



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ZEP 50
Product use Degreaser
Product code 0150
Date of issue 09/16/14 **Supersedes** 12/05/11

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

CAUTION !

MAY BE HARMFUL IF ABSORBED THROUGH SKIN OR IF SWALLOWED.

Do not breathe vapor or mist. Do not ingest. Do not get in eyes. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling.

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

Eye contact. Dermal contact. Inhalation

Eyes

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

Skin

Harmful in contact with skin. Irritating to skin. Skin inflammation is characterized by itching, scaling, or reddening. May cause allergic reactions in certain individuals.

Inhalation

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion

Harmful if swallowed. Unlikely in this form.

Chronic effects

Contains material which may cause damage to the following organs: blood, kidneys, lungs, liver, central nervous system (CNS), eye, lens or cornea, nose/sinuses.
Prolonged or repeated contact may dry skin and cause irritation.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	5 - 10
HEAVY AROMATIC NAPHTHA; solvent naphtha (petroleum); heavy aromatics	64742-94-5	5 - 10
SODIUM DODECYLBENZENE SULFONATE; linear alkyl aryl sodium sulfonate; Sodium DDBSA	25155-30-0	5 - 10
BLEND OF ISOBUTANE & PROPANE	74-98-6; 75-28-5	3 - 7
MONOETHANOLAMINE; 2-aminoethanol; MEA	141-43-5	1 - 5
TETRAPOTASSIUM PYROPHOSPHATE; tkpp; diphosphoric acid, tetrapotassium salt	7320-34-5	1 - 5
DIETHYLENE GLYCOL MONOBUTYL ETHER; 2-(2-butoxyethoxy)-ethanol; butyl carbitol	112-34-5	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.
Skin Contact	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if irritation develops. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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 available.
Flammable Limits	Not available.
Flammability	Non-flammable. (CSMA)
Auto-ignition Temperature	
Fire-Fighting Procedures	Use an extinguishing agent suitable for the surrounding fire. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Cool closed containers exposed to fire with water.
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.
Products of Combustion	Decomposition products may include the following materials: nitrogen oxides phosphorus oxides metal oxide/oxides
Explosion hazard	Not available.

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	Avoid contact with eyes, skin and clothing. Avoid breathing vapors, spray or mists. Wash thoroughly after handling. Wash contaminated clothing before reusing.
Storage	CONTENTS UNDER PRESSURE. 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**

Heavy Aromatic Naphtha

Exposure limits**OSHA PEL / VPEL / ACGIH TLV (United States).**

TWA: 10 ppm 8 hour(s).

OSHA VPEL / ACGIH TLV (United States).

STEL: 15 ppm 15 minute(s).

ACGIH TLV (United States).

TWA: 800 ppm 8 hour(s).

OSHA PEL (United States).

TWA: 1000 ppm 8 hour(s).

OSHA PEL / ACGIH TLV (United States).

TWA: 3 ppm 8 hour(s).

OSHA /ACGIH (United States).

STEL: 6 ppm 15 minute(s).

Manufacturer (United States).

TWA: 35 ppm 8 hour(s).

Blend of Propane and Isobutane

Monoethanolamine

Diethylene Glycol Monobutyl Ether

Personal Protective Equipment (PPE)**Eyes**

Safety glasses.

**Hands and Body**

Neoprene gloves. or Nitrile gloves. or Rubber 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.

Section 9. Physical and Chemical Properties

Physical State Liquid. [Thin liquid Aerosol.]
pH Not available.
Boiling Point 100°C (212°F)
Specific Gravity 0.996
Solubility
Freezing Point

Color Milky-white
Odor Citrus
Vapor Pressure Not available.
Vapor Density Not available.
Evaporation Rate Not available.
VOC (Consumer) 27.4%

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.
Incompatibility Reactive or incompatible with the following materials: oxidizing materials.
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 No known significant effects or critical hazards.

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Sodium Dodecylbenzene Sulfonate	LD50 Oral	Mouse	2000 mg/kg	-
2-aminoethanol	LD50 Oral	Rat	1260 mg/kg	-
	LD50 Dermal	Rabbit	>1000 mg/kg	-
	LD50 Oral	Rat	1720 mg/kg	-
2-(2-butoxyethoxy)ethanol	LD50 Oral	Rat	1720 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Dermal	Rabbit	2700 mg/kg	-
	LD50 Oral	Mouse	2400 mg/kg	-
	LD50 Oral	Rat	4500 mg/kg	-
	LD50 Oral	Rat	5660 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: - [Not applicable.]
Classification: - [Non-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	-		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-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.