITES, AND METALLIC POTASSIUM
<b>HAZARDOUS DECOMPOSITION PRODUCTS:</b>	NOT AVAILABLE
<b>HAZARDOUS POLYMERIZATION:</b>	WILL NOT OCCUR

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## **SECTION 11: TOXICOLOGICAL INFORMATION**

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**ROUTES OF ENTRY:** INHALATION, INGESTION, ABSORPTION

**TOXICITY:** NOT AVAILABLE

**SPECIAL REMARKS ON ACUTE EFFECTS ON HUMANS:**

MILD SKIN IRRITATION, EYE IRRITATION, IRRITATION OF MUCOUS MEMBRANES  
LUNG INJURY FROM MISTS DURING GRINDING OPERATION

GENERALLY LOW HAZARD DURING NORMAL USE.

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## **SECTION 12: ECOLOGICAL INFORMATION**

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**ECOTOXICITY:** NOT AVAILABLE

**BOD AND COD:** NOT AVAILABLE

**CHRONIC ECOTOXICITY:** LONG TERM DEGRADATION PRODUCTS MAY BE HARMFUL.

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## **SECTION 13: DISPOSAL CONSIDERATIONS**

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DISPOSE OF UNUSED LIQUIDS ACCORDING TO FEDERAL, STATE OR LOCAL  
LAWS. EMPTY CONTAINERS MAY CONTAIN TRACE AMOUNTS OF LIQUID AND  
SHOULD BE TREATED AS POSSIBLY HARMFUL

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## **SECTION 14: TRANSPORT INFORMATION**

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**DOT CLASSIFICATION:** NOT DOT CONTROLLED (UNITED STATES)

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## SECTION 15: REGULATORY INFORMATION

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**29CFR 1910.1200 HAZ COM:** IRRITANT, EYES, RESPIRATORY, SKIN

**SARA 313:** NOT REPORTABLE

### HMIS (USA)

HEALTH HAZARD: 1

FIRE HAZARD: 0

REACTIVITY: 0

PPE: E

### NFPA (USA)

HEALTH HAZARD: 1

FIRE HAZARD: 0

REACTIVITY: 0

PPE: GLOVES, LAB COAT, BOOTS, GLASSES, RESPIRATOR

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## SECTION 16: OTHER INFORMATION

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LIQUID ICE™ IS SOLD FOR PROFESSIONAL USE ONLY.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PARTY PERSONS PROXIMATELY CAUSED BY THE MATERIAL IF REASONABLE SAFETY PROCEDURES ARE NOT ADHERED TO AS STIPULATED IN THE MATERIAL SAFETY DATA SHEET.

ADDITIONALLY, VENDOR ASSUMES NO RESPONSIBILITY FOR INJURY TO VENDEE OR THIRD PARTY PERSONS PROXIMATELY CAUSED BY ABNORMAL USE OF THIS MATERIAL EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED.

FUTHERMORE, VENDEE ASSUMES THE RISK IN USE OF THIS MATERIAL.

<u>CREATION DATE</u>	<u>CREATED BY</u>	
08/30/2011	D. ANDERSON	-
<u>REVISION DATE</u>	<u>REVISED BY</u>	<u>REASON FOR REVISION</u>
01/30/2013	D. ANDERSON	CONTENT REVIEW