

SAFETY DATA SHEET

GHS format

SECTION 1 IDENTIFICATION

Product Name: Spray-Sol (Aerosol)**Product Number(s):** 3910**Product Use:** Refrigeration Coil Cleaner **Restrictions on use:** None known**Manufactured by:** North American Research Corporation

P.O. Box 1318

519 Huffines Blvd.

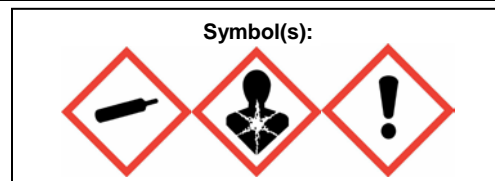
Lewisville, TX 75067

Lewisville, TX 75056

Telephone Numbers: (972) 492-1800, (800) 527-7520, Fax (972) 394-6755**Emergencies:** Infotrac (24 hours, everyday) (800) 535-5053 (US & Canada) 1 (352) 323-3500 (International)

SECTION 2 HAZARD(S) IDENTIFICATION

Classification	Category
Gasses under pressure	Compressed gas
Skin corrosion / irritation	2
Serious eye damage / eye irritation	2A
Skin sensitization	1
Germ cell mutagenicity	2
Carcinogenicity	1B
Specific target organ toxicity, single exposure	3 narcotic effects

**Signal Word:** Danger**Hazard statement(s):** Contains gas under pressure; may explode if heated. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Suspected of causing genetic defects. May cause cancer. May cause drowsiness or dizziness.

Precaution(s): Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing mist, vapors, or spray. Use only outdoors or in a well-ventilated area. Pressurized container: Do not pierce or burn, even after use. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, and eye and face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.

IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a well-ventilated place. Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other Hazards: None determined.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient Name	CAS Registry No.	Weight %
Trichloroethylene	79-01-6	90 – 99
Carbon dioxide (propellant)	124-38-9	1 – 5

SECTION 4 FIRST-AID MEASURES

Eye contact: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.**Inhalation** IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.**Skin contact:** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.**Ingestion:** IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. Rinse mouth.**Most important symptoms/effects:** Dermatitis. Rash. Symptoms of overexposure may be headache, dizziness, tiredness, nausea, and vomiting. May cause redness and pain.**Indication of immediate medical attention and special treatment needed, if necessary:****Notes to physician:** Treat symptomatically.**Specific treatments:** Show this safety data sheet to the doctor in attendance.

SECTION 5 FIRE-FIGHTING MEASURES**Suitable (and unsuitable) extinguishing media:**

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Specific hazards arising from the chemical:

Contents under pressure. Pressurized container may explode when heated.

Special protective equipment for fire-fighters: Use appropriate equipment for surrounding fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning-up:

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Following product recovery, flush area with water.

Environmental precautions:

Avoid discharge into drains, water courses or onto the ground.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling: Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities: KEEP OUT OF REACH OF CHILDREN. Contents under pressure. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Chemical name</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>NIOSH REL</u>
Trichloroethylene	79-01-6	TWA: 50 ppm STEL: 200 ppm	TWA: 10 ppm STEL: 25 ppm	—

Appropriate engineering controls: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Individual protection measures (PPE):

Consult supervisor for special handling instructions. Avoid contact with eyes. Avoid contact with skin. Keep away from food and drink. Wash hands before breaks and immediately after handling the product. Provide eyewash station and safety shower. Handle in accordance with good industrial hygiene and safety practice.

Eye protection: Wear safety glasses with side shields. If splash potential exists, wear full face shield or chemical goggles.

Hand protection: Wear suitable protective gloves.

Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be implemented whenever workplace conditions warrant use of a respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid in aerosol can	U/L flammability or explosive limits	Not determined
Odor	Sweet / Pungent	Vapor pressure	Not determined
Odor threshold	Not determined	Vapor density	4.5 (Air = 1)
pH	Not applicable	Relative density (specific gravity)	1.45
Melting point/freezing point	-124°F (-86°C)	Solubility(ies)	Negligible
Initial boiling point and boiling range	183-190°F (84-88°C)	Partition coefficient: n-octanol/water	Not determined
Flash point	Not applicable	Auto-ignition temperature	420°C
Evaporation rate	3.6 (n-butyl acetate = 1)	Decomposition temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

SECTION 10 STABILITY AND REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under normal temperature conditions and recommended use.

Possibility of hazardous reactions: Hazardous polymerization does not occur.

Conditions to Avoid: Heat, flames and sparks. Ignition sources. Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents, alkalis, finely divided aluminum.

Hazardous decomposition products: Carbon dioxide, carbon monoxide, chlorine compounds, phosgene.

SECTION 11 TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Ingestion: May cause discomfort if swallowed.

Inhalation: May cause drowsiness, dizziness, headache, or nausea. Vapors have a narcotic effect.

Eye contact: Causes serious eye irritation.

Skin contact: Causes skin irritation.

Symptoms related to the physical, chemical and toxicological characteristics: Irritation. Drowsiness and dizziness. May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

Numerical measure of toxicity, component information:

Chemical name	CAS	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Trichloroethylene	79-01-6	4,920 mg/kg (rat)	20 ml/kg (rabbit)	12,000 mg/L, (rat) 4 hours

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory sensitization: Not assigned.

Skin sensitization: May cause skin sensitization.

Germ cell mutagenicity: Suspected of causing genetic defects.

Carcinogenicity: Trichloroethylene (79-01-6)

IARC: Probably carcinogenic to humans Group 2A.

ACGIH: A2: Suspected human carcinogen.

NTP: Reasonably anticipated to be a human carcinogen.

OSHA: Not listed.

Reproductive Toxicity: No toxicity to reproduction.

Specific target organ toxicity, single exposure: May cause drowsiness or dizziness. Narcotic effects.

Specific target organ toxicity, repeated exposure: No data available.

Chronic effects: Prolonged inhalation may be harmful.

Further information: Solvents may degrease the skin.

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity: No information available.

Persistence and degradability: No information available.

Bioaccumulation potential: No information available.

Mobility in soil: No information available.

Other adverse effects: None known.

SECTION 13 DISPOSAL CONSIDERATIONS

Unused product: This product, as sold, if discarded or disposed, is a hazardous waste according to federal regulations. Dispose of container and contents in accordance with local, regional, national and international regulations.

Contaminated containers or packaging: Dispose of packaging or containers in accordance with local, regional, national and international regulations.

SECTION 14 TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
DOT (ground), IMDG	Aerosols, Limited Quantity	UN1950	–	2.2, 6.1 (PGIII)
IATA	Check regulations for proper air shipment			

SECTION 15 REGULATORY INFORMATION

TSCA: All components of this product are on the U.S. Toxic Substances Control Act (TSCA) Chemical Substances Inventory or are exempt.

CERCLA: Trichloroethylene (79-01-6); RQ 100 lbs.

SARA TITLE III:

Section 311/312 Hazard Category:

Acute: Yes

Chronic: Yes

Fire: No

Pressure: Yes

Reactive Hazard: No

Section 313 Reportable Ingredients: Trichloroethylene (79-01-6)

CALIFORNIA (Proposition 65): WARNING: This product contains the following chemicals known to the State of California to cause cancer and birth defects or other reproductive harm: Trichloroethylene (79-01-6).

SECTION 16 OTHER INFORMATION

Date Prepared: May 06, 2015 **Replaces:** Jan. 29, 2010

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