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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name AEROSOLVE II
Product use Aerosol Solvent Degreaser
Product code 0181
Date of issue 04/14/14 **Supersedes** 05/30/11

Emergency Telephone Numbers

For MSDS Information:

Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By

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Section 2. Hazards Identification

Emergency overview

WARNING

VAPOR HARMFUL. CONTENTS UNDER PRESSURE. CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

Do not breathe vapor or mist. Contains material that may cause target organ damage, based on animal data. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Dermal contact. Eye contact Inhalation.

Eyes

Causes eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

Causes skin irritation. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation

Avoid inhalation of vapor, spray or mist. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Ingestion

Aspiration hazard if swallowed. Can enter lungs and cause damage. Harmful if swallowed.

Chronic effects

Repeated or prolonged exposure to the substance can produce damage to central nervous system, peripheral nervous system, kidneys, liver and heart. May cause hearing impairment or change. Prolonged skin contact may cause dermatitis with drying and cracking of skin.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene
CARBON DIOXIDE

79-01-6
124-38-9

60 - 100
1 - 5

Section 4. First Aid Measures

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Skin Contact	Wash affected area with soap or mild detergent and water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Get medical attention if irritation develops.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point	Not applicable.
Flammable Limits	Not applicable.
Flammability	Non-flammable. (CSMA)
Auto-ignition Temperature	
Fire-Fighting Procedures	Use dry chemical or CO ₂ . Cool closed containers exposed to fire with water. Wear special protective clothing and positive pressure, self-contained breathing apparatus.
Fire hazard	CONTENTS UNDER PRESSURE. Container explosion may occur under fire conditions or when heated. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
Products of Combustion	carbon oxides (CO, CO ₂) Hydrogen chloride (HCl). Chlorine. and Phosgene gas.
Explosion hazard	

Section 6. Accidental Release Measures

Spill Clean up	Large spills are unlikely due to packaging.
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Section 7. Handling and Storage


Handling	Put on appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use only with adequate ventilation. Watch for accumulation in low confined areas.
Storage	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Do not store above the following temperature: 49°C (120.2°F). Do not puncture or incinerate container. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
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No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes	Recommended: Safety glasses.	
Hands and Body	Recommended: Chemical-resistant gloves. Viton®	
Respiratory	Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Aerosol.)	Color	Clear. Colorless.
pH	Not applicable.	Odor	Mild. Solvent.
Boiling Point	87.22°C (189°F)	Vapor Pressure	Not available.
Specific Gravity	1.46	Vapor Density	Not available.
Solubility	Insoluble in the following materials: cold water and hot water.	Evaporation Rate	<1 (Carbon tetrachloride = 1)

Freezing Point**VOC (Consumer)** 96.9% 11.78 (lb/gal) 1412 (g/l).**Section 10. Stability and Reactivity****Stability and Reactivity**

The product is stable.

Incompatibility

Reactive or incompatible with the following materials: oxidizing materials, metals and alkalis.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information**Carcinogenicity****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
trichloroethylene	LC50 Inhalation Vapor	Rat	140700 mg/m ³	1 hours
	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Mouse	2402 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-

Mutagenicity**Conclusion/Summary** : Not available.**Teratogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Section 12. Ecological Information****Aquatic Ecotoxicity**

trichloroethylene	-	Acute EC50 95000 µg/l	Algae - Diatom -	96 hours
	-	Marine water	Skeletonema costatum	
	-	Acute EC50 36.5 mg/l	Algae - Green algae -	72 hours
	-	Fresh water	Chlamydomonas reinhardtii - Exponential growth phase	
	-	Acute LC50 20 mg/l	Crustaceans - Australian	48 hours
	-	Marine water	Barnacle - Elminius modestus	
	-	Acute LC50 18000 µg/l	Daphnia - Water flea -	48 hours
	-	Fresh water	Daphnia magna	
	-	Acute LC50 3100 µg/l	Fish - Flagfish -	96 hours
	-	Fresh water	Jordanella floridae - Juvenile (Fledgling, Hatchling, Weanling)	
	-	Chronic EC10 12.3 mg/l	Algae - Green algae -	72 hours
	-	Fresh water	Chlamydomonas reinhardtii - Exponential growth phase	
	-	Chronic NOEC 1.384 mg/l	Daphnia - Water flea -	21 days
	-	Fresh water	Daphnia magna	

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.


Waste Stream

Code: D040, U228

Classification: - [Hazardous waste.]

Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	1950	Aerosols, non-flammable	2.2			<u>Explosive Limit and Limited Quantity Index</u> 1
IMDG Class						

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. Limited Quantity: Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada****WHMIS (Canada)**

Class A: Compressed gas.

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

Class D-2B: Material causing other toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.