



MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT AND EMERGENCY CONTACT INFORMATION

MATERIAL NAME: LIQUID ICE – COOLANT

PRODUCT CODES: 6 OZ. – C4861477001
1 GL. – C6341477001
5 GL. – C6341477005
6 OZ. x 24 CASE – C6341477024

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 ³	10 mg/m ³	N/CLASS 4
TRIETHANOLAMINE	***	N	102-71-6	***	5 mg/m ³	Y/CLASS 3
DIETHANOLAMINE	***	Y	111-42-2	***	2 mg/m ³	N/CLASS 4
POLYETHYLENE GLYCOL	***	N	25322-68-3	***	***	N/CLASS 4
POLYALKYLENE GLYCOL	***	N	***	***	***	N/CLASS 4
SEVERELY HYDROTREATED NAPHTHENIC OIL	***	N	64742-52-2	5 mg/m ³	5 mg/m ³	N/CLASS 4
PARAFFINIC DISTILLATES LIGHT	***	N	64741-44-2	5 mg/m ³	5 mg/m ³	N/CLASS 4
SODIUM SULFONATE MIXTURE	***	N	78330-12-8	5 mg/m ³	5 mg/m ³	N/CLASS 4
MONOETHANOLAMINE	***	N	141-43-5	3 ppm	3 ppm	N/CLASS 4
TRIAZINE BIOCIDE	***	N	4719-04-4	***	***	N/CLASS 4

COMPOSITION IS PROPRIETARY.

SECTION 3: HAZARDS IDENTIFICATION

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

SECTION 4: FIRST AID MEASURES:

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.

SECTION 5: FIRE, EXPLOSION DATA AND MEASURES

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**.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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.

SECTION 7: HANDLING AND STORAGE

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**.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

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.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY: NOT AVAILABLE

BOD AND COD: NOT AVAILABLE

CHRONIC ECOTOXICITY: LONG TERM DEGRADATION PRODUCTS MAY BE HARMFUL.

SECTION 13: DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

DOT CLASSIFICATION: NOT DOT CONTROLLED (UNITED STATES)

SECTION 15: REGULATORY INFORMATION

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

SECTION 16: OTHER INFORMATION

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