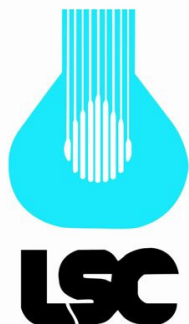


Alaska Glacier FM 2**Product Code**
34010**MSDS Date**
03/15/2008**1. Identification of the preparation and company**

Preparation/Product Name Alaska Glacier FM 2
Product Code 34010
Company Name LUBRICATING SPECIALTIES COMPANY
8015 PARAMOUNT BLVD.
PICO RIVERA, CA 90660

Telephone No. (562) 776-4000
24 hour Emergency Telephone No. (800) 424-9300
General MSDS (562) 776-4000

2. Hazard identification of the product**Warning****GHS Classification:**

Item	Category	Hazard
Flammability	Not classified	Not applicable
Acute Toxicity (mouth)	Not classified	Not applicable
Acute Toxicity (skin)	5	May be harmful in contact with skin
Acute Toxicity (inhalation)	Not classified	Not applicable
Acute Toxicity (ingestion)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Eye damage/irritation	Not classified	Not applicable
Sensitization	Not classified	Not applicable

(respiratory)		
Sensitization (skin)	Not classified	Not applicable
Germ toxicity	Not classified	Not applicable
Specific target organ systemic toxicity (single exposure)	1	No target organs for this category.
	2	No target organs for this category.
	3	narcotic effects, respiratory system
Specific target organ systemic Toxicity (repeated exposure)	1	liver
	2	No target organs for this category.
Aspiration hazard	Not classified	Not applicable
Harmfulness to aquatic Environment (acute)	Not classified	Not applicable
Harmfulness to aquatic Environment (long term effect)	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive Toxicity	Not classified	Not applicable
Organic Peroxide	Not classified	Not applicable

Safety Phrases: Not Applicable

3. Composition/information on ingredients

Mixture : Yes

Ingredient	CAS Number	Concentration
1-Decene, homopolymer, hydrogenated	068037-01-4	<50
Ethyl alcohol	000064-17-5	<3
Polybutene	009003-29-6	<30
Silane, dichlorodimethyl-, reaction products with Silica	068611-44-9	<30

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR 1910.1000(z)

4. First aid measures

Inhalation Remove exposed person to fresh air. If breathing is labored, administer oxygen and obtain immediate medical attention. If irritation persists or if

	toxic symptoms are observed, get medical attention.
Eye Contact	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
Skin Contact	Wash immediately with soap and water. Remove soiled clothing. Get medical attention if irritation develops. Launder contaminated clothing.
Ingestion	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

5. Fire-fighting measures

Flash Point °C 232

Slightly Combustible. May release flammable vapors when heated above flash point.

Extinguishing Media	Carbon Dioxide, dry chemical, or foam. Avoid using water.
Combustion Products	Carbon monoxide and asphyxiants.
Special Fire Procedures	Recommend SCBA. Use water only for cooling container. Water may cause splattering, or transport the flame.

6. Accidental release measures

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see PPE section 8 & 16. Remove sources of ignition. Prevent entry into sewers and waterways. Contain release, pick up free liquid for recycling or disposal. Residual liquid can be absorbed with inert material. Check DOT/CERCLA and other agencies for reporting requirements.

Prevent contamination to soil, waterway and sewer systems.

7. Handling and storage

Handling	Avoid prolonged skin contact, breathing vapors, and contaminated clothing. Use with adequate ventilation. Wear recommended protective equipment. Practice good personal hygiene after handling. Empty containers retain material residue. Do not cut, weld, braze, solder or expose containers to other ignition sources.
Storage	Store in closed containers of proper construction. Store away from ignition sources and in areas of good ventilation.

8. Exposure controls and personal protection

Exposure Limits	The PEL (OSHA) and the TLV (ACGIH) is 5 mg/m ³ for oil mists.
Ventilation	Use in areas of adequate ventilation. Use mechanical exhaust to control vapors or mists.
Gloves	Nitrile or neoprene gloves are recommended.
Eye Protection	Safety glasses, goggles, or face shield are recommended.
Respiratory Protection	Use NIOSH/MSHA approved respirator with organic vapor cartridge and dust/mist cartridge is recommended if exposure limit is exceeded. Self-contained breathing apparatus is recommended for confined space entry.
Clothing	Long sleeve shirt and apron when potential for skin contact. Wear neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

9. Physical and chemical properties

Appearance	BLUE BUTTERY GREASE	Odor	SLIGHT PETROLEUM
Flash Point °C	>232	Boiling Point °C	>332
VOC %	NIL	pH	n/d
Specific Gravity	0.870	Solubility in Water	negligible
Vapor Pressure	<0.01 mmHg@20 °C	Vapor Density	Heavier than air.
Evaporation Point	less than ether		
Flammability	Materials classified as DOT Combustible Liquids (Flash Point > 141 °F and < 200 °F) are not regulated by DOT in containers of 110 gallons, or less for domestic shipments.		

10. Stability and reactivity

Stability	Material is normally stable at ambient temperature and pressure.
Conditions to Avoid	Do not store with strong oxidizing agents. Keep away from heat, sparks, open flame, or all sources of ignition.
Polymerization	Will not occur.
Decomposition	Carbon dioxide, carbon monoxide.

11. Toxicological information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
1-Decene, homopolymer, hydrogenated	5,000.00, rat - Category: 5	> 2,000, rabbit - Category: 5	-----
Ethyl alcohol	1,501.00, Rat - Category: 4	-----	124.70, Rat - Category: NA
Polybutene	34,600.00, rat -	10,250.00, rabbit -	-----

	Category: NA	Category: NA	
Silane, dichlorodimethyl-, reaction products with Silica	-----	-----	-----

Oral Toxicity Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.

Eye Irritation Not expected to cause eye irritation.

Skin Irritation Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.

Carcinogenicity

CAS Number	Ingredient		
068037-01-4	1-Decene, homopolymer, hydrogenated	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
000064-17-5	Ethyl alcohol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
009003-29-6	Polybutene	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No
068611-44-9	Silane, dichlorodimethyl-, reaction products with Silica	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2A: No; Group 2B: No; Group 3: No; Group 4: No;
		California OSHA	Listed: No

12. Ecological information

This material is expected to have adverse effects on marine and plant life. Spills may contaminate drinking water.

13. Disposal considerations

Consult federal, state and local regulations regarding disposal methods, recycle used oil. Do not contaminate used oil with solvents or other chemicals.

14. Transport information

See 49 CFR part 171.8 through 178.510

Proper Shipping Name Oil, n.o.s
Hazard Class Not regulated
UN No Not applicable
Packaging Group Not applicable
Marine Pollutant No
GHS Hazard Class Not applicable
GHS Shipping Information Not applicable
IMDG Not Regulated

15. Regulatory information

TSCA: All components of this product are listed on the United States TSCA (Toxic Control Substance Act) Inventory.

RCRA: Not regulated

SARA 311/312 (>0.1%): Not applicable

SARA 313 (>0.1%): Not applicable

CERCLA (>0.1%):

Inventory - Canada - Non-Domestic Substances List (NDSL):

Octadecenamide, N-[2-[(2-hydroxyethyl)amino]ethyl]-, monoacetate (salt)

California Proposition 65 Cancer: Not applicable

California Proposition 65 Developmental:

Ethyl alcohol (<3 %)

California Proposition 65 Female Reproductive: Not applicable

California Proposition 65 Male Reproductive: Not applicable

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

1-Decene, homopolymer, hydrogenated

1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro-

Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Ethyl alcohol
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-
Phosphorothioic acid, O,O,O-triphenyl ester
Polybutene
Polyisobutylene
Silane, dichlorodimethyl-, reaction products with Silica

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

1-Decene, homopolymer, hydrogenated ()
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (5-425; 5-3496)
Ethyl alcohol (2-202)
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (2-1226; 2-2679; 9-1930)
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
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro-
Ethyl alcohol
Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-
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
1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro-
Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene
Ethyl alcohol

Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)-
 Phosphorothioic acid, O,O,O-triphenyl ester
 Polybutene
 Polyisobutylene
 Silane, dichlorodimethyl-, reaction products with Silica

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

Methylisobutyl ketone

**EU REACH: Annex XVII,
 Dangerous Substances and
 Preparations:**

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

1-Decene, homopolymer, hydrogenated ()
 1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro- (202-414-9)
 Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates (279-632-6)
 Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene (270-128-1)
 Ethyl alcohol (200-578-6)
 Glycine, N-methyl-N-(1-oxo-9-octadecenyl)-, (Z)- (203-749-3)
 Phosphorothioic acid, O,O,O-triphenyl ester (209-909-9)
 Polybutene ()
 Polyisobutylene ()
 Silane, dichlorodimethyl-, reaction products with Silica (271-893-4)

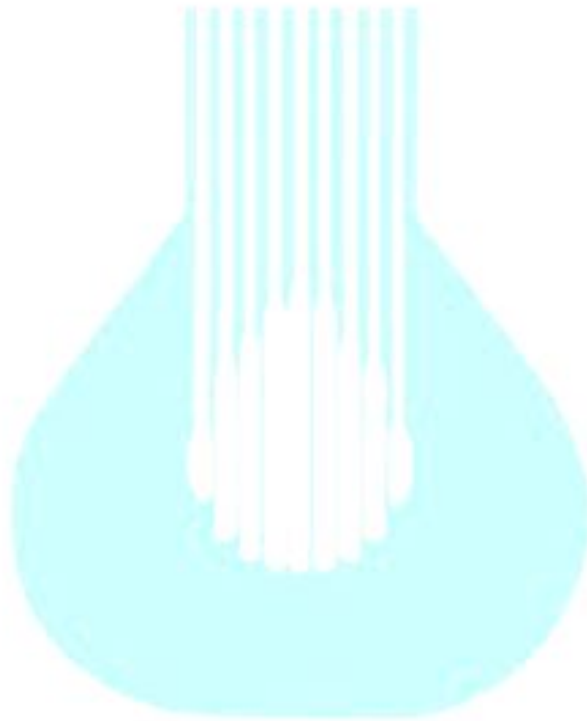
**EU List of Notified Chemical
 Substances (ELINCS):** Not applicable

Risk Phrases: Not Applicable

16. Other information

HMIS	Health:	1	NFPA	Health:	1
	Fire:	1		Fire:	1
	Physical Hazards:	0		Reactivity:	0
	PPE:	C		Special Hazards:	---

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