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Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name **ZEP AID**

Product use Aerosol Lubricant and Release Agent

Product code **0193**

Date of issue **12/18/08** **Supersedes 08/02/06**

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

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Prepared By
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Section 2. Hazards Identification

Emergency overview

CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

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** Absorbed through skin. Inhalation.

Eyes Irritating to eyes. Liquid in eye may cause irritation with possible damage if not rinsed immediately.

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

Inhalation Irritating to respiratory system. Can cause central nervous system (CNS) depression. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Prolonged repeated exposure may cause chemical pneumontitis.

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

Chronic effects Contains material which may cause damage to the following organs: kidneys, heart (cardiac) liver, peripheral nervous system, and central nervous system (CNS).
Defatting to the skin. 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

TRICHLOROETHYLENE; acetylene trichloride; 1-chloro-2,2-dichloroethylene	79-01-6	60 - 100
CARBON DIOXIDE	124-38-9	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 immediately.

Skin Contact Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 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, keep head lower than hips to help prevent aspiration. 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 determined.

Flammability Non-flammable. (CSMA)

Auto-ignition Temperature

Fire-Fighting Procedures In case of fire, use water spray (fog), foam or dry chemical. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Thermal decomposition of product can produce toxic vapors of _____Chlorine., Hydrogen chloride (HCl). and Phosgene gas.

Products of Combustion Decomposition products may include the following materials:
Phosgene gas. Hydrogen chloride (HCl). carbon oxides (CO, CO_2) carbonyl halides and Chlorine.

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Large spills are unlikely due to packaging. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Storage Do not store above the following temperature: 49°C (120.2°F). 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 puncture or incinerate container. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
Trichloroethylene	**ACGIH TLV (United States).** TWA: 10 ppm 8 hour(s). STEL: 25 ppm 15 minute(s). **OSHA PEL (United States).** TWA: 50 ppm 8 hour(s). STEL: 200 ppm 15 minute(s).
Carbon Dioxide	**ACGIH TLV (United States).** TWA: 5000 ppm 8 hour(s). STEL: 30000 ppm 15 minute(s).

Personal Protective Equipment (PPE)

Eyes Chemical splash goggles.

Hands and Body Chemical-resistant gloves.

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. Wear appropriate respirator when ventilation is inadequate. Approved/certified respirator with organic vapor cartridge.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Aerosol.]

pH Not available.

Boiling Point 87.2°C (189°F)

Specific Gravity 1.44

Solubility Insoluble in the following materials: cold water and hot water.

Freezing Point

Color Clear. Colorless.

Odor Mild. Solvent-like.

Vapor Pressure 8 kPa (60 mm Hg)

Vapor Density Not determined.

Evaporation Rate 4.5 (Butyl acetate. = 1)

VOC (Consumer) 93.9% 11.3 (lbs/gal)

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 Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Trichloroethylene	LD50 Dermal	Rabbit	10000 mg/kg	-
	LD50 Oral	Rat	4920 mg/kg	-
	LD50 Oral	Mouse	2402 mg/kg	-

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

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
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 (6.1)	-		**Explosive Limit and Limited Quantity Index** 1
IMDG Class	Not available.	Not available.	Not available.	-		-

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-2A: Material causing other toxic effects (Very toxic).

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

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.