Chemical Name: Spray Zinc

Manufacturer: Lawson Products

Container Size: 15 oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.

Material Safety Data Sheet

Revision Date *07-Apr-2008*

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product code 19945
Product name Spray Zinc
Recommended Use Coating

Supplier
Lawson Products, Inc.
1666 East Touhy Avenue
Des Plaines, IL 60018
(847)-827-9666

Emergency telephone number (888) 426-4851

2. HAZARDS IDENTIFICATION

Emergency Overview
Extremely flammable. Irritant.

Color Gray **Odor** Solvent **Form** Aerosol

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 (CO2). 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

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

Exposure limits

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^3	-	1000 ppm	-
Isobutyl acetate	150 ppm 700 mg/m^3	-	150 ppm	-
Mineral Spirits	-	-	-	-
N-Butane	-	-	1000 ppm	-
Zinc oxide	15 mg/m^3 total 5 mg/m^3	-	2 mg/m^3	10 mg/m^3

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.

Personal protective equipment

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

Form	Aerosol	**Color**	Gray
Odor	Solvent	**Odor Threshold**	No information available
pH	No data available	**Specific Gravity**	0.77-0.85
Vapor pressure	40 PSI	**Vapor density**	No data available
Evaporation Rate	No data available	**Density**	1.257 g/cm³ @ 20°C (68°F)
VOC Content	47.5%; 597 g/l; 4.98 lb/gl	**Solids content**	52.5%
Water solubility	No data available	**Partition Coefficient (n-octanol/water)**	No data available
MIR value	0.98		
		Boiling point/range °C	-44
Boiling point/range °F	-47	**Melting point/range °C**	No data available
Melting point/range °F	No data available	**Flash point °C**	-19
Flash point °F	-2	**Ignition temperature °C**	210
Ignition temperature °F	410		

10. STABILITY AND REACTIVITY

Stability
Stable under normal conditions.

Conditions to avoid
Do not store in temperatures above 120 degrees F.

Incompatability
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)
Toluene *108-88-3*	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm	12.5 mg/L 12124 mg/kg 636 mg/kg 8390 mg/kg 26700 ppm
Propane *74-98-6*	658 mg/L	658 mg/L	658 mg/L
Isobutyl acetate *110-19-0*	13400 mg/kg 5000 mg/kg	13400 mg/kg 5000 mg/kg	13400 mg/kg 5000 mg/kg

Chemical Name	LD50 (oral,rat)	LD50 (dermal,rat/rabbit)	LC50 (inhalation,rat)
Mineral Spirits *64742-47-8*	2000 mg/kg 5.2 mg/L 5000 mg/kg	2000 mg/kg 5.2 mg/L 5000 mg/kg	2000 mg/kg 5.2 mg/L 5000 mg/kg
N-Butane *106-97-8*	658 mg/L	658 mg/L	658 mg/L
Zinc oxide *1314-13-2*	5000 mg/kg	5000 mg/kg	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 Classifiable as a Human Carcinogen	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=11.3 mg/L (48 h)
water flea EC50=11.3 mg/L (48 h)
water flea EC50=310 mg/L (48 h)

Isobutyl acetate

Water Flea Data

Daphnia magna EC50=168 mg/L (24 h)

Mineral Spirits

Water Flea Data

Den-dronereides heteropoda LC50=4720 mg/L (96 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.

Waste from residues / unused products

No information available

14. TRANSPORT INFORMATION

DOT

Consumer commodity, ORM-D

TDG

UN1950 AEROSOLS, flammable, 2.1

IMDG/IMO

UN1950 Aerosols, flammable, 2.1

IATA

UN1950 Aerosols, flammable, 2.1

MEX

UN1950 Aerosols, flammable, 2.1

15. REGULATORY INFORMATION

Chemical Name	US EPA SARA 313 Emission Reporting
Toluene	Listed
Zinc oxide	Listed

Chemical Name	New Jersey - RTK	Pennsylvania - RTK	California Prop. 65
Toluene	Listed	Listed	Developmental
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	Listed	Not Listed

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

CPRC 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		HMIS	
Health	1	**Health**	1
Flammability	4	**Flammability**	4
Reactivity	3	**Physical Hazard**	3

Prepared By Michael Katz, Regulatory Affairs Specialist

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.