



Safety Data Sheet

Section 1 Product and Company Identification

Manufacturer

Blue Star Lubrication Technology®, LLC
915 N. Plum Grove Road, Suite C
Schaumburg, IL 60173
United States of America
Phone: 847-285-1888 Fax: 847-285-1894
Recommended Usage: Water Based Lubricant
Other Identifier: Coolant, Concentrate

Emergency Phone Numbers

847-285-1888 Normal Business Hrs.
USA & Canada Chemtrec 800-424-9300
International Chemtrec 703-527-3887

Product Name: Blue Cool® S2420

Section 2 Hazards Identification

Classification of the Mixture: Clear or slight hazy amber liquid. Ammonia like odor.

Most Important Hazards: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). May cause eye and skin burns. May cause skin sensitization with susceptible individuals. May cause respiratory tract irritation. Harmful if swallowed. May impair fertility. May cause harm to unborn child.

Hazard Classification:

Causes severe eye damage – Category 1 Causes severe skin burns – Category 1A
Reproductive toxicant – Category 1B May cause allergic skin reaction – Category 1A
Specific target organ toxicity – single exposure – Category 3 respiratory tract irritation

Signal Word: Danger!

Pictograms:



Precautionary Statements:

Inhalation - Avoid breathing dust/fume/gas/mist/vapors/spray. Keep container tightly closed. Use only with adequate ventilation.
Skin – Avoid contact with skin and clothing. Wash thoroughly after handling.
Eyes - Avoid contact with eyes. Wash thoroughly after handling.
Ingestion – Harmful if swallowed.

Quantity of Ingredients with Unknown Acute Toxicity: 0%

Section 3 Composition Information on Ingredients

Ingredient	WT %	CAS #
Ethanolamine	< 2	141-43-5
Boric Acid	< 3	10043-35-3
C12-14 alcohols, < 2.5 EO, sulfate, sodium salt	< 2	68891-38-3
Sodium 2-mercaptobenzotriazole	< 1	2492-26-4
Tolyltriazole, sodium salt	< 1	64665-57-2
Sodium-4-ethylenediaminetetracetate	< 1	64-02-8
Ethylidihydro-1H, 3H, 5Hoxazolo (3,4-c)-oxazole	< 2	7747-35-5

Section 4 First Aid Measures

Eyes: Flush eyes with running water for at least 15 minutes. If redness, burning, blurred vision or irritation persists, transport to nearest medical facility for additional treatment.

Skin: Flush skin with water, wash with soap and water. If irritation occurs, get medical attention. Remove contaminated clothing. Do not reuse clothing until cleaned. If material is injected under the skin, transport to the nearest medical facility for additional treatment. If redness, swelling, pain and/or blisters occur, transport to the nearest medical facility for additional treatment.

Ingestion: Do NOT induce vomiting and obtain medical attention. Have victim rinse mouth out with water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or tightness of the chest, is dizzy, vomiting or unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Section 5 Fire Fighting Measures

Flammable Properties:

Flash point: none (ASTM D56) Flammable limits in air: N/A Auto ignition temperature: N/A

Extinguishing media: CO₂, dry chemical, foam

Special firefighting measure:

The material as received will not support combustion, however its residues may; therefore, procedures for an oil fire should be followed. Use self-contained breathing apparatus. Use foam or dry chemical to extinguish fire. Water may be used only to keep surrounding containers cool. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.

Section 6 Accidental Release Measures

- Eliminate ignition sources and ventilate area.
- Absorb spillage with inert absorbent material.
- Contain spill and keep from entering waterways or sewers.
- Advise EPA/state agency if required.
- Use proper personal protective equipment for clean-up.
- Treat contaminated absorbent same as spilled product.

Section 7 Handling and Storage

Handling and Storage Precautions: Avoid heat, open flames, including pilot lights, and strong oxidizing agents. Use explosion-proof ventilation to prevent vapor accumulation. Ground all handling equipment to prevent sparking. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.

Work/Hygienic Practices: Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet. Launder contaminated clothing before reuse. Properly dispose of contaminated leather articles such as shoes or belts that cannot be decontaminated. Contaminated leather articles including shoes cannot be decontaminated and should be destroyed to prevent reuse.

Section 8 Personal Protection/ Exposure Controls

Engineering Controls: Use adequate ventilation to keep vapors and mists of this material below applicable standards. Recommended work place control parameters - based on ethanalamine STEL 6 ppm.

Respiratory Protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of the OSHA Respiratory Protection Standard, 29 CFR 1910.134.

Skin Protection: Use protective clothing that is chemically resistant to this product. Acceptable materials for gloves and aprons are: neoprene, nitrile rubber or viton.

Eye Protection: Use safety glasses or goggles. Have suitable eye wash water available.

Other/General Protection: For mists and vapors: Air Purifying, organic vapor cartridge, NIOSH approved respirator. Use self-contained breathing apparatus for environments with unknown concentrations or emergency situations.



Section 9 Physical and Chemical Properties

Color: Amber	Vapor Pressure: N/E °F	Solubility in Water: Complete
Appearance: Clear Liquid	% Volatile by Volume: N/E	Evaporation Rate (butyl acetate = 1): < 1
Odor: Ammonia like	Vapor Density (air = 1): N/E	Specific Gravity: 1.02
Boiling Point: > 212° F	Reactivity in Water: Non-reactive	
VOC (Concentrate) EPA Method 24: N/E		

Section 10 Stability and Reactivity

Stability: Stable **Conditions to avoid:** Sources of ignition. **Incompatibility:** Strong oxidizing or reducing agents.
Decomposition Products: Oxides of Carbon, Hydrogen and Nitrogen. **Hazardous Polymerization:** Will not occur.

Section 11 Toxicological Information

Likely Routes of Exposure: Inhalation, skin, eyes and ingestion.

Potential Health Effects:

Eye Effects: Corrosive. This mixture can cause irritation, redness, burns and tissue destruction.

Skin Effects: Corrosive. This mixture can cause burns, inflammation and significant irritation.

Oral Effects: Harmful if swallowed. May cause burns to mouth and esophagus. Gastrointestinal tract irritation, nausea and vomiting.

Inhalation Effects: Harmful if inhaled. May cause respiratory tract irritation.

Chronic Health Effects: Primary target organs following repeated exposure are respiratory tract, eyes, skin, lungs, liver and kidneys.

Mutagenicity: Negative

Carcinogenicity: This mixture does not contain any component greater than 0.1% that is listed as a carcinogenic or a potential carcinogen by the National Toxicology Program, by the I.A.R.C. monographs or by OSHA.

Reproductive Effects: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Reproductive Toxicant Category 1B. Suspected of causing harm to unborn child, infertility and testicular damage from repeated ingestion of boric acid.

Teratogenicity: Negative

Sensitization: Potential Skin Sensitizer Category 1A. Sodium 2-mercaptobenzothiazole may cause allergic skin reaction.

Toxicological Data:

ATE oral is > 6,000 mg/kg

ATE dermal is > 6,000 mg/kg

ATE inhalation (vapor) is estimated at 49.83 mg/L/4 hour

ATE inhalation (mist/aerosol) is estimated at 2.35 mg/L/4 hour

Section 12 Ecological Information

Not classified due to inadequate data available on this mixture. Recommend avoidance of release to the environment.

Section 13 Disposal Considerations

Avoid release to the environment. Dispose in a safe manner in accordance with national, state and local regulations. Not a RCRA hazardous waste if uncontaminated. If "used" RCRA criteria must be determined. Dispose of container by recycling or if permitted incineration.



Section 14 Transportation Information

Proper Shipping Name: Detergents, Soaps.
Shipping Class: 55
Dot Identification Number: N/A
Dot Shipping Label: Not regulated by DOT.
TDG Classification: Not controlled under TDG (Canada).

Section 15 Regulatory Information

U.S. Federal Regulatory Information:

SARA 302 Threshold Planning Quantity: N/A SARA 304 Reportable Quantity: N/A

SARA 311 Categories:

Acute Health Effects:	Yes
Chronic Health Effects:	Yes
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

EPA/TSCA Inventory: The components of this product are listed on the EPA/TSCA inventory of chemicals.

EPA Hazard Classification Code: Not applicable

CERCLA: No chemicals in this product are subject to the reporting requirements of CERCLA.

SARA Title III - Section 313 Supplier Notification: No Chemicals in this product exceed the DE Minimus reporting level established by SARA Title III, Section 313 and 40 CFR 372.

WHMIS Classification: WHMIS controlled. Class D; Division 2, Subdivision B: otherwise causing toxic effects.

Other Regulations: All components of this formulation are listed on the CEPA-DSL (Domestic Substance List)

Section 16 Other Information

NFPA Hazard Rating:

Health:	2	Slight
Flammability:	1	Negligible
Reactivity:	0	Negligible

SDS Dated: 3/25/2015

*Threshold Limit Value/Personal Exposure Limit

N/A = Not Applicable

N/E = Not Established

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