SAFETY DATA SHEET

CONFORMS TO OSHA HAZARD COMMUNICATION STANDARD (HCS) 29 CFR 1910.1200

Revision Date 6/1/2015
Supersedes Date 1/8/2014

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: **Food-Grade Chain Lube**

Part number: 575054

1.2 Identified uses: Lubricant where there may be incidental food contact

Uses advised against: Not intended for direct food contact. Other uses advised against may be specified elsewhere in this SDS.

1.3 Supplier:
John Bean Technologies Corporation
1660 Iowa Avenue, Suite 100
Riverside, CA 92507 USA

Email contact:

Non-emergency contact: Phone: Riverside, CA 951-222-2300 Visalia, CA 559-651-8300

1.4 Emergency telephone: CHEMTREC: North America 800-424-9300
International +01-703-527-3887 Collect

SECTION 2. HAZARDS IDENTIFICATION

2.1 GHS Classification:

Hazard class(es): Aquatic Chronic Cat. 3

2.2 Label elements

PIctograms: Not applicable

Signal word: Warning

Hazard-determining components of labeling: Not applicable

Hazard statements: Pressurized container: May burst if heated. Harmful to aquatic life with long lasting effects.

Precautionary statements: Keep away from heat/ sparks/ open flames/ hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Avoid release to the environment. Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Additional information: 21.0 % by mass of the contents are flammable

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable
vPvB: Not applicable

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Composition

Components	%	CAS #	Impurities
Propane	10-25	74-98-6	None
Butane	1-5	106-97-8	None
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, calcium salts	<1	148520-84-7	None
Zinc oxide	<1	1314-13-2	None
Sulfonic acids, petroleum, calcium salts	<1	61789-86-4	None
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	<1	156105-31-6	None
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	<1	80939-62-4	None

3.2 Additional information Not applicable

SECTION 4. FIRST AID MEASURES

4.1 First aid measures

Eye contact: Remove contact lenses, if wearing, and flush eyes with water for at least 15 minutes or until irritation subsides. If irritation persists, consult a physican.

Skin contact:

reuse and discard oil-soaked shoes. If irritation persists, consult a physician.

Ingestion: If swallowed, DO NOT induce vomiting. As a precaution, give the person a glass of water to drink and seek medical attention. Never give anything by mouth to an unconscious person. Consult a physician.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed. No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment available. No further relevant information available.

4.4 General information No further relevant information available.

SECTION 5. FIREFIGHTING MEASURES

5.1 Suitable extinguishing media: Extinguishing media include dry chemical, alcohol foam, and carbon dioxide. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.

Unsuitable extinguishing media: Do not use direct stream of water.

5.2 Special hazards: Pressure build-up due to heat exposure may cause containers to rupture. Use water spray to keep containers cool.

5.3 Advice for firefighters: Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined space or as otherwise needed.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Prevent entry into sewers, waterways or confined areas by diking or impounding. Dike far ahead of spill for later recovery and disposal. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.

6.3 Containment and clean-up: **Land spill:** Stop leak if you can do so without risk. Recover free product using non-sparking tools. Add sand, earth, or other suitable absorbent material to the spill area. Recover by pumping or with suitable absorbents. Dispose of in accordance with national and/or local regulations relating to waste disposal.
Water spill: Stop leak if you can do so without risk. Confine the spill immediately with booms. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

6.4 Reference to other sections: See Section 7 for information on safe handling. See Section 8 for information on personal protective equipment.

SECTION 7. HANDLING AND STORAGE

7.1 Handling: Keep away from heat and direct sunlight. Keep away from ignition sources - Do not smoke. Protect against electrostatic discharges. Ensure good ventilation/exhaustion at the workplace.

See Section 8.2 for information on occupational hygiene.

7.2 Storage: Store in a cool, dry place in tightly sealed containers. Store out of direct sunlight. Observe official regulations on storing packagings with pressurized containers. Store away from oxidizing agents. Do not store near heat, sparks, open flame, pilot lights, static electricity, or other sources of ignition. Do not store where temperature may exceed 49°C (120°F). Rotate stock.

See Section 10 for information on conditions and materials to avoid.

7.3 End Uses: Refer to Section 1 for identified uses, and uses advised against.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Workplace exposure limits:

Components	Exposure limit and source
Propane	Not available
Butane	Long-term value = 1810 mg/m³, 750 ppm Short-term value = 1450 mg/m³, 600 ppm
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available

Zinc oxide	Not available
Sulfonic acids, petroleum, calcium salts	Not available
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	Not available
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	Not available

8.2 Exposure controls

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapors below their respective occupational exposure limits.

Ventilation: Use in a well-ventilated area. See Engineering Controls.

Personal hygiene: Wash skin thoroughly after contact, before breaks and meals and at the end of the work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

Eye protection: Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.

Hand protection: Any lined non-permeable rubber gloves.

Respiratory protection: Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-approved air-supplied respirator is advised in absence of proper environmental control.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Physical and chemical properties

Appearance / odor:	Clear liquid / solvent odor	**Vapor pressure:**	Not available
Physical state:	Liquid and compressed gas in aerosol can	**Vapor density:**	Not available
Odor threshold:	Not available	**Relative density:**	Not available
pH:	Not available.		
Melting / freezing point:	Not available	**Solubility in water:**	Not available
Boiling point / range:	Not available	**Partition coefficient (n-octanol/water):**	Not available
Flash point:	Not available. Product is not classified as a flammable aerosol.	**Autoignition temperature:**	Not available
Evaporation rate:	Not available	**Decomposition temperature:**	Not available
		Viscosity:	Not available
Upper flammability limit:	Not available		
Lower flammability limit:	Not available	**Explosive properties:**	Not applicable
Percent Volatile:	Not available	**Oxidizing properties:**	Not an oxidizer

9.2 Other information No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: See sub-sections below.

10.2 Chemical stability: This material is stable under normal conditions.

10.3 Possibility of hazardous reactions: Hazardous reactions are not expected to occur.

10.4 Conditions and materials to avoid: Keep away from heat and direct sunlight. Avoid strong oxidizers, strong alkalis and strong acids.

10.5 Hazardous decomposition products: Carbon monoxide and carbon dioxide.

11.1 Information on toxicological effects

Acute toxicity / LD_{50} and LC_{50} of ingredients:

Components	LD_{50}	LC_{50}
Propane	Not available	Not available
Butane	Not available	658 mg/l/4h (inhalation, rat)
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available	Not available
Zinc oxide	>5000 mg/kg (oral, rat)	Not available

Sulfonic acids, petroleum, calcium salts	>5000 mg/kg (oral, rat)	Not available
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	Not available	Not available
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	Not available	Not available

Routes of exposure: Eyes, skin, ingestion and inhalation

Other information: Not applicable

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Components	$L(E)C_{50}$
Propane	Not available
Butane	Not available
Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available
Zinc oxide	1.1 mg/l/96h [Oncorhynchus mykiss (rainbow trout)]
Sulfonic acids, petroleum, calcium salts	>100 mg/l/48h [Daphnia magna (Water flea)]
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	Not available
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	Not available

Toxicity notes: Not available

12.2 Persistence and degradability: Not available

12.3 Bioaccumulative potential: Not available

12.4 Mobility in soil: Not available

12.5 Persistence, bioaccumulation and toxicity for substance(s): This product is not, or does not contain, a substance that is a PBT or a vPvB.

12.6 Other adverse effects: No adverse effects are expected.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Consult national or regional authorities for proper disposal and reporting procedures.

SECTION 14. TRANSPORTATION INFORMATION

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

	Proper Shipping Name:	UN Number:	Hazard Class:	Packing Group:	Remarks:
U.S. D.O.T.	Aerosols, non-flammable	1950	2.2	None	Refer to Code of Federal Regulations, Title 49 (49 CFR) for additional information on provisions, packaging, and Limited Quantity exceptions.
ADR/RID	Aerosols, non-flammable	1950	2.2	None	Tunnel Restriction E
IMDG	Aerosols, non-flammable	1950	2.2	None	None
IATA	Aerosols, non-flammable	1950	2.2	None	None

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture

U.S. Federal Regulations:

SARA Section 302 Extremely Hazardous Substances This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:
None

SARA Section 304 CERCLA Hazardous Substances Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is subject to reporting to the National Response Center under CERCLA:
None

SARA Section 313 Toxic Chemicals	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: None
TSCA Inventory	All components of this material are on the U.S. TSCA Inventory.
California Proposition 65 Status	This product does not contain chemical(s) known to the State of California to cause birth defects or other reproductive harm.
California Proposition 65 Listed Components	None

International Regulations:

European Union:	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. A Chemical Safety Assessment has not been carried out.
Canada	All components are in compliance with the Canadian Environmental Protection Act. This product has been classified in accordance with the hazard criteria of the CPR and this SDS contains all the information required by CPR.
Japan MITI	Not available
Australia	Not available
Switzerland	Not available

SECTION 16. OTHER INFORMATION

Sections Revised:	New SDS format
Revision Date:	6/1/2015

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*** END OF SDS ***