



SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name	Ice STUFFF™ (biobased Release Agent)
Product codes	IS-3.79L-1; IS-19L-1; IS-208L-1; IS -1000L-1
Recommended use	High performance ice release. For use on any metal application and in environmentally sensitive areas.
Restrictions on use	Not available
Chemical family	Fatty acid ester
Supplier and Manufacturer Contact Information	STUFFF Lubricants Inc. 2240 F & G Line Road Richards Landing, ON, P0R 1J0 Canada (877) 578-8333, ext. 103 www.stufff.ca , info@stufff.ca
24 Hr. Emergency Tel #	705-971-2455

SECTION 2. HAZARDS IDENTIFICATION

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). For further information see SDS Section 15.

Classification	Light yellow liquid, faint odor of fatty substance.
Label elements Hazard Pictogram, Signal Word, Hazard Statement, Precautionary Statement	None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.
Health hazards	This material has no known hazards when used as directed.
Environmental hazards	No significant hazards.
Physical / chemical hazards	No significant hazards.
Hazards not otherwise classified	This material has no known hazards when used as directed.
NOTE	This material should not be used for any purpose other than the intended use noted in Section 1. Acute exposure may cause potential human health risks which can vary from person to person. Under no circumstances should the product be ingested or allowed direct contact with eyes.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Formulation is considered a trade secret and specific chemical identity and exact percentage of composition may have been withheld.
Material Name	Biobased Ice Release Agent

Chemical name	Common name/synonyms	CAS #	Concentration (% by weight)
No hazardous ingredients above concentration cut-offs	N/A	N/A	100.0%

SECTION 4. FIRST-AID MEASURES

Description of first aid measures	
Ingestion	Do not induce vomiting. If conscious, drink plenty of water. If symptoms develop, seek medical attention.
Inhalation	Move to fresh air. If breathing is difficult provide oxygen. If breathing stops, provide artificial respiration. If irritation or symptoms develop, seek medical attention.
Skin Contact	Wash with soap and water. Remove contaminated clothing and launder before reuse. If irritation or symptoms develop, seek medical attention.
Eye Contact	Flush eye with water for 15 minutes. If symptoms develop, seek medical attention.
Most important symptoms and effects, both acute and delayed	
Symptoms	No information available
Indication of any immediate medical attention and special treatment needed	
Treatment	Ensure medical personnel are aware of material involved.
NOTE to physician or authorized treatment provider	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂); Dry chemical; Alcohol resistant foam; Water fog.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.
Classification and conditions of flammability	Not classified as flammable. Potential to burn if exposed to extreme heat and flame. Vapors are heavier than air and may spread along floors. Material will float on water and can be re-ignited at the water's surface. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.
Hazardous combustion products	Carbon oxides. Other unidentified organic compounds.
Protective equipment & precautions	Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
Fire-fighting procedures	Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire-fighting to enter drains or water courses. Dike as appropriate to control run-off and/or water.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Keep unnecessary personnel away.
Environmental precautions	Prevent product from entering drains, waterways and soil. Check local, national and international regulatory information to determine any reporting requirements for spills.
Methods for containment	Prevent further leakage or spillage if safe to do so. Confine spill immediately with booms.
Methods for clean-up	Absorb spill with inert material (sand or earth), then place in suitable containers. Where necessary collect using absorbent media, or skim surface with suitable absorbent, then transfer material in approved containers.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Conditions for safe storage	Keep containers labelled and tightly closed when not in use. Store in a cool, well-ventilated place clear of obstruction and accessible only to authorized personnel. Inspect periodically for damage or leaks.
Incompatible materials	Strong oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines				
Components	ACGIH TLV		OSHA PEL	
No hazardous ingredients above concentration cut-offs	TWA	STEL	PEL	STEL
	N/Ap	N/Ap	N/Ap	N/Ap
Exposure Controls				
Ventilation & engineering measures	Provide adequate ventilation. Apply technical measures to comply with the occupational exposure limits.			
Respiratory protection	No personal respiratory protective equipment normally required. If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02.			
Skin protection	Protect as appropriate for the application with gloves impervious to the material and an apron or other protective clothing.			
Eye / face protection	Wear as appropriate.			
Other protective equipment	Ensure that eyewash stations and safety showers are nearby work location. Other equipment may be required depending on workplace standards.			
General hygiene considerations	Avoid acute contact with skin, eyes and clothing. Avoid breathing fumes.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Typical information on basic physical and chemical properties	
Physical state	Liquid
Appearance	Light yellow liquid
Odor	Faint odor of fatty substance
Odor Threshold	N/Av
pH	10.0 (approximately)
Melting point	N/Av
Freezing point	N/Av
Initial boiling point/boiling range	280°C (536°F)
Flash point	> 166°C (331°F)
Flashpoint (Method)	ASTMD93
Evaporation rate (BuAe = 1)	Approx. <1
Flammability (solid, gas)	N/Av
Lower flammable limit (% by vol)	N/Av
Upper flammable limit (% by vol)	N/Av
Oxidizing properties	No oxidizing properties, no significant hazards.
Explosive properties	Not explosive
Vapor pressure	N/Av
Vapor density	< 1 (Air = 1)
Relative density	Relative density: 880 kg/m ³ (7.34 lbs/gal)
Specific gravity	m ³ (7.34 lbs/gal) Specific
Solubility in water	Insoluble
Other solubilities	N/Av
Partition coefficient	N/Av
Auto ignition temperature	N/Av
Decomposition temperature	N/Av
Viscosity	N/Av
Volatiles (% by weight)	N/Av
Volatile organic compound, VOC	N/Av
Absolute pressure of container	N/Av
Flame projection length	N/Av
Other comments	None

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not normally reactive. Refer to Section 7, HANDLING AND STORAGE, for additional information.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	No special storage conditions required.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	None under normal processing.

SECTION 11. TOXICOLOGICAL INFORMATION

Information of likely routes of exposure

Potential Health Effects: Signs & symptoms of short-term acute exposure

Toxicological data	Product does not present an acute toxicity hazard based on known or supplied information.
Eye contact	Contact with eyes may cause slight or mild transient irritation. Exposure may cause temporary irritation, redness or discomfort to eyes based on assessment of the components.
Skin contact	Acute Toxicity: Minimally toxic, based on assessment of the components. Substance does not generally irritate. May be mildly irritating to the skin with acute prolonged exposure.
Inhalation	Acute Toxicity: Minimally toxic, based on assessment of the components and structurally similar materials.
Ingestion	Acute Toxicity: Minimally toxic, ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Aspiration	Not expected to be an aspiration hazard, based on physical and chemical properties of the material.
Respiratory Sensitization	Not expected to be a respiratory sensitizer, based on assessment of the components and structurally similar materials.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Lactation	Not expected to cause harm to breast-fed children.
Specific target organ toxicity (STOT)	This product is not expected to cause target organ toxicity through single or repeated exposures. According to the classification criteria of U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Sensitization to material	No data available to indicate product or components may be skin sensitizers. No data available to indicate product or components may be respiratory sensitizers.
Medical conditions aggravated by overexposure	Pre-existing skin, eye and respiratory disorders.
Synergistic materials	None known or reported by the manufacturer.
Toxicological data	Not classified for acute toxicity based on available data. No data is available on the product itself.
Other Toxicity Information	Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

SECTION 12. ECOLOGICAL INFORMATION





Ecotoxicity	No known hazards to the aquatic environment.
Persistence and degradability	Readily biodegradable > 60% within 28 days.
Bioaccumulation potential	Not established. No potential to bioconcentrate.
Mobility in soil	Not established.
Mobility in water	The material is insoluble and floats on water.
Other adverse environmental effects	No adverse environmental effects are expected from this component (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential).

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for disposal	Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.
Methods of Disposal	Dispose in accordance with all applicable federal, provincial, state and local regulations.
Note	It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Special precautions for user	Appropriate advice on safety must accompany the package.
Environmental hazards	This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.
Transport in bulk	Not applicable according to Annex II of MARPOL 73/78 and the IBC Code.

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	None	
Additional information	None.				
49CFR/DOT	None.	Not regulated.	Not regulated	None	
Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	None	
Additional information	None.				
IMDG	None.	Not regulated.	Not regulated	None	
Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

Canadian Information

Canadian Environmental Protection Act (CEPA): All ingredients listed appear on the Domestic Substances List (DSL).
 Canadian National Pollutant Release Inventory (NPRI): This product does not contain any substances listed on the NPRI.
 WHMIS: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information

Components listed below are present on the following U.S. Federal chemical lists:

Ingredients	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302)	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	
					Toxic Chemical	de minimus Concentration
No hazardous ingredients above concentration cut-offs	N/Ap	Yes	None	None	No	N/Ap

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.
 Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
No hazardous ingredients above concentration cut-offs	N/Ap	No	N/Ap	No	No	No	No	No	No

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	New Zealand IOC
No hazardous ingredients above concentration cut-offs	N/Ap	Not specifically listed (Components)	Not specifically listed (Components)	Not specifically listed (Components)	Not specifically listed (Components)	Not specifically Listed (Components)	Present (Components)	Not specifically listed (Components)

Legend	ACGIH: American Conference of Governmental Industrial Hygienists AICS: Australian Inventory of Chemical Substances CAS: Chemical Abstract Services CSA: Canadian Standards Association
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SECTION 16 - OTHER INFORMATION

Guide to abbreviations	<p>EC50: Effective Concentration 50% EINECS: European Inventory of Existing Commercial chemical Substances ENCS: Existing and New Chemical Substances HSDB: Hazardous Substances Data Bank IARC: International Agency for Research on Cancer IBC: Intermediate Bulk Container IECSC: Inventory of Existing Chemical Substances IMDG: International Maritime Dangerous Goods IOC: Inventory of Chemicals KECL: Korean Existing Chemicals Inventory KECL: Korean Existing Chemicals List LC: Lethal Concentration LD: Lethal Dose N/Ap: Not Applicable N/Av: Not Available NIOSH: National Institute of Occupational Safety and Health NOEC: No observable effect concentration NTP: National Toxicology Program OECD: Organization for Economic Co-operation and Development OSHA: Occupational Safety and Health Administration PEL: Permissible exposure limit PICCS: Philippine Inventory of Chemicals and Chemical Substances RTECS: Registry of Toxic Effects of Chemical Substances SDS: Safety Data Sheet STEL: Short Term Exposure Limit TDG: Canadian Transportation of Dangerous Goods Act & Regulations TLV: Threshold Limit Values TSCA: Toxic Substance Control Act TWA: Time Weighted Average WHMIS: Workplace Hazardous Materials Identification System</p>
Preparation Date	04/07/2019
Other special handling instructions	Provide adequate information, instruction and training for users of product.

DISCLAIMER

This Safety Data Sheet was compiled from sources considered to be dependable including consultation with ICC The Compliance Center Inc. and CCOHS' Web Information Service. It is accurate to the best of STUFFF Lubricants Inc. knowledge however, the information is offered only for consideration and guidance when exposed to this product. STUFFF Lubricants Inc. expressly disclaims all expressed or implied warranties and assumes no responsibilities for injury to recipient or to third party persons or any damage to property or assets. By using this product, the recipient(s) assume all risks. This Safety Data Sheet may not be changed or altered in any way without the expressed knowledge and permission of STUFFF Lubricants Inc.