

Section 1. PRODUCT AND COMPANY IDENTIFICATION

SDS ID: 40-30000-0000-00 Rev. 4

Product Name: Champion / Luberfiner Spin-on Coolant Filter with Supplemental Coolant Additives (SCA's)

Catalog Numbers: LFW6500 LFW6501 LFW6502 LFW2125

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: 12/15/14

Product Use: Cooling system filter for trucks




Section 2. HAZARDS IDENTIFICATION

GHS / HAZCOM 2012 Classification:

This product is a manufactured article (truck coolant filter) containing solid tablets. The filter unit is sealed so no contact with the contents occurs during normal handling or use. No adverse effects are expected with normal handling of the metal filter. Contact with the tablets may cause adverse effects and are classified as follows:

Health	Physical
Acute Toxicity Category 3 Eye Corrosion Category 1 Skin Corrosion Category 1 Skin Sensitizer Category 1 Specific Target Organ Toxicity – Single Exposure Category 3 (Respiratory irritation)	Not Hazardous

Label Elements

DANGER!

H301 Toxic if swallowed.
 H314 Causes severe skin burns and eye damage.
 H317 May cause an allergic skin reaction.

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H335 May cause respiratory irritation.

Prevention:

P260 Do not breathe dusts or mists.

P264 Wash exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection, and face protection.

Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P310 Immediately call a POISON CENTER or doctor

P363 Wash contaminated clothing before reuse.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor.

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.

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

Component	CAS No.	Amount
Sodium Nitrite	7632-00-0	30-60
Mercaptobenzothiazole	149-30-4	10-30
Disodium Trioxosilicate	6834-92-0	10-30
Sodium Metaborate, Anhydrous	7775-19-1	10-30
Sodium Nitrate	7631-99-4	5-10
Disodium Tetraborate, Anhydrous	1330-43-4	1-5

The exact concentrations are a trade secret.

Section 4. FIRST AID MEASURES

Eye: None expected with normal use. If contact occurs with filter tablets, immediately flush eyes with large quantities of water for at least 20 minutes, holding the eyelids apart. Get immediate medical attention.

Skin: None expected with normal use. If contact with the filter tablets occurs, remove contaminated clothing. Immediately flush skin for at least 20 minutes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes)

Ingestion: None expected with normal use. If filter tablets or dust is swallowed, DO NOT INDUCE

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VOMITING. Call local poison control center or go to an emergency department. If person is conscious, have them rinse their mouth with water. Never give anything by mouth to or induce vomiting in an unconscious or drowsy person. Get immediate medical attention.

Inhalation: None expected with normal use. If dust from the filter tablets is inhaled, immediately remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Most Important Symptoms: Corrosive. May cause eye and skin burns. Harmful or fatal if inhaled or ingested. May cause nitrite poisoning. Inhalation of dust may cause respiratory irritation, coughing, nose bleeds, sore throat, shortness of breath and tightness in the chest.

Indication of Immediate Medical Attention and Special Treatment, if Needed: Seek immediate medical attention for any contact with filter contents.

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.

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: Product contains an oxidizer which may enhance combustion. This hazard is not expected from metal filters. Thermal decomposition of tablets may release carbon, nitrogen and metal oxides.

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: If filters are damaged and tablets are released, evacuate spill area and keep unprotected personnel away. Remove all combustible or flammable materials from spill area if it is safe to do so. Wear appropriate protective clothing as described in Section 8.

Methods and Materials for Containment / Cleanup: Collect filters and place into appropriate container for disposal. Pick up tablets and place into container. Vacuum up remaining dust. Do not use combustible absorbents or towels. If spill occurs outdoors, cover the spill to prevent wind from spreading dust to the surrounding area. Report releases as required by local, state and federal authorities.

Section 7. HANDLING AND STORAGE

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Precautions for Safe Handling: Wash thoroughly with soap and water after handling. Protect filters against physical damage.

If filters are damaged and tablets are released, avoid contact with the eyes, skin and clothing. Avoid breathing dusts. Wear protective clothing and equipment. Wash thoroughly with soap and water after handling. Keep tablets or dust away from all flammable or combustible materials such as solvents, oil, paper, cloth rags, etc.

Conditions for Safe Storage, Including Any Incompatibilities: Store filters in a dry, well ventilated area away from excessive heat, sources of ignition and combustible materials.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical	Exposure Limit
Sodium Nitrite	None Established
Mercaptobenzothiazole	None Established
Disodium Trioxosilicate	None Established
Sodium Metaborate, Anhydrous	None Established
Sodium Nitrate	None Established
Disodium Tetraborate, Anhydrous	2 mg/m ³ TWA ACGIH TLV (Inhalable) 6 mg/m ³ STEL ACGIH TLV (Inhalable)

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

Personal Protective Equipment

Respiratory Protection: None needed for normal use. In situations where contact with the tablets is likely and the exposure limits are exceeded, a NIOSH approved particulate respirator (N95 or better filters) may be worn. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: None needed for normal use. In situations where contact with the tablets is likely, wear impervious gloves such as neoprene.

Eye Protection: None needed for normal use. In situations where contact with the tablets is likely, chemical safety goggles are recommended.

Other Protective Equipment / Clothing: None needed for normal use. In situations where contact with the tablets is likely, wear impervious clothing as needed to prevent contact. A safety shower and eyewash should be available in the immediate work area.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Note: The physical properties described below are for the tablets contained within the filters.

Appearance: Solid coated yellow tablet.

Odor: Odorless.

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Odor Threshold: Not applicable	pH: 10.5 Conc. in a 1% solution
Melting/Freezing Point: Not applicable	Boiling Point/Range: Not applicable
Flashpoint: Not applicable	Evaporation Rate: Not applicable
Flammability (Solid, Gas): Not applicable	Flammable Limits: LEL: Not applicable UEL: Not applicable
Vapor Pressure: Not applicable	Vapor Density (Air = 1): Not applicable
Relative Density: 0.88	Solubility In Water: Coating: Insoluble. Tablet: Soluble
Partition Coefficient (n-octanol/water): Not determined	Autoignition Temperature: Not applicable
Decomposition Temperature: Not determined	Viscosity: Not applicable

Section 10. STABILITY AND REACTIVITY

Reactivity: Tablets may ignite in contact with organic materials.

Chemical Stability: Stable under normal storage and handling conditions.

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

Conditions to Avoid: High temperatures, and organic materials.

Incompatibility Materials: The tablets are incompatible with strong acids, reducing agents, metals and moisture. Tablets may ignite in contact with organic materials.

Hazardous Decomposition Products: Thermal decomposition of tablets may release carbon, nitrogen and metal oxides.

Section 11. TOXICOLOGICAL INFORMATION

Potential Health Effects:

Acute Hazards:

Ingestion: None expected under normal use conditions. Ingestion of tablets may cause gastrointestinal irritation, dizziness, nausea, vomiting, bloody diarrhea, low blood pressure, convulsions, increase in urine output, and collapse. Overexposure to sodium nitrite may cause nitrite poisoning with symptoms including nausea, dizziness, vertigo, vomiting, collapse, cyanosis, abdominal pain, methemoglobinemia, rapid heartbeat, irregular breathing, coma, convulsions, circulatory collapse and death.

Inhalation: None expected under normal use conditions. Inhalation of tablet dust may cause severe respiratory irritation with symptoms of coughing, nose bleeds, sore throat, shortness of breath and tightness in the chest. Overexposure to sodium nitrite may occur with symptoms similar to those listed under ingestion.

Eye Contact: None expected under normal use conditions. Contact with tablets may cause eye burns or damage; and severe irritation with redness, tearing and pain.

Skin Contact: None expected under normal use conditions. Contact with tablets may cause burns and severe irritation with redness, itching and pain. Sodium nitrite and disodium tetraborate may be absorbed through the skin causing effects similar to those described under inhalation and ingestion.

Chronic Effects: None expected under normal use conditions. Prolonged or repeated exposure to tablets may cause mild gastroenteritis, dermatitis, eczema, headache, mental impairment, loss of hair, bronchitis, laryngitis, conjunctivitis, kidney and liver damage and anemia. Disodium tetraborate, and sodium nitrate have been found

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to cause adverse reproductive effects and/or birth defects in studies with laboratory animals. Sodium tetraborate has tested positive for mutagenicity in some test systems.

Carcinogenicity Listing: None of the components of these products at 0.1 % or greater is listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Acute Toxicity Values:

Calculated ATE for Product:	ATE Oral: 278 mg/kg
Sodium Nitrite:	Oral Rat LD50 - 180 mg/kg Inhalation Rat LC50 - 5.5 mg/L/4 hr.
Mercaptobenzothiazole:	Oral Rat LD50 - 3,800 mg/kg Skin Rabbit LD50 - >7,940 mg/kg Inhalation Rat LC50 - >1.27 mg/L /4 hr.
Disodium Trioxosilicate:	Oral Rat LD50 - 1153 mg/kg Skin Rat LD50 > 5000 mg/kg Inhalation Rat LC50 - >2.06 mg/L/4 hr.
Sodium Metaborate, Anhydrous:	Oral Rat LD50 - >2,600 mg/kg Skin Rabbit LD50 > 2,000 mg/kg Inhalation Rat LC50 - >2.04 mg/L/4 hr.
Sodium nitrate:	Oral Rat LD50 - 3430 mg/kg Skin Rabbit LD50 - >5000 mg/kg
Disodium Tetraborate, Anhydrous:	Oral Rat LD50 - 2660 mg/kg Skin Rabbit LD50 - >1055 mg/kg Inhalation Rat LC50 - >2 mg/m3 /4 hr.

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium Nitrite:	LC50: Western mosquitofish, female 1.5 mg/L/ 96 hr. EC50: Daphnia magna 8.3 mg/L /96 hr.
Mercaptobenzothiazole:	LC50 Oncorhynchus mykiss (Rainbow trout) 0.73 mg/L/96 hr. EC50: Daphnia Magna: > 0.71 mg/L/48 hr.
Disodium Trioxosilicate:	LC50: Brachydanio rerio 210 mg/L/96 hr.
Sodium Metaborate, Anhydrous:	LC50 Oncorhynchus kisutch (Chinook salmon) 447 mg/L/96 hr. EC50: Daphnia Magna: 133 mg/L/48 hr.

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Sodium Nitrate: LC50 Oncorhynchus my kiss (Rainbow trout) 1658 mg/L/96 hr.
LC50 Daphnia magna (Water flea) 3581 mg/L /48 hr.

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

Persistence and Degradability:

Sodium Nitrite: Does not volatilize, and is likely to remain in water until consumed by plants or other organisms.
Mercaptobenzothiazole: Not inherently biodegradable
Sodium Nitrate: Does not volatilize, and is likely to remain in water until consumed by plants or other organisms.

Bioaccumulative Potential:

Mercaptobenzothiazole: Is not Bioaccumulative.
Disodium Tetraborate, Anhydrous: BCF 121 this BCF suggests the potential for bio concentration in aquatic organisms is low.

Mobility in Soil:

Mercaptobenzothiazole: Medium to low.
Disodium Tetraborate, Anhydrous: Adsorbed 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.

Section 14. TRANSPORT INFORMATION

U.S. DOT HAZARD CLASSIFICATION:

Packages with less than 166 lbs of pellets can be shipped as unregulated.

Packages with 166 lbs pellets and greater:

UN3077 Environmentally hazardous substance, solid, n.o.s.(sodium nitrite), 9 PG III RQ Limited Quantity

Note: Until: 12/31/2020 Consumer commodity, ORM-D is also acceptable.

DOT MARINE POLLUTANTS: This product does not contain Marine Pollutants as defined in 49 CFR171.8.

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IMDG CODE SHIPPING CLASSIFICATION:

UN3077 Environmentally hazardous substance, solid, n.o.s. (sodium nitrite, mercaptobenzothiazole), 9 PG III
Marine Pollutant

CANADIAN TDG CLASSIFICATION: Not Regulated

IATA INTERNATIONAL AIR TRANSPORT ASSOCIATION: Not Regulated

Section 15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 166 lbs. based on the RQ for Sodium Nitrite of 100 lbs. Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

CALIFORNIA PROPOSITION 65:

Formaldehyde	CAS: 50-00-0	At less than 0.1%
Ethylene Oxide	CAS: 75-21-8	At less than 0.1%

SARA Hazard Category (311/312): Acute 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	30-60%
Mercaptobenzothiazole	149-30-4	10-30%

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

CANADA: This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

Canadian WHMIS Classification: Class D - Division 1 - Subdivision B - (Toxic material causing immediate and serious toxic effects), Class D-2-B (Toxic material causing other toxic effects), Class E (Corrosive)



Canadian WHMIS Hazard Symbol:

Section 16. OTHER INFORMATION

Ratings for filter contents:

NFPA Rating: Health = 3.	Fire = 0	Instability = 0
HMIS Rating: Health = 3	Fire = 0	Physical Hazards = 1

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Revision Summary: All Sections – conversion to Hazcom 2012 classification and labeling and format.

SDS Date of Preparation / Revision: December 15, 2014

Disclaimer of Liability:

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