



# Material Safety Data Sheet

Revision Date 06-Mar-2014

## 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product code** 19945  
**Product name** Spray Zinc  
**Recommended Use** Coating

**Supplier** Lawson Products, Inc.  
8770 W.Bryn Mawr Ave.- Suite 900  
Chicago, IL 60631  
1-866-529-7664

**Emergency telephone number** (888) 426-4851

## 2. HAZARDS IDENTIFICATION

**Emergency Overview**  
Extremely flammable. Irritant.

**Aggravated Medical Conditions**  
None Known.

**Principal Routes of Exposure**  
Eyes. Inhalation.

### Potential health effects

**Eyes** Exposure to vapors will cause the following effects.  
Irritation. Swelling.

**Skin** Exposure to vapors will cause the following effects.  
Skin Irritation.

**Inhalation** Exposure to vapors will cause the following effects.  
Irritation of the nose or throat. Central nervous system effects. Dizziness. Headaches. Fatigue. Nausea. Extreme overexposure may cause. Kidney damage. Lung damage. Liver damage. Cardiac abnormalities. Damage to blood. Misuse by deliberately concentrating vapors and inhaling contents can be harmful or fatal.

**Ingestion** May be harmful if swallowed.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Toluene	108-88-3	10-30
Propane	74-98-6	7-13
Isobutyl acetate	110-19-0	7-13
Mineral Spirits	64742-47-8	3-7

N-Butane	106-97-8	3-7
Zinc oxide	1314-13-2	0.5-1.5

## 4. FIRST AID MEASURES

**Eye contact** Remove to fresh air. Rinse thoroughly with plenty of water, also under the eyelids. Seek medical attention if irritation persists.

**Skin contact** Wash area thoroughly with soap and water. Remove and wash contaminated clothing before re-use.

**Ingestion** Call a physician or Poison Control Center immediately.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

## 5. FIRE FIGHTING MEASURES

**Flash point °C** -19  
**Flash point °F** -2  
**Method** No information available

**Autoignition temperature °C** Product is not self-igniting  
**Autoignition temperature °F**

**Flammability Limits (% in Air)**  
**Upper** 7.0  
**Lower** 1.2

**Suitable extinguishing media**  
Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam. Sand.

**Special protective equipment for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

**Fire and Explosion Hazards**  
Aerosol containers may vent, rupture or burst when heated to temperatures above 120°F. Vapors may form explosive mixture in air between upper and lower explosive limits which can be ignited by many sources, such as pilot lights, open flames, electrical motors and switches.

**Sensitivity to shock**  
No information available.

**Sensitivity to static discharge**  
No information available.

**6. ACCIDENTAL RELEASE MEASURES****Methods for cleaning up**

Personnel should wear appropriate protective equipment. Follow all precautions for handling. Please refer to appropriate sections of MSDS for additional information. Evacuate area of unprotected and unnecessary personnel. Do not allow product to reach sewage system, soil, surface or ground water, or any water course. Notify proper authorities if entry occurs. Do not flush with water or aqueous cleansing agents. Use diluted caustic solution. Soak up with inert absorbent material. Dispose of absorbent in accordance with local, state and federal regulations.

**7. HANDLING AND STORAGE****Handling**

Do not spray on a naked flame or any other incandescent material. Do not smoke. Protect against electrostatic charges.

**Storage**

Small pressurized containers of flammable product may be stored in areas suitable for ordinary combustibles with respect to construction, drainage, control of ignition sources, and ventilation except that they should not be stored in basements. Keep away from heat. Keep away from direct sunlight. Do not freeze.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Chemical Name	OSHA PEL (TWA)	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Toluene	200 ppm	300 ppm	20 ppm	-
Propane	1000 ppm 1800 mg/m <sup>3</sup>	-	1000 ppm	-
Isobutyl acetate	150 ppm 700 mg/m <sup>3</sup>	-	150 ppm	-
Mineral Spirits	-	-	-	-
N-Butane	-	-	-	1000 ppm
Zinc oxide	5 mg/m <sup>3</sup> 15 mg/m <sup>3</sup>	-	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**Ventilation and Environmental Controls**

Adequate ventilation should be provided to keep exposure levels below current acceptable exposure limits.

**Hygiene measures**

Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and immediately after handling the product.

**Respiratory protection**

None necessary under normal conditions. Use NIOSH approved respirator if TLV limit is exceeded.

**Hand Protection**

Chemical resistant gloves. Consult glove manufacturer to determine the proper type for a specific operation.

**Eye protection**

Tightly fitting safety goggles.

**Skin and body protection**

None necessary under normal conditions

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form</b>	Aerosol
<b>Color</b>	Gray
<b>Odor</b>	Solvent
<b>Odor Threshold</b>	No information available
<b>pH</b>	No data available
<b>Specific Gravity</b>	0.77-0.85
<b>Vapor pressure</b>	40 PSI @ 70 F
<b>Density</b>	1.257 g/cm <sup>3</sup> @ 20°C (68°F)
<b>Vapor density</b>	No data available
<b>Evaporation Rate</b>	No data available
<b>Water solubility</b>	No data available
<b>VOC Content</b>	47.5%; 597 g/l; 4.98 lb/gal
<b>Solids content</b>	52.5%
<b>MIR value</b>	0.98
<b>Partition Coefficient (n-octanol/water)</b>	No data available
<b>Boiling point/range °C</b>	-44
<b>Boiling point/range °F</b>	-47
<b>Melting point/range °C</b>	No data available
<b>Melting point/range °F</b>	No data available
<b>Flash point °C</b>	-19
<b>Flash point °F</b>	-2
<b>Ignition temperature °C</b>	210
<b>Ignition temperature °F</b>	410

**10. STABILITY AND REACTIVITY****Stability**

Stable under normal conditions.

**Conditions to avoid**

Do not store in temperatures above 120 degrees F.

**Incompatibility**

None known.

**Hazardous Decomposition Products**

None known.

**Polymerization**

Hazardous polymerization does not occur

**11. TOXICOLOGICAL INFORMATION****Component Information**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
<i>Toluene</i> 108-88-3	636 mg/kg	8390 mg/kg	12.5 mg/L
<i>Propane</i> 74-98-6	-	-	658 mg/L
<i>Isobutyl acetate</i> 110-19-0	13400 mg/kg	17400 mg/kg	-
<i>Mineral Spirits</i> 64742-47-8	5000 mg/kg	2000 mg/kg	5.2 mg/L
<i>N-Butane</i> 106-97-8	-	-	658 g/m <sup>3</sup>

Product code **19945**Product name **Spray Zinc**

Chemical Name	LD50 (oral, rat)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat)
Zinc oxide 1314-13-2	5000 mg/kg	-	-

**Synergistic Products** None known**Potential health effects****Sensitization** None known**Chronic toxicity** None known**Mutagenic effects** None known**Teratogenic effects** None known**Reproductive toxicity** None known

**Target Organ Effects** Reports have associated prolonged overexposure to solvents with permanent brain and nervous system damage. Prolonged or repeated occupational overexposure may affect the following: Kidney. Lungs. Liver. Heart. Blood.

**Carcinogenic effects** See table below

Chemical Name	ACGIH OEL - Carcinogens	IARC	NTP - Known Carcinogens	NTP - Suspected Human Carcinogens	OSHA RTK Carcinogens
Toluene	A4	Not Listed	Not Listed	Not Listed	Not Listed
Propane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Isobutyl acetate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Mineral Spirits	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
N-Butane	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Zinc oxide	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

**12. ECOLOGICAL INFORMATION****Toluene****Microtox Data***Photobacterium phosphoreum* EC50=19.7 mg/L (30 min)**Water Flea Data***Daphnia magna* EC50=5.46 - 9.83 mg/L (48 h)*Daphnia magna* EC50=11.5 mg/L (48 h)**Aquatic toxicity** Harmful to aquatic organisms**13. DISPOSAL CONSIDERATIONS****Disposal Information**

Dispose in accordance with federal, state, and local regulations. Do not puncture or incinerate. Please recycle empty container whenever possible.

**14. TRANSPORTATION INFORMATION****DOT**

Consumer commodity, ORM-D.

**TDG**

UN1950 AEROSOLS, flammable, 2.1

**15. REGULATORY INFORMATION**

Chemical Name	US EPA SARA 313 Emission Reporting
Zinc oxide	Listed

**State Regulations**

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Toluene	Listed	Listed	Developmental Female Reproductive
Propane	Listed	Listed	Not Listed
Isobutyl acetate	Listed	Listed	Not Listed
Mineral Spirits	Not Listed	Not Listed	Not Listed
N-Butane	Not Listed	Listed	Not Listed
Zinc oxide	Listed	Listed	Not Listed

Chemical Name	Type
Toluene - 108-88-3	Female Reproductive

**International Inventories**

Chemical Name	EINECS	DSL	NDSL	TSCA
Toluene	X	X	-	X
Propane	X	X	-	X
Isobutyl acetate	X	X	-	X
Mineral Spirits	X	X	-	X
N-Butane	X	X	-	X
Zinc oxide	X	X	-	X

**CPR**

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

**16. OTHER INFORMATION****NFPA**

**Health - 1**  
**Flammability - 4**

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Product name **Spray Zinc**

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**16. OTHER INFORMATION**

Reactivity - 3

**HMIS**

Health - 1

Flammability - 4

Physical Hazard - 3

**Prepared By**

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Engineer

The information accumulated herein is believed to be accurate, but is not warranted to be, whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.