

Section 1. PRODUCT AND COMPANY IDENTIFICATION

SDS ID: 40-23970-0000-00 Rev. 8

Product Name: Champion / Luberfiner Liquid Supplemental Coolant Additives (SCA's)

Catalog Numbers: **920021 (16 ounce bottle)** **920064 (1/2 gallon bottle)**
 920005 (5 gallon pail) **920055 (55 gallon drum)**

Manufacturer:
Champion Laboratories, Inc.
200 South 4th Street
Albion, IL 62806

TRANSPORTATION EMERGENCY PHONE NUMBER (Chemical Spills and Transport Accidents only):
CHEMTREC 1-800-424-9300 (in the US) +1-703-527-3887 for International Calls

SDS Date of Preparation: 5/25/16

Product Use: Cooling system additive for trucks

Section 2. HAZARDS IDENTIFICATION

GHS / HAZCOM 2012 Classification:

Health	Physical
Skin Sensitization Category 1 Eye Corrosion Category 1 Toxic to Reproduction Category 2	Not Hazardous

Label Elements



DANGER!

- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H361 Suspected of damaging fertility or the unborn child.

Prevention:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust, fume, gas, mist, vapors or spray.
- P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves and eye protection.

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Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container in accordance with local and national regulations

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS
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Component	CAS No.	Amount
Sodium Nitrite	7632-00-0	1-5
Sodium mercaptobenzothiazole	2492-26-4	1-5
Disodium tetraborate, anhydrous	1330-43-4	<1

The exact concentrations are a trade secret.

Section 4. FIRST AID MEASURES

Eye: Immediately flush eyes with water for 20 minutes several minutes, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash with soap and water. If irritation or rash develops, get medical attention. Launder clothing before reuse.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person. Get medical attention.

Inhalation: Remove the victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Most Important Symptoms: Causes severe eye irritation to burns. May cause permanent damage. May cause skin. May cause allergic skin reaction. Inhalation of mists may cause upper respiratory tract irritation. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause reproductive and developmental effects based on animal data.

Indication of Immediate Medical Attention and Special Treatment, If Needed: Immediate medical attention is required if contact with eyes occurs.

Notes to Physicians: The principal toxic effects of sodium nitrite poisoning are vasodilation and/or methemoglobinemia. Hypotension with syncope and tachycardia are common findings. Coronary vasospasm due to acute withdrawal may be seen. Paradoxical bradycardia may occur rarely. Coronary ischemia and cerebrovascular disease can occur due to severe hypotension. Immediate life support measures should be provided because of associated hypotension, seizures, and methemoglobinemia-induced anoxia. Immediately contact a poison center or hospital emergency department for treatment advice.

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Section 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use any media that is appropriate for the surrounding fire. Cool fire exposed containers with water.

Specific Hazards Arising From the Chemical: Containers heated by fire may burst. Hazardous decomposition products may include oxides of carbon, nitrogen, sodium, borates and potassium.

Special Fire Fighting Procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for fires in areas where chemicals are used or stored.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Keep unnecessary or unprotected personnel away. Wear appropriate protective clothing and equipment (See Section 8).

Environmental precautions: Avoid release to the environment. Report spill as required by local and federal regulations.

Methods and Materials for Containment / Cleanup: Collect with absorbent material and place in appropriate, labeled container for disposal.

Section 7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with eyes. Avoid contact with skin and clothing. Avoid breathing vapors or mists. Wash thoroughly with soap and water after use. Use with adequate ventilation. Keep containers closed when not in use.

Do not reuse empty containers unless properly cleaned. Empty containers retain product residue and may be dangerous.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from acids and other incompatible materials. Keep containers closed when not in use.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical	Exposure Limit
Sodium Nitrite	None Established
Sodium mercaptobenzothiazole	None Established
Disodium tetraborate, anhydrous	2 mg/m ³ ACGIH TLV (Inhalable)
	6 mg/m ³ ACGIH STEL (Inhalable)

Appropriate Engineering Controls: General ventilation is adequate for normal use.

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Personal Protective Equipment

Respiratory Protection: None normally needed. For operations where exposure limits are exceeded, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator is recommended. Equipment selection depends on contaminant type and concentration. Select and use in accordance with 29 CFR 1910.134 and good industrial hygiene practice. For firefighting, use self-contained breathing apparatus.

Skin Protection: Chemical resistant gloves such as neoprene or PVC should be worn to avoid skin contact.

Eye Protection: Splash-proof goggles should be worn to prevent eye contact.

Other Protective Equipment / Clothing: Appropriate protective clothing as needed to minimize skin contact. An eye wash should be available in the immediate work area.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red clear liquid	Odor: Mild
Odor Threshold: Not Determined	pH: 10.8 – 11.8
Melting/Freezing Point: 32°F (0°C)	Boiling Point/Range: Not Determined
Flashpoint: Not flammable	Evaporation Rate: Not Determined
Flammability (Solid, Gas): Not applicable	Flammable Limits:LEL: Not Determined UEL: Not Determined
Vapor Pressure: 24 kPa	Vapor Density (Air = 1): ≤ 1
Relative Density: 1.042 – 1.064	Solubility In Water: Complete
Partition Coefficient (n-octanol/water): Not determined	Autoignition Temperature: Not Determined
Decomposition Temperature: Not determined	Viscosity: Not Determined

Section 10. STABILITY AND REACTIVITY

Reactivity: Normally unreactive

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None expected under normal use conditions.

Conditions to Avoid: None known.

Incompatibility Materials: Avoid acids and bases.

Hazardous Decomposition Products: Decomposition products may include oxides of carbon, nitrogen, sodium, borates and potassium.

Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Acute Hazards:

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Swallowing sodium nitrite causes the formation of methemoglobin in the blood which may result in cyanosis, lowering of blood pressure, rapid heartbeat and severe headache. Doses as low as 14 mg/kg have been reported to cause toxic effects.

Inhalation: May cause irritation of the nose and throat, particularly from mists.

Eye Contact: Causes severe eye irritation or burns. Permanent damage may occur.

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Skin Contact: Prolonged skin contact may cause redness and itching. This product is not corrosive based on test results of similar products. May cause allergic skin reaction (sensitization).

Chronic Effects: Borate compounds cause adverse reproductive effects in laboratory animals. In animal ingestion studies in several species, high doses of borates were found to cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effects on reproduction.

Carcinogenicity Listing: None of the components are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values:

Calculated ATE for Product: ATE Oral: >57,000 mg/kg

Sodium Nitrite: Oral Rat LD50 - 180 mg/kg
Inhalation Rat LC50 - 5.5 mg/m³ /4hr.

Disodium tetraborate: Oral Rat LD50 - 2660 mg/kg
Skin Rabbit LD50 - >1055 mg/kg
Inhalation Rat LC50 - >2 mg/m³ /4hr.

Sodium mercaptobenzothiazole: Oral Rat LD50 - 4350 mg/kg
Skin Rabbit LD50 - >7940 mg/kg

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium Nitrite: LC50: Western mosquitofish, female 1.5 mg/L/ 96 hr.
LC50: Daphnia magna 8.3 mg/L /96 hr.

Disodium tetraborate: LC50 Gambusia affinis (Western mosquitofish) 104 mg/L/96 hr.
LC50 Daphnia magna (Water flea) 141 mg /L/48 hr.

Sodium mercaptobenzothiazole: LC50 Oncorhynchus mykiss 0.73 mg/L/96 hr
LC50: Daphnia magna 0.71 mg/L /48 hr
EC50: Pseudokirchnerella subcapitata 0.5 mg/L/72 hr

Persistence and Degradability: Sodium nitrite does not volatilize, and is likely to remain in water until consumed by plants or other organisms.

Bioaccumulative Potential: Disodium tetraborate has a BCF 121. This suggests the potential for bioconcentration in aquatic organisms is low.

Mobility in Soil: Disodium tetraborate is absorbed by mineral portion of soil. Slowly leached.

Other Adverse Effects: May be harmful to aquatic life with long lasting effects.

Section 13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

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Section 14. TRANSPORT INFORMATION

DOT		Not Regulated			None
TDG		Not Regulated			None
IMDG		Not Regulated			None
IATA		Not Regulated			None

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form.

Special precautions: None known

Section 15. REGULATORY INFORMATION

CERCLA: Spills of this product over the RQ (reportable quantity) must be reported to the National Response Center. The RQ for the product, based on the RQ for Sodium nitrite (5% maximum) of 100 lbs, is 2,000 lbs. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65: This product contain the flowing chemicals known to the State of California to cause cancer or reproductive toxicity:

Phenolphthalein 77-09-8 <0.1% Cancer

SARA Hazard Category (311/312): Chronic Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):

Sodium Nitrite 7632-00-0 1-5%

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

Canadian Environmental Protection Act: All of the ingredients are listed on the Canadian Domestic Substances List.

Section 16. OTHER INFORMATION

Ratings for filter contents:

NFPA Rating: Health = 3. Fire = 0 Instability = 0

HMIS Rating: Health = 3* Fire = 0 Physical Hazards = 0

* Indicates chronic health hazard

Revision Summary: New Classification based on test data. All Sections revised.

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SDS Date of Preparation / Revision: May 25, 2016

Disclaimer of Liability:

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