Safety Data Sheet

Section 1: Identification

Product Name **Hasco FM Crystal Grease**

Relevant identified uses of the substance or mixture

Recommended use Food Grade Lubricating Grease

Details of the supplier of the safety data sheet

Manufacturer

Lubricating Specialties Corporation
8015 Paramount Boulevard
Pico Rivera, CA 90806
United States
www.hascooil.com

Telephone (General) (562) 595-8491

Emergency telephone number **(800) 424-9300 - Chemtrec USA**

Section 2: Hazard Identification

UN GHS

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Classification of the substance or mixture

UN GHS Not hazardous according to classification criteria.

Label elements

UN GHS None needed according to classification criteria

Precautionary statements

Prevention None needed according to classification criteria.

Response Eliminate all ignition sources if safe to do so.

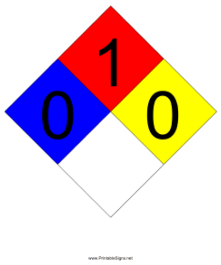
Storage/Disposal Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

This product contains no PBT/vPvB chemicals.

Other information

NFPA



Section 3 - Composition/Information on Ingredients

Substances

Composition		
Chemical Name	**Identifiers**	**%**
1-Decene, homopolymer, hydrogenated	**CAS:** 0068037-01-4	< 90%
Silane treated silica	**CAS:** 0068611-44-9	< 20%
Polybutene	**CAS:** 0009003-29-6	< 5%
Polyisobutylene	**CAS:** 0009003-27-4	< 3%
Ethanol	**CAS:** 0000064-17-5	< 3%

Section 4: First-Aid Measures

Description of first aid measures

Inhalation If breathing difficulties develop, move away from source and seek medical attention.

Skin Cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

Eye Flush eyes with clean water. Remove contact lenses, if present and easy to do. If symptoms persist, seek medical attention.

Ingestion If swallowed, do not induce vomiting. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Eyes: May cause slight irritation, tears and a burning sensation.
Skin: Causes mild irritation, potentially causing reddening, itching or inflammation.
Inhalation: Respiratory tract irritation may occur if exposed to fumes or mist.
Ingestion: Symptoms may include nausea, vomiting and diarrhea.

Medical attention and Special treatment needed

Treat symptomatically

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media Dry chemicals, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Unsuitable Extinguishing Media Do not use water jet.

Firefighting Procedures No actions shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials: Carbon Dioxide and Carbon Monoxide. Sparks may ignite material.

Advice for firefighters For fires beyond the initial stage, emergency responders in the immediate hazard area should wear protective gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant. Isolate immediate hazard area, keep unauthorized personnel out. Water spray may be useful in or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear personal protective clothing and equipment to avoid direct contact.

Emergency Procedures Keep unauthorized personnel away. Ventilate closed spaces before entering. This material will burn, but will not ignite readily. Keep all ignition sources away from the spill/release. As an immediate precautionary measure, isolate spill or leak area in all directions. Stop leak if you can do it without risk.

Environmental precautions

Stop leak if you can do it without risk. Isolate spill or leak area in all directions. Product is insoluble in water, so prevent if from entering drains or water ways. Notify appropriate state and local authorities.

Methods and material for containment and cleaning up

Containment/Clean-upMeasures

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

SMALL SPILL: Stop leak if without risk. Move containers from spill area. Absorb material with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

Avoid contact with heat and ignition sources. Avoid contact with skin and clothing. Use only with adequate ventilation. In accordance with good industrial hygiene and safety work practices, airborne exposures should be controlled to the lowest extent practicable. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage

Store in accordance with local regulations. Store away from direct sunlight in a dry, cool, well ventilated area away from incompatible materials (see section 10). Keep containers tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8 - Exposure Controls/Personal Protection

Control parameters:

Component	ACGIH	OSHA	NIOSH
Ethanol	1000 ppm STEL	TWA 1000 ppm (1900 mg/m3)	TWA 1000 ppm (1900 mg/m3)

STEL – Short Term Exposure Limit (15 minutes) TWA – Time Weighted Average

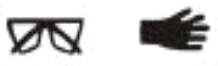
Engineering Measures/Controls

Consider the following when employing engineering controls and selection personal protective equipment: Potential hazards of the material, applicable exposure limits, job activities and other substances in the work place. If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits, additional engineering controls may be required.

Personal Protective Equipment

Respiratory: If high vapor concentration is present, wear NIOSH / OSHA approved respirator. No special respiratory protection is normally required.
Skin: Wear chemical resistant gloves and long sleeve clothing to minimize contact.
Eye/Face: Wear safety glasses. Wear glasses with side shield, goggles of face shield in case of splashing.

Pictograms



General Industrial Hygiene Considerations

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Grease	Appearance/Description	Clear Grease
Color	Clear	Odor	Odorless
Taste	Not relevant	Particulate Type	Not relevant
Particulate Size	Not relevant	Aerosol Type	Not relevant
Odor Threshold	Not relevant	Physical and Chemical Properties	Not relevant
General Properties			
Boiling Point	No Data Available	Melting Point	No Data Available
Decomposition Temperature	No Data Available	Heat of Decomposition	No Data Available
pH	Not relevant	Specific Gravity/Relative Density	~0.835 @ 60 F(15.5C)
Density	~6.955 #/gal	Bulk Density	No Data Available
Water Solubility	Insoluble	Solvent Solubility	Soluble
Viscosity	No Data Available	Explosive Properties	No Data Available
Oxidizing Properties:	No Data Available		
Volatility			
Vapor Pressure	No Data Available	Vapor Density	No Data Available
Evaporation Rate	No Data Available	VOC (Wt.)	No Data Available
VOC (Vol.)	Nil	Volatiles (Wt.)	No Data Available
Volatiles (Vol.)	No Data Available		
Flammability			
Flash Point	>225 C (COC)	UEL	No Data Available
LEL	No Data Available	Flame Duration	No Data Available
Heat of Combustion (ΔHc)	No Data Available	Burning Time	No Data Available
Flame Height	No Data Available	Flame Extension	No Data Available
Ignition Distance	No Data Available	Self-Accelerating Decomposition Temperature (SADT)	No Data Available
Autoignition	No Data Available	Flammability (solid, gas)	No Data Available
Environmental			
Half-Life	Not relevant	Octanol/Water Partition coefficient	Not relevant
Coefficient of water/oil distribution	Not relevant	Bioaccumulation Factor	Not relevant
Bioconcentration Factor	Not relevant	Biochemical Oxygen Demand BOD/BOD5	Not relevant
Chemical Oxygen Demand	Not relevant	Persistence	Not relevant
Degradation	Not relevant		

Section 10: Stability and Reactivity

Reactivity No dangerous reaction known under conditions of normal use

Chemical stability Stable under normal ambient and anticipated conditions of use.

Possibility of hazardous reactions May react with oxidizing agents.

Conditions to avoid Extended exposure to high temperatures can cause decomposition

Incompatible materials Avoid contact with strong oxidizing agents and reducing agents

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 - Toxicological Information

Component	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation vapor LD50, mg/L/4hr
1-Decene, homopolymer, hydrogenated	> 5,000 Rat	> 2,000 Rabbit	Not Available
Ethanol	> 1500 Rat	Not Available	> 125 Rat
Polybutene	Not Available	> 10,250 Rabbit	Not Available

Symptoms related to physical, chemical and toxicological characteristics:

Inhalation: Inhalation of solvent vapor concentrations in excess of the stated occupational exposure limits may result in adverse health effects.
Skin Irritation: May cause mild skin irritation, redness, itching and inflammation
Eye Damage/Irritation: May cause slight eye irritation, tears and a burning sensation
Ingestions: May cause gastrointestinal irritation, nausea, vomiting and diarrhea

Information on toxicological effects:

Skin corrosion/irritation Not classified
Serious eye damage/eye irritation Not classified
Respiratory sensitization Not classified
Skin sensitization Not classified
Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified
Specific Target organ toxicity Not classified
Aspiration toxicity Not classified

Section 12 - Ecological Information

Eco-toxicity Not classified in terms of eco-toxicity

Components	Species	Test Results
Ethanol (64-17-5)		
Acute		
Algae – EC50	Algae	17.9 mg/l, 96 hr
Crustacea –	Daphnia magna	2 mg/l, 48 hr
EC50 Fish –	Fish	42 mg/l, 96 hr

Bio-accumulative potential Not measured

Mobility in soil No data available

Other adverse effects No other adverse effects expected

Section 13 - Disposal Considerations

Waste treatment methods

Product waste Avoid contact of spilled material with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

Packaging waste Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

DOT - U.S. Department of Transportation

Shipping Description: Not regulated.

Trucking Freight description: 65 Petroleum Oil, N.O.I.B.N

IATA – Int'l Air Transport Association
Not Regulated

IMDG – Int'l Maritime Dangerous Goods
Not Regulated

Annex II of MARPOL 73/78 and the IBC Code:
Not classified for MARPOL.

Section 15 - Regulatory Information

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

CERCLA/SARA - This material does not contain toxic chemicals (in excess of the applicable de minimis concentration) that are subject to the reporting requirements of SARA 313 (40 CFR 372)

TSCA Inventory: All the components of this product are listed on, or are automatically included as 'natural occurring chemical substances on, or are exempted from the requirements to be listed on the TSCA inventory.

Other Information:

CALIFORNIA PROPOSITION 65: This product does not contain a chemical currently known to the State of California to cause cancer, birth defects, or other reproductive harm at levels which are subject to the reporting requirements of SARA 302.

Inventory - Australia - Inventory of Chemical Substances (AICS):

1-Decene, homopolymer, hydrogenated

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates

Ethanol

Phosphorothioic acid, O,O,O-triphenyl ester

Polybutene

Polyisobutylene

Silane treated silica

Inventory - Japan Existing and New Chemical Substances (ENCS):

1-Decene, homopolymer, hydrogenated
Ethanol (2-202)
Phosphorothioic acid, O,O,O-triphenyl ester (3-3370)
Polybutene (6-774)
Polyisobutylene (5-774; 6-774)

Korean Existing Chemicals Inventory:

1-Decene, homopolymer, hydrogenated
Ethanol
Phosphorothioic acid, O,O,O-triphenyl ester
Polybutene
Polyisobutylene

Inventory of Existing Chemical Substances in China:

1-Decene, homopolymer, hydrogenated
Polybutene
Polyisobutylene

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :

1-Decene, homopolymer, hydrogenated
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates
Ethanol
Phosphorothioic acid, O,O,O-triphenyl ester
Polybutene
Polyisobutylene
Silane treated silica

Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act :

EU REACH: Annex XVII, Dangerous Substances and Preparations:

Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS):

1-Decene, homopolymer, hydrogenated ()
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (279-632-6)
Ethanol (200-578-6)
Phosphorothioic acid, O,O,O-triphenyl ester (209-909-9)
Polybutene ()
Polyisobutylene ()
Silane treated silica (271-893-4)

Section 16 - Other Information

Revision 1

Preparation Date November 11, 2015

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