

Issue date 11-Jul-2018

Revision date 28-Sep-2018

Revision Number 2

1. IDENTIFICATION

Product identification

Product identifier	Lawson De-Icer Windshield Spray
Other means of identification	95101
Recommended use	Winter Products
Restrictions on use	For industrial use only

Supplier

Corporate Headquarters:
Lawson Products, Inc.
8770 W. Bryn Mawr Ave., Suite 900
Chicago, IL 60631
(866) 837-9908

Canadian Distribution Center:
Lawson Canada
7315 Rapistan Court
Mississauga, ON L5N 5Z4
(800) 323-5922

24 Hour Emergency Phone Number (888) 426-4851 (Prosar)

2. HAZARD(S) IDENTIFICATION

Hazard Classification This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation	Category 3
Specific target organ toxicity (single exposure)	Category 1
Flammable aerosols	Category 1
Gases under pressure	Dissolved gas

Symbol



Signal word

DANGER

Hazard statements

H222 - Extremely flammable aerosol
H280 - Contains gas under pressure; may explode if heated
H301 - Toxic if swallowed

H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H370 - Causes damage to organs

Precautionary statements

General

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P103 - Read label before use.

Prevention

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves and eye/face protection

Response

General

P321 - For Specific treatment see section 4 of this sds
P312 - Call a POISON CENTER or doctor if you feel unwell
P308 + P313 - IF exposed or concerned: Get medical advice/attention

Skin

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P362 - Take off contaminated clothing and wash before reuse

Inhalation

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Ingestion

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P330 - Rinse mouth

Storage

P410 - Protect from sunlight
P403 - Store in a well-ventilated place
P412 - Do not expose to temperatures exceeding 50 °C/122 °F

Disposal

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

Hazard(s) Not Otherwise Classified (HNOC)

Not available.

Physical Hazards Not Otherwise Classified (PHNOC)

Not available.

Unknown acute toxicity

0%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition

Mixture.

Chemical name	CAS-No	Weight %
Methyl alcohol	67-56-1	60-100
Ethylene glycol	107-21-1	5-10
Carbon Dioxide	124-38-9	3-7

Isopropyl alcohol	67-63-0	1-5
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The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST-AID MEASURES

Necessary first-aid measures

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, administer artificial respiration by trained personnel. Seek medical attention.
Ingestion	Do NOT induce vomiting. Seek medical attention immediately.
Skin contact	Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention IMMEDIATELY.

Most important symptoms (acute)	Symptoms after eye contact: redness. Tearing. Symptoms after skin contact: Absorption of large amounts of product causes Eye and Central Nervous System damage, and possibly death. Symptoms after inhalation: Anesthetic. Respiratory irritation. Danger of serious damage to health by prolonged exposure through inhalation. Unconsciousness. Death. Symptoms after ingestion: Symptoms include abdominal pain, stomach upset, nausea, vomiting and diarrhea. Consumption of large quantities causes Eye, Central Nervous System damage and death.
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Most important symptoms (over-exposure)	May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).
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Indication of any immediate medical attention and special treatment needed	NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.
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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Carbon dioxide (CO ₂). Dry powder. Water fog.
Unsuitable extinguishing media	Water stream may spread fire. Water spray may be ineffective.
Specific hazards	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Hazardous Thermal Decomposition Products: Oxides of carbon.
Special protective equipment for fire-fighters	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Avoid contact with this material. Avoid breathing smoke, fumes and other decomposition products. Water should be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protection recommended in Section 8.
Methods and materials for containment and cleaning up	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean up residue with soap and water.

7. HANDLING AND STORAGE

Precautions for safe handling

Wash hands with soap and water before eating, drinking, smoking, or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store away from direct sunlight. Store in a cool, dry, and well-ventilated place. Do not expose to temperatures exceeding 122 °F (50 °C). Pressurized container: Do not pierce or burn, even after use. Keep out of reach of children. Incompatible with oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

See information below

Chemical name	OSHA PEL (TWA)	ACGIH OEL (TWA)	NIOSH - TWA
Methyl alcohol	200 ppm TWA 260 mg/m ³ TWA	250 ppm STEL 200 ppm TWA Skin	250 ppm STEL 325 mg/m ³ STEL 200 ppm TWA 260 mg/m ³ TWA
Ethylene glycol	-	50 ppm STEL 10 mg/m ³ STEL 25 ppm TWA	-
Carbon Dioxide	5000 ppm TWA 9000 mg/m ³ TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA
Isopropyl alcohol	400 ppm TWA 980 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	500 ppm STEL 1225 mg/m ³ STEL 400 ppm TWA 980 mg/m ³ TWA

Appropriate engineering controls

A safety shower and eye wash station should be available for emergency use. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye protection

ANSI approved safety glasses are recommended to prevent accidental eye contact.

Skin and body protection

Wear adequate protective clothes.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. Wear a NIOSH approved organic vapor/mist respirator.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. Avoid breathing vapors or mists. When using, do not eat, drink or smoke.

Canadian Province Occupational Exposure Limits

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland & Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
Methyl alcohol	250 ppm STEL 328 mg/m ³ STEL 200 ppm	250 ppm STEL 200 ppm TWA	200 ppm TWA 250 ppm STEL	250 ppm STEL 328 mg/m ³ STEL 200 ppm	250 ppm STEL 200 ppm TWA	250 ppm STEL 200 ppm TWA	250 ppm STEL 200 ppm TWA	250 ppm STEL 200 ppm TWA	250 ppm STEV 328 mg/m ³ STEV 200 ppm	250 ppm STEL 200 ppm TWA

Chemical name	Alberta OEL	British Columbia OEL	Manitoba OEL	New Brunswick - OEL	Newfoundland and Labrador - OEL	Nova Scotia - OEL	Ontario OEL	Prince Edward Island - OEL	Quebec OEL	Saskatchewan - OEL
	TWA 262 mg/m ³ TWA			TWA 262 mg/m ³ TWA					TWAEV 262 mg/m ³ TWAEV	
Ethylene glycol	100 mg/m ³ Ceiling	100 mg/m ³ Ceiling 50 ppm Ceiling 20 mg/m ³ STEL 10 mg/m ³ TWA	25 ppm TWA 50 ppm STEL 10 mg/m ³ STEL	100 mg/m ³ Ceiling	50 ppm STEL 10 mg/m ³ STEL 25 ppm TWA	50 ppm STEL 10 mg/m ³ STEL 25 ppm TWA	100 mg/m ³ Ceiling	50 ppm STEL 10 mg/m ³ STEL 25 ppm TWA	50 ppm Ceiling 127 mg/m ³ Ceiling	100 mg/m ³ Ceiling
Carbon Dioxide	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA	15000 ppm STEL 5000 ppm TWA	5000 ppm TWA 30000 ppm STEL	30000 ppm STEL 54000 mg/m ³ STEL 5000 ppm TWA 9000 mg/m ³ TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEL 5000 ppm TWA	30000 ppm STEV 54000 mg/m ³ STEV 5000 ppm TWAEV 9000 mg/m ³ TWAEV	30000 ppm STEL 5000 ppm TWA
Isopropyl alcohol	400 ppm STEL 984 mg/m ³ STEL 200 ppm TWA 492 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	200 ppm TWA 400 ppm STEL	500 ppm STEL 1230 mg/m ³ STEL 400 ppm TWA 983 mg/m ³ TWA	400 ppm STEL 200 ppm TWA	400 ppm STEL 200 ppm TWA	400 ppm STEL 200 ppm TWA	400 ppm STEL 200 ppm TWA	500 ppm STEV 1230 mg/m ³ STEV 400 ppm TWAEV 985 mg/m ³ TWAEV	400 ppm STEL 200 ppm TWA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Aerosol
Color	Clear
Odor	Alcohol-like
Odor threshold	No information available
pH	No data available
Melting point/range °C	No data available
Melting point/range °F	No data available
Boiling point/range °C	64.4 °C
Boiling point/range °F	148 °F
Flash point °C	18
Flash point °F	65
Flash point method used	Not available
Evaporation rate	>1 (Butyl Acetate = 1)
Flammability (Solid, Gas)	Extremely Flammable Aerosol

Lower explosion limit	No data available
Upper explosion limit	No data available
Vapor pressure	89mmHg
Vapor density	> 1 (Air=1)
Relative density	0.815
Solubility	completely soluble in water
Partition coefficient (n-octanol/water)	No data available
Autoignition temperature °C	No data available
Autoignition temperature °F	No data available
Decomposition temperature °C	No data available
Decomposition temperature °F	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	None known.
Chemical stability	Stable.
Possibility of hazardous reactions	None known.
Conditions to avoid	Exposure to temperatures above 120F may cause bursting.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Dermal. Inhalation. Ingestion. Eyes.
Symptoms	Adverse symptoms may include the following: May cause severe eye irritation. redness. Tearing. Ingestion not an expected route of entry, but if ingested product could cause serious injury. Acute exposure through inhalation may cause nausea, coughing, vomiting or pulmonary irritation. Skin contact may cause localized defatting, irritation, may be absorbed through skin with systemic effects. Pre-existing disorders of the skin, respiratory system and eyes will be aggravated by over exposure to this product.
Delayed and immediate effects as well as chronic effects from short and long-term exposure	eye pain, redness, and watering. Absorption of large amounts of product causes Eye and Central Nervous System damage, and possibly death. Inhalation: Anesthetic, irritation, prolonged exposure may lead to unconsciousness and death. Oral: abdominal irritation, nausea, vomiting, and diarrhea, consumption of large quantities causes Eye, Central Nervous System damage, and death. May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

Numerical measures of toxicity

Chemical name	Inhalation LC50:	Dermal LD50:	Oral LD50:
Methyl alcohol	= 22500 ppm (Rat) 8 h = 64000 ppm (Rat) 4 h	= 15800 mg/kg (Rabbit) = 15840 mg/kg (Rabbit)	= 6200 mg/kg (Rat)
Ethylene glycol	-	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	= 4700 mg/kg (Rat)
Carbon Dioxide	-	-	-
Isopropyl alcohol	= 72600 mg/m ³ (Rat) 4 h	= 4059 mg/kg (Rabbit)	= 1870 mg/kg (Rat)

ATEmix (dermal) Not available

ATEmix (oral) Not available

ATEmix (inhalation-gas) Not available

ATEmix (inhalation-vapor) Not available

ATEmix (inhalation-dust/mist) Not available

Carcinogenicity

Chemical name	ACGIH OEL - Carcinogens	IARC	OSHA RTK Carcinogens	NTP
Methyl alcohol	-	-	-	-
Ethylene glycol	A4	-	-	-
Carbon Dioxide	-	-	-	-
Isopropyl alcohol	A4	Group 1 Group 3	Listed	-

Canadian Province
carcinogenicity limits

Chemical name	Alberta - Carcinogen	British Columbia - Carcinogen	Manitoba - Carcinogen	New Brunswick - Carcinogen	Nova Scotia - Carcinogen	Quebec - Carcinogen
Methyl alcohol	-	-	-	-	-	-
Ethylene glycol	-	-	ACGIH A4	ACGIH A4	ACGIH A4	-
Carbon Dioxide	-	-	-	-	-	-
Isopropyl alcohol	-	-	ACGIH A4	-	ACGIH A4	-

12. ECOLOGICAL INFORMATION

Ecotoxicity

See information below

Chemical name	Algae/aquatic plants	Fish
Methyl alcohol	-	100: 96 h Pimephales promelas mg/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss

Chemical name	Algae/aquatic plants	Fish
		mL/L LC50 static
Ethylene glycol	6500 - 13000: 96 h Pseudokirchneriella subcapitata mg/L EC50	41000: 96 h Oncorhynchus mykiss mg/L LC50 14 - 18: 96 h Oncorhynchus mykiss mL/L LC50 static 16000: 96 h Poecilia reticulata mg/L LC50 static 40761: 96 h Oncorhynchus mykiss mg/L LC50 static 27540: 96 h Lepomis macrochirus mg/L LC50 static 40000 - 60000: 96 h Pimephales promelas mg/L LC50 static
Carbon Dioxide	-	-
Isopropyl alcohol	1000: 96 h Desmodesmus subspicatus mg/L EC50 1000: 72 h Desmodesmus subspicatus mg/L EC50	1400000: 96 h Lepomis macrochirus µg/L LC50 9640: 96 h Pimephales promelas mg/L LC50 flow-through 11130: 96 h Pimephales promelas mg/L LC50 static

Persistence and degradability Product is biodegradable.

Bioaccumulation Does not bioaccumulate

Chemical name	CAS-No	Partition coefficient (log Kow)
Methyl alcohol 67-56-1	67-56-1	-0.77
Ethylene glycol 107-21-1	107-21-1	-1.93
Carbon Dioxide 124-38-9	124-38-9	-
Isopropyl alcohol 67-63-0	67-63-0	0.05 25 °C

Mobility in soil This product is mobile in soil.

Other adverse effects None known

13. DISPOSAL CONSIDERATIONS

Disposal information Dispose of all product, residues and clean-up materials in accordance with local, state, and federal regulations.

Contaminated packaging Dispose in accordance with local, state and federal regulations. Waste likely considered non-hazardous under RCRA, however, product should be fully characterized prior to disposal(40 CFR 261).

14. TRANSPORTATION INFORMATION

Shipping Descriptions

DOT

ID-No UN1950
 Proper shipping name Aerosols
 Hazard Class(es) 2.1
 Subsidiary Risk
 Packing group
 Special Provisions LTD QTY

TDG

ID-No UN1950

Proper shipping name Aerosols
Hazard Class(es) 2.1
Packing group
Special Provisions LTD QTY

IATA

ID-No UN1950
Proper shipping name Aerosols, flammable
Hazard Class(es) 2.1
Subsidiary Risk
Packing group
Special Provisions LTD QTY

IMDG/IMO

ID-No UN1950
Proper shipping name Aerosols
Hazard Class(es) 2.1
Packing group
Special Provisions LTD QTY

Marine Pollutants

Chemical name	CAS-No	USDOT Marine Pollutant	Canada TDG Marine Pollutant	IMDG Marine Pollutant
Methyl alcohol	67-56-1	-	-	-
Ethylene glycol	107-21-1	-	-	-
Carbon Dioxide	124-38-9	-	-	-
Isopropyl alcohol	67-63-0	-	-	-

Special Precautions

Multi-modal shipping descriptions are provided for informational purposes and do not consider container size. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

15. REGULATORY INFORMATION**State regulations**

U.S. state Right-to-Know regulations See information below

Chemical name	CAS-No	Massachusetts - RTK	New Jersey - RTK	Pennsylvania - RTK
Methyl alcohol	67-56-1	X	X	X
Ethylene glycol	107-21-1	X	X	X
Carbon Dioxide	124-38-9	X	X	X
Isopropyl alcohol	67-63-0	X	X	X

California Prop. 65

WARNING: This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm

Chemical name	CAS-No	California Prop. 65
Methyl alcohol	67-56-1	Developmental

Chemical name	CAS-No	California Prop. 65
Ethylene glycol	107-21-1	Developmental
Carbon Dioxide	124-38-9	-
Isopropyl alcohol	67-63-0	-

U.S. Federal Regulations

US EPA SARA 313

See information below

Chemical name	CAS-No	CERCLA/SARA Hazardous Substances RQ	SARA 313 - Threshold Values
Methyl alcohol	67-56-1	5000 lb 2270 kg	1.0 %
Ethylene glycol	107-21-1	5000 lb 2270 kg	1.0 %
Carbon Dioxide	124-38-9	-	-
Isopropyl alcohol	67-63-0	-	1.0 %

US EPA SARA 311/312 hazardous categorization

Fire Hazard

International inventories

All components of this product are listed on the following inventories: U.S.A. (TSCA 8(b)), Canada (DSL/NDSL) or are exempt.

Chemical name	DSL/NDSL	Inventory - United States - Section 8(b) Inventory (TSCA)	U.S. - TSCA (Toxic Substances Control Act) - Section 12(b) - Export Notification
Methyl alcohol	X	X	-
Ethylene glycol	X	X	-
Carbon Dioxide	X	X	-
Isopropyl alcohol	X	X	-

16. OTHER INFORMATION

NFPA

Health	3
Flammability	3
Instability	1
Specific hazard	None

HMIS

Health	3
Flammability	3
Physical hazards	1
Personal protection	B

Notice: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by Regulatory Affairs

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Revision note

Key to abbreviations

ACGIH (American Conference of Governmental Industrial Hygienists)
ATE (Average Toxicity Estimate)
DSL/NDSL (Domestic Substance List/Non-Domestic Substance List)
HMIS (Hazardous Materials Identification System)
IARC (International Agency for Research on Cancer)
IATA (International Air Transport Association)
IMDG/IMO (International Maritime Dangerous Goods/International Maritime Organization)
NFPA (National Fire Protection Association)
NTP (National Toxicology Program)
OEL (Occupational Exposure Level)
OSHA (Occupational Safety and Health Administration of the US Department of Labor)
PEL (Permissible Exposure Limit)
TSCA (Toxic Substance Control Act)
USEPA (United States Environmental Protection Agency)

Disclaimer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

End of Safety Data Sheet