



ZEP Inc.
11627 178th Street
Edmonton, Alberta T5S 1N6
1-877-I-BUY-ZEP (428-9937)
Superior Solutions www.zep.com

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name ZEP SUPER PENETRANT
Product use Penetrant. spray. Aerosol.
Product code 0250
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

Technical Services Group
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Section 2. Hazards Identification

Emergency overview

WARNING

CONTENTS UNDER PRESSURE. FLAMMABLE.

Flammable aerosol. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data.

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. Inflammation of the eye is characterized by redness, watering and itching. May cause corneal opacity.

Skin

Irritating to skin. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, or reddening.

Inhalation

Harmful by inhalation. Medical conditions aggravated by over-exposure: heart (cardiac) Respiratory 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.

Chronic effects

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, the reproductive system, liver, mucous membranes, brain, skin, eyes, central nervous system (CNS), ears, testes.

Prolonged skin contact may cause dermatitis with drying and cracking of skin. Repeated or prolonged exposure to the substance can produce target organs damage.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

ALIPHATIC NAPHTHA; ligroin; stoddard solvent
BLEND OF ISOBUTANE & PROPANE

CAS number

8052-41-3
74-98-6; 75-28-5

% by Weight

10 - 30
7 - 13

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	Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
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.
Ingestion	Aspiration hazard if swallowed. Can enter lungs and cause damage. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. 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.

Section 5. Fire Fighting Measures

Flash Point	Closed cup: 41.6°C (107°F).
Flammable Limits	Not available.
Flammability	Extremely flammable. (CSMA) Aerosol that may flash back.
Auto-ignition Temperature	
Fire-Fighting Procedures	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use dry chemical or CO ₂ or Foam.
Fire hazard	Flammable aerosol. Combustible material. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
Products of Combustion	carbon oxides (CO, CO ₂) and other unidentified organic compounds
Explosion hazard	Not available.

Section 6. Accidental Release Measures

Spill Clean up	Large spills are unlikely due to packaging. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.
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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. Store and use away from heat, sparks, open flame or any other ignition source. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Empty containers retain product residue and can be hazardous. Wash thoroughly after handling.
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. Eliminate all ignition sources. CONTENTS UNDER PRESSURE. Do not puncture or incinerate container. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection**Product name** **Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes	Recommended: Safety glasses.	
Hands and Body	Recommended: Chemical-resistant gloves. Neoprene Nitrile	
Respiratory	Recommended: 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.	

Section 9. Physical and Chemical Properties

Physical State	Thin liquid - Aerosol.	Color	Clear.
pH	Not available.	Odor	Solvent-like.
Boiling Point	151.67°C (305°F)	Vapor Pressure	Not determined.
Specific Gravity	0.8	Vapor Density	Not determined.
Solubility	Insoluble in the following materials: cold water and hot water.	Evaporation Rate	Not determined.
Freezing Point		VOC (Consumer)	49.9% 3.3 (lbs/gal) 398 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Reactive or incompatible with the following materials: oxidizing materials. Keep away from heat, sparks and flame.
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	Not available.
Acute toxicity	
Mutagenicity	
Conclusion/Summary	: Not available.
Teratogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	
Conclusion/Summary	: Not available.

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: D001
	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, flammable	2.1	-		<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 B-5: Flammable aerosol.

WHMIS Class D-2A: Material causing other toxic effects (Very 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.