Safety Data Sheet

Issuing Date: 1-Jun-2008 **Revision Date: 27-Mar-2015** **SDS Number: 9199**

1. Identification of the Substance / Preparation and of the Company / Undertaking

Product identifier

Product Name **RAIN-X Deicer Spray Aerosol**

Stock Numbers **113569 / RX44014**

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Windshield Deicer - Aerosol

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name South/Win, Ltd
Supplier Address 112 Maxfield Rd.
Greensboro, NC 27405
US

Supplier Phone Number Phone: (800) 648-4393
Fax: (336) 398-5680

Emergency Telephone Number CHEMTREC: (800) 424-9300

2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Vapors)	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Specific target organ toxicity (single exposure)	Category 1

Flammable Aerosols	Category 1
Gases under pressure	Compressed gas

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word **Danger**

Hazard Statement:
- Toxic if inhaled
- Causes damage to organs
- Extremely flammable aerosol
- Contains gas under pressure; may explode if heated

Appearance Clear **Physical State** Liquid Spray Aerosol **Odor** Mild

Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Use only outdoors or in a well-ventilated area
Do not breathe dust/fume/gas/mist/vapors/spray
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Pressurized container. Do not pierce or burn, even after use
Do not spray on an open flame or other ignition source.

Precautionary Statements - Response
IF exposed: Call a POISON CENTER or doctor/physician
Specific treatment (see supplemental first aid instructions on this label)

Skin
Call a POISON CENTER or doctor/physician if you feel unwell
Wash contaminated clothing before reuse
IF ON SKIN wash with plenty of soap and water
Remove/take off immediately all contaminated clothing

Inhalation
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician

Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
Rinse mouth

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122 °F

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity
4.4% of the mixture consists of ingredient(s) of unknown toxicity

Other information

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION

Interactions with Other Chemicals
Use of alcoholic beverages may enhance toxic effects.

3. Composition / Information on Ingredients

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Chemical Name	CAS No	Weight-%	Trade Secret
Methyl alcohol	67-56-1	60 - 100	*
Silane	7803-62-5	3 - 7	*
Propylene Glycol	57-55-6	3 - 7	*
Carbon Dioxide	124-38-9	1 - 5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. First Aid Measures

First aid measures

General Advice Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice.

Skin Contact In case of contact with liquefied gas, thaw frosted parts with lukewarm water.

Inhalation Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Keep victim warm and quiet.

5. Fire-fighting Measures

Suitable Extinguishing Media
Use extinguishing agent suitable for type of surrounding fire. Dry chemical, CO2, water spray fog or regular foam. Move containers from fire area if you can it without risk. Damaged cylinders should be handled only by specialists.

Unsuitable extinguishing media
Do not extinguish a leaking gas fire unless leak can be stopped.

Specific Hazards Arising from the Chemical
Some may burn but none ignite readily. Ruptured cylinders may rocket.

Uniform Fire Code Aerosols: Level II

Hazardous Combustion Products
Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact Yes

Sensitivity to Static Discharge Yes

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk. Damaged cylinders should be handled only by specialists.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Stop leak if you can do it without risk. Do not touch or walk through spilled matrial.

Other Information Ventilate the area.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Use water spray to reduce vapors or divert vapor cloud drift. Avoid allowing water runoff to contact spilled material.

Methods and material for containment and cleaning up

Methods for Containment If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate.

Methods for cleaning up Do not direct water at spill or source of leak.

7. Handling and Storage

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Contents under pressure. Do not puncture or incinerate cans. Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with eyes. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store away from other materials. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products None known based on information supplied.

8. Exposure Controls / Personal Protection

Control parameters

Exposure Guidelines

Chemical	ACGIH TLV	OSHA PEL	NIOSH IDLH
Methyl alcohol 67-56-1	STEL = 250 ppm TWA: 200 ppm S*	TWA: 200 ppm TWA: 260 mg/m^3 (vacated) TWA: 200 ppm (vacated) TWA: 260 mg/m^3 (vacated) STEL: 250 ppm (vacated) STEL: 325 mg/m^3 (vacated) S*	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m^3 STEL: 325 mg/m^3 STEL: 250 ppm
Silane 7803-62-5	TWA: 5 ppm	(vacated) TWA: 5 ppm (vacated) TWA: 7 mg/m^3	TWA: 5 ppm TWA: 7 mg/m^3
Carbon Dioxide 124-38-9	STEL = 30000 ppm TWA: 5000 ppm	TWA: 5000 ppm TWA: 9000 mg/m^3 (vacated) TWA: 10000 ppm (vacated) TWA: 18000 mg/m^3 (vacated) STEL: 30000 ppm (vacated) STEL: 54000 mg/m^3	IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m^3 STEL: 30000 ppm STEL: 54000 mg/m^3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. No information available. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe vapor or mist. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and Chemical Properties

Physical and Chemical Properties

Physical State	Liquid Spray, Aerosol		
Appearance	Clear	**Odor**	Mild
Color	No information available	**Odor Threshold**	No information available

Property	Values	Remarks Method
pH	Unknown	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known

Specific Gravity	No data available	None known
Water Solubility	Completely soluble	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Explosive properties	No data available	None known
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribbution	

10. Stability and Reactivity

Reactivity

No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Excessive heat. Heat, flames and sparks.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

11. Toxicological Information

Information on likely routes of exposure

Product Information

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Inhalation Specific test data for the substance or mixture is not available. Toxic by inhalation. (based on components).

Eye Contact Specific test data for the substance or mixture is not available.

Skin Contact Specific test data for the substance or mixture is not available. Toxic in contact with skin. May be absorbed through the skin in harmful amounts. (Based on components).

Ingestion Specific test data for the substance or mixture is not available. May be harmful if swallowed. (based on components).

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methyl alcohol 67-56-1	= 5628 mg/kg (Rat)	-	= 83.2 mg/L (Rat) 4 h
Silane 7803-62-5	-	-	= 9600 ppm (Rat) 4 h
Propylene Glycol 57-55-6	= 20000 mg/kg (Rat)	= 20800 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms Coughing and/ or wheezing. Difficulty in breathing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity Contains no ingredient listed as a carcinogen.

Reproductive Toxicity No information available.

STOT - single exposure Based on classification criteria from the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200), this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE). If this product is a mixture, the classification is not based on toxicology studies for this product, but is based solely on toxicology studies for ingredients found within this product. Detailed substance and/or ingredient information may be provided in other sections of this SDS. Target organs effects listed in this document may result from a single overexposure to this product. Causes damage to organs if swallowed. Causes damage to organs in contact with skin.

STOT - repeated exposure	No information available.
Chronic Toxicity	Effects from this product caused by acute exposure may cause permanent damage to target organs and/or may cause chronic conditions.
Target Organ Effects	Respiratory system. Systemic Toxicity. Central Nervous System (CNS). Central Vascular System (CVS). Eyes. Gastrointestinal tract (GI). Skin. Lungs.
Aspiration Hazard	No information Available

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 135.00 mg/kg

ATEmix (dermal) 405.00 **mg/**kg (ATE)

ATEmix (inhalation-dust/mist) 0.68 mg/l

ATEmix (inhalation-vapor) 4.00 ATEmix

12. Ecological Information

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Methyl alcohol 67-56-1		96h LC50: = 28200 mg/L (Pimephales promelas) 96h LC50: > 100 mg/L (Pimephales promelas) 96h LC50: 19500 - 20700 mg/L (Oncorhynchus mykiss) 96h LC50: 18 - 20 mL/L (Oncorhynchus mykiss) 96h LC50: 13500 - 17600 mg/L (Lepomis macrochirus)	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	

Propylene Glycol 57-55-6	96h EC50: = 19000 mg/L (Pseudokirchneriella subcapitata)	96h LC50: = 51600 mg/L (Oncorhynchus mykiss) 96h LC50: 41 - 47 mL/L (Oncorhynchus mykiss) 96h LC50: = 51400 mg/L (Pimephales promelas) 96h LC50: = 710 mg/L (Pimephales promelas)	-	24h EC50: > 10000 mg/L 48h EC50: > 1000 mg/L

Persistence and Degradability
No information available.

Bioaccumulation

Chemical Name	Log Pow
Methyl alcohol 67-56-1	-0.77

Other adverse effects
No information available.

13. Disposal Considerations

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number U154 D001

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Methyl alcohol 67-56-1		Included in waste stream: F039		U154

California Hazardous Waste Codes 331

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Methyl alcohol 67-56-1	Toxic Ignitable

14. Transport Information

DOT

Proper Shipping Name	CONSUMER COMMODITY
Hazard Class	ORM-D
Description	CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number	126

TDG

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Subsidiary Class	6.1
Description	UN1950, AEROSOLS, 2.1 (6.1)

MEX

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Description	UN1950, AEROSOLS, 2.1

ICAO

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Subsidiary Class	6.1
Description	UN1950, AEROSOLS, 2.1 (6.1)

IATA

UN-No.	UN1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
Subsidiary Class	6.1
Description	UN1950, AEROSOLS, FLAMMABLE 2.1 (6.1)

IMDG/IMO

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Subsidiary Class	6.1

EmS-No.	F-D, S-U
Description	UN1950, AEROSOLS, 2.1 (6.1)

RID

UN-No.	UN0362
Proper Shipping Name	AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1 PACKING GROUP II
Hazard Class	1.4
Classification code	1.4G
Description	UN0362, AEROSOLS, FLAMMABLE, CONTAINING SUBSTANCES IN DIVISION 6.1, PACKING GROUP II, 1.4

ADR

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1 6.1
Classification code	5T
Tunnel restriction code	(D)
Description	UN1950, AEROSOLS, 2.1 (6.1)

ADN

UN-No.	UN1950
Proper Shipping Name	AEROSOLS
Hazard Class	2.1
Classification code	5T
Special Provisions	190, 327, 344, 625
Description	UN1950, AEROSOLS, 2.1 (6.1)
Hazard Labels	2.1 + 6.1
Limited Quantity	120 ML
Ventilation	VE02, VE04

15. Regulatory Information

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.
IECSC	-

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Methyl alcohol - 67-56-1	67-56-1	60 - 100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden release of pressure hazard	Yes
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Methyl alcohol 67-56-1	5000 lb		RQ= 2270 kg final RQ RQ= 5000 lb final RQ

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Methyl alcohol - 67-56-1	Developmental

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Methyl alcohol 67-56-1	X	X	X	X	X
Silane 7803-62-5	X	X	X		-
Propylene Glycol 57-55-6	X		X		

Carbon Dioxide 124-38-9	X	X	X		-

International Regulations

Mexico
National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Methyl alcohol 67-56-1 (60 - 100)		Mexico: TWA= 200 ppm Mexico: TWA= 260 mg/m³ Mexico: STEL= 250 ppm Mexico: STEL= 310 mg/m³
Silane 7803-62-5 (3 - 7)	-	Mexico: TWA 5 ppm Mexico: TWA 7 mg/m³
Carbon Dioxide 124-38-9 (1 - 5)	-	Mexico: TWA= 5000 ppm Mexico: TWA= 9000 mg/m³ Mexico: STEL= 15000 ppm Mexico: STEL= 27000 mg/m³

Mexico - Occupational Exposure Limits - Carcinogens

Canada
WHMIS Hazard Class
A – Compressed gases
B5 – Flammable aerosol

16. Other Information

NFPA	Health Hazards 2	Flammability 3	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 3*	Flammability 4	Physical Hazard 0	Personal Protection X

Prepared By: Randy Boitz

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.