



# SAFETY DATA SHEET


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

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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:** H1 Food-Grade Grease # 2  
**Part number:** 575066
- 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 (JBT)  
 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):** Eye Irritation Cat. 2A; Skin Sensitization Cat. 1; Aquatic Acute Cat. 3 ; Aquatic Chronic Cat. 3
- 2.2 Label elements**  
**Pictograms:** 
- Signal word:** Warning
- Hazard-determining components of labeling:** Not required per OSHA Hazard Communication Standard (HCS 2012).
- Hazard statements:** May cause an allergic skin reaction. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
- Precautionary statements:** Avoid breathing fume/ mist/ vapors/ spray. Wash skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. Wash contaminated clothing before reuse. Dispose of contents/ container to an approved waste disposal plant.
- Additional information** Not applicable
- 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
	Distillates (petroleum), solvent-refined heavy paraffinic*	10-<20	64741-88-4	None
	Calcium carbonate (Dust)	10-<20	471-34-1	None
	Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy ends, sulfonated, calcium salts	1-<5	148520-84-7	None
	Zinc oxide	1-<5	1314-13-2	None
	Calcium dodecylbenzene sulphonate	1-<5	26264-06-2	None
	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1-<5	68411-46-1	None
	Sulfonic acids, petroleum, calcium salts	1-<5	61789-86-4	None
	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	1-<5	156105-31-6	None
<b>3.2 Additional information</b>	*Contains <3% DMSO extract as measured by IP 346.			

## SECTION 4. FIRST AID MEASURES

**4.1 First aid measures**

<b>Eye contact:</b>	Remove contact lenses, if wearing, and flush eyes with water for 15 minutes. If irritation persists, consult a physician.
<b>Skin contact:</b>	Remove clothing and shoes, if contaminated. Wash skin with soap and water. Wash or clean contaminated clothing before reuse and discard oil-soaked shoes. If irritation persists, consult a physician.
<b>Ingestion:</b>	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.
<b>Inhalation:</b>	If exposed to excessive levels of material in the air, move the exposed person to fresh air. Seek medical attention if coughing or respiratory discomfort occurs.

**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.

**SECTION 5. FIREFIGHTING MEASURES**

**5.1 Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>), dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

**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. Burning produces noxious and toxic fumes.

**5.3 Advice for firefighters:** Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed. Prevent fire-extinguishing water from contaminating surface water or the groundwater system.

**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. Ensure good ventilation/exhaustion at the workplace. Keep container closed when not in use.

**See Section 8.2 for information on occupational hygiene.**

**7.2 Storage:** Store in a cool, dry place in tightly sealed containers. Store in out of direct sunlight. 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). Store away from strong acids, strong bases, and strong oxidizing agents. 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**

<b>8.1 Workplace exposure limits:</b>	<b>Components</b>	<b>Exposure limit and source</b>
	Distillates (petroleum), solvent-refined heavy paraffinic*	5 mg/m <sup>3</sup> (oil mist), OSHA
	Calcium carbonate (Dust)	TWA (respirable) = 5 mg/m <sup>3</sup> (NIOSH REL)
	Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available

Zinc oxide	Not available
Calcium dodecylbenzene sulphonate	Not available
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	Not available
Sulfonic acids, petroleum, calcium salts	Not available
Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	Not available

## 8.2 Exposure controls

<b>Engineering controls:</b>	Good general ventilation should be sufficient to control vapors under ambient conditions. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.
<b>Ventilation:</b>	Use in a well-ventilated area. See Engineering Controls.
<b>Personal hygiene:</b>	Wash skin thoroughly after contact, before breaks and meals and at the end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.
<b>Eye protection:</b>	Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.
<b>Hand protection:</b>	Any lined non-permeable rubber gloves.
<b>Respiratory protection:</b>	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

<b>Appearance / odor:</b>	White semi-solid with mild petroleum odor	<b>Vapor pressure:</b>	Not available
<b>Physical state:</b>	Semi-solid	<b>Vapor density:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Relative density:</b>	0.95-1.05
<b>pH:</b>	Not available	<b>Solubility in water:</b>	Negligible
<b>Melting / freezing point:</b>	Not available	<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>Boiling point / range:</b>	Not available	<b>Autoignition temperature:</b>	Not available
<b>Flash point:</b>	350°F (177°C), ASTM D 92	<b>Decomposition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Upper flammability limit:</b>	Not determined	<b>Explosive properties:</b>	Not applicable
<b>Lower flammability limit:</b>	Not determined	<b>Oxidizing properties:</b>	Not an oxidizer
<b>Percent Volatile:</b>	Not available		

**9.2 Other information** No further relevant information available.

## SECTION 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b>	See sub-sections below.
<b>10.2 Chemical stability:</b>	This material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous reactions are not expected to occur.
<b>10.4 Conditions and materials to avoid:</b>	Keep away from heat, sparks, open flames and other sources of ignition. Keep out of direct sunlight. Avoid strong acids, strong bases, and strong oxidizing agents.
<b>10.5 Hazardous decomposition products:</b>	Carbon oxides, metal oxides, nitrogen oxides (NO <sub>x</sub> ), and sulfur oxides.

### 11.1 Information on toxicological effects

<b>Acute toxicity / LD<sub>50</sub> and LC<sub>50</sub> of ingredients:</b>	<b>Components</b>	<b>LD<sub>50</sub></b>	<b>LC<sub>50</sub></b>
	Distillates (petroleum), solvent-refined heavy paraffinic*	Not available	Not available
	Calcium carbonate (Dust)	Not available	Not available
	Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available	Not available

Zinc oxide	>5000 mg/kg (oral, rat)	Not available
Calcium dodecylbenzene sulphonate	>4199 mg/kg (dermal, rabbit)	Not available
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	>2000 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

**Routes of exposure:** Eyes, skin, ingestion and inhalation

**Other information:** Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis, which can be fatal.

## SECTION 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity:</b>	<b>Components</b>	<b>L(E)C<sub>50</sub></b>
	Distillates (petroleum), solvent-refined heavy paraffinic*	Not available
	Calcium carbonate (Dust)	Not available
	Benzene, mono-C10-13-alkyl derivs., fractionation bottoms, heavy	Not available
	Zinc oxide	1.1 mg/l/96h [Oncorhynchus mykiss (rainbow trout)]
	Calcium dodecylbenzene sulphonate	22 mg/l/96h [Pimephales promelas (fathead minnow)]
	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	>71 mg/l/96h [Danio rerio (zebra fish)]
	Sulfonic acids, petroleum, calcium salts	>10,000 mg/l/96h [Cyprinodon variegatus (sheepshead minnow)]
	Benzenesulfonic acid, mono-C20-24-alkyl derivs., calcium salts	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.

	<b>Proper Shipping Name:</b>	<b>UN Number:</b>	<b>Hazard Class:</b>	<b>Packing Group:</b>	<b>Remarks:</b>
<b>U.S. D.O.T.</b>	Not regulated	None	None	None	None
<b>ADR/RID</b>	Not regulated	None	None	None	None
<b>IMDG</b>	Not regulated	None	None	None	None
<b>IATA</b>	Not regulated	None	None	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

Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is subject to

<b>SARA Section 304 CERCLA Hazardous Substances</b>	reporting to the National Response Center under CERCLA: None
<b>SARA Section 313 Toxic Chemicals</b>	This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations: Zinc oxide, CAS # 1314-13-2, present at <2.5%
<b>TSCA Inventory</b>	All components of this material are on the U.S. TSCA Inventory.
<b>California Proposition 65 Status</b>	This product does not contain chemical(s) known to the State of California to cause birth defects or other reproductive harm.
<b>California Proposition 65 Listed Components</b>	None
<b>International Regulations:</b>	
<b>European Union:</b>	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. A Chemical Safety Assessment has not been carried out.
<b>Canada</b>	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 MSDS contains all the information required by CPR.
<b>Japan MITI</b>	Not available
<b>Australia</b>	Not available
<b>Switzerland</b>	Not available

## SECTION 16. OTHER INFORMATION

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

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\*\*\* END OF SDS \*\*\*