



VAPCO PRODUCTS, INC.

**Safety Data Sheet
Zinc-Spray**

SECTION 1: Identification

GHS Product identifier

Product name	Zinc-Spray
Product number	ZS-1
Brand	Vapco

Recommended use of the chemical and restrictions on use

Zinc Cold Galvanizing Coating Aerosol

Supplier's details

Name	Vapco Products, Inc.
Address	401 Marshall Road Valley Park, Missouri 63088 United States
Telephone	(636) 923-2121
Fax	(636) 923-3002
email	info@VapcoProducts.com

Emergency phone number

(800) 255-3924

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Carcinogenicity, Cat. 1A
- Eye damage/irritation, Cat. 2A
- Flammable aerosols, Cat. 1
- Germ cell mutagenicity, Cat. 1B
- Gases under pressure, liquefied gas

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- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H222	Extremely flammable aerosol
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H350	May cause cancer

Precautionary statement(s)

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands and other exposed areas thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and mild soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P321	Specific treatment (see First Aid on this label).
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container to the specifications of local, regional, national, and international regulations.

SECTION 3: Composition/information on ingredients

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Mixtures

Hazardous components

1. Petroleum gases, liquefied, sweetened, if they contain > 0.1% w/w Butadiene

Concentration 15 - 40 % (weight)
EC no. 270-705-8
CAS no. 68476-86-8
Index no. 649-203-00-1

2. Heptane

Concentration 10 - 30 % (weight)
EC no. 205-563-8
CAS no. 142-82-5
Index no. 601-008-00-2

3. Acetone

Concentration 7 - 13 % (weight)
EC no. 200-662-2
CAS no. 67-64-1
Index no. 606-001-00-8

4. XYLENES (MIXED)

Concentration 1 - 5 % (weight)
EC no. 215-535-7
CAS no. 1330-20-7
Index no. 601-022-00-9

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
If inhaled	First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Get medical advice/attention.
In case of skin contact	Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing immediately. Obtain medical attention if irritation develops or persists.
In case of eye contact	Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
If swallowed	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

Most important symptoms/effects, acute and delayed

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Acute Health Hazards

Eyes: Redness, tearing, blurred vision

Skin: Defatting and dermatitis

Inhalation: Anesthetic, irritation, Central Nervous System depression

Oral: Abdominal irritation, nausea, vomiting, diarrhea, and aspiration risk

Chronic Health Hazards: Skin disorders, drying and irritation of the skin

Note to Physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

Indication of immediate medical attention and special treatment needed, if necessary

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Dry chemical, foam, or carbon dioxide (CO₂).

Specific hazards arising from the chemical

Explosion Hazard: Container may explode in heat of fire. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. If exposed to strong oxidizers, presents explosion hazard.

Incompatibility: Some plastics, strong oxidizing agents, acids, caustics, alkalis, and chemically active metals.

Special protective actions for fire-fighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use dry chemical, foam, or carbon dioxide (CO₂). Do not breathe fumes from fire or vapors from decomposition. Do NOT fight fire when fire reaches containers. Evacuate area. Fight fire remotely due to the risk of explosion. Shut off all sources of ignition. Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Wear NIOSH-approved Self-Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.

Hazardous Combustion Products: Carbon oxides (CO, CO₂)

Further information

Do not allow run-off from fire fighting to enter drain or water courses.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapors, spray, mist, gas. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedure: Eliminate ignition source first, then ventilate the area. Evacuate unnecessary personnel, isolate, and ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

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Environmental precautions

Prevent entry into sewers and public waters. Avoid release to the environment.

Methods and materials for containment and cleaning up

For Containment: Ventilate area. Contain any spills with dikes or absorbents to prevent further migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Eliminate all ignition sources. Ventilate area. Stop the ignition source of the release, if safe to do so. Consider the use of water spray to disperse vapors. Isolate the area until gas has dispersed. Ventilate and gas test area before entering. Take up liquid spill into absorbent material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Waste Disposal: Dispose of in accordance with local, regional, national, and international regulations. Containers may be hazardous when empty. Do not flame cut, braze, or weld.

RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: Handling and storage

Precautions for safe handling

Additional Hazards When Processed: Do not pressurize, cut, or weld containers. Ruptured cylinders may rocket. Pressurized container: May burst if heated. Do not pierce or burn, even after use.

Precautions for Safe Handling: Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe gas, mist, spray, vapors. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not spray on open flame or other ignition source.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

Other Precautions: Keep out of reach of children. Follow label instructions. Vapors may collect in low lying area.

Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations. Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool place. Keep only in the original container in a cool, well-ventilated place away from ignition sources. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

Incompatible Materials: Some plastics, strong oxidizing agents, acids, caustics, alkalis, and chemically active metals.

Storage Temperature: <50°C/122°F.

Specific end use(s)

Zinc Cold Galvanizing Coating Aerosol

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 1330-20-7

XYLENES (MIXED)

Cal/OSHA: 100 ppm, (ST) 150 ppm, (C) 300 ppm PEL inhalation; NIOSH: 100 ppm, (ST) 150 ppm REL inhalation; OSHA: 100 ppm PEL inhalation; 435 mg/m³ PEL inhalation

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CAS: 142-82-5

Heptane

NIOSH (USA): 85 ppm, (ST) 440 ppm [15-min] REL inhalation; OSHA (USA): 500 ppm PEL inhalation; 2,000 mg/m³ PEL inhalation; 400 ppm, (ST) 500 ppm PEL inhalation

CAS: 67-64-1

Acetone

ACGIH (USA): 250 ppm, (ST) 500 ppm TLV® inhalation; Cal/OSHA: 500 ppm, (ST) 750 ppm, (C) 3000 ppm PEL inhalation; NIOSH: 250 ppm REL inhalation; OSHA: 1000 ppm PEL inhalation; 2400 mg/m³ PEL inhalation

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Use explosion-proof equipment. Proper grounding procedures to avoid static electricity should be followed. Use only outdoors or in well-ventilated area. Ensure all local, regional, national, and international regulations are observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Chemical safety goggles. Insufficient ventilation: wear respiratory protection. Respiratory protection of the dependent type.

Skin protection

Wear protective gloves and clothing.

Body protection

Wear suitable protective clothing. Wear protective gloves. Chemical resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

Respiratory protection

Use a NIOSH-approved Self-Containing Breathing Apparatus whenever exposure may exceed established Occupational Exposure Limits.

SECTION 9: Physical and chemical properties and safety characteristics

Basic physical and chemical properties

Physical state	Liquid
Appearance	Aerosol Spray
Color	Gray
Odor	Solvent odor
Odor threshold	N/D
Melting point/freezing point	N/D
Boiling point or initial boiling point and boiling range	N/D
Flammability	Extremely flammable aerosol

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Lower and upper explosion limit/flammability limit	N/A
Flash point	N/D
Auto-ignition temperature	N/D
Decomposition temperature	N/D
pH	N/A
Kinematic viscosity	N/D
Solubility	Moderate in water
Partition coefficient n-octanol/water (log value)	N/D
Vapor pressure	N/D
Evaporation rate	>3 Fast
Density and/or relative density	1.15-1.30
Relative vapor density	>2

Particle characteristics

Viscosity: 6-22 cps
Percent Solids: 40.5%

Supplemental information regarding physical hazard classes

Volatility Including Water: 66%
Volatile Organic Compounds (VOC): 58%

Further safety characteristics (supplemental)

Dielectric Strength (Volts): N/D

SECTION 10: Stability and reactivity

Reactivity

If exposed to strong oxidizers, presents explosion hazard.

Chemical stability

Stable.

Possibility of hazardous reactions

None known.

Conditions to avoid

Temperatures greater than 122°F and sources of ignition.

Incompatible materials

Some plastics, strong oxidizing agents, acids, caustics, alkalis, and chemically active metals.

Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Acetone:

The ATE (gas inhalation) of the mixture is: 90000 ppmV

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ACETONE

LD50 Skin - Guinea pig - 7,429 mg/kg

LC50 Inhalation - Rat - 50,100 mg/m³ - 8 h Remarks: Drowsiness Dizziness Unconsciousness

LD50 Oral - Rat - 5,800 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

ACETONE

LC50 - Oncorhynchus mykiss (rainbow trout) - 5,540 mg/l - 96 h

LC50 - Daphnia magna (Water flea) - 8,800 mg/l - 48 hr

- Rabbit - 24 hr Result: Eye irritation

- Guinea pig Result: Does not cause skin sensitisation

- Skin - Rabbit - 24 hr Result: Mild skin irritation

Skin corrosion/irritation

Brief contact is not irritating. May cause irritation, localized defatting, redness, itching and prolonged or repeated contact. Can be absorbed through the skin with prolonged and widespread contact.

Serious eye damage/irritation

May cause serious eye irritation including redness, tearing, and blurred vision.

Respiratory or skin sensitization

May cause drowsiness or dizziness, headache, nausea, depression of Central Nervous System, prolonged exposure may lead to unconsciousness.

Germ cell mutagenicity

May cause genetic defects.

Carcinogenicity

OSHA: No

ACGIH: No

NTP: No

IARC: 2B - Possible

Reproductive toxicity

None known.

STOT-single exposure

Eyes: Redness, tearing, blurred vision

Skin: Defatting and dermatitis

Inhalation: Anesthetic, irritation, Central Nervous System depression

Oral: Abdominal irritation, nausea, vomiting, diarrhea, and aspiration risk

STOT-repeated exposure

Cardiac abnormalities, liver damage, kidney damage, central nervous system effects, dermatitis, liver abnormalities, lung damage.

Aspiration hazard

Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. May cause central nervous system depression. Causes gastrointestinal irritation, headaches, nausea, diarrhea, vomiting, abdominal cramps.

SECTION 12: Ecological information

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Toxicity

ACETONE

LD50 Skin - Guinea pig - 7,429 mg/kg

LC50 Inhalation - Rat - 50,100 mg/m³ - 8 h Remarks: Drowsiness Dizziness Unconsciousness

LD50 Oral - Rat - 5,800 mg/kg Remarks: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Tremor. Behavioral: Headache. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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- Rabbit - 24 hr Result: Eye irritation

- Guinea pig Result: Does not cause skin sensitisation

- Skin - Rabbit - 24 hr Result: Mild skin irritation

Persistence and degradability

Component or components of this product are not biodegradable.

Bioaccumulative potential

This product is not expected to bioaccumulate.

Mobility in soil

This product is mobile in soil.

Other adverse effects

This material is toxic to aquatic life.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Dispose of contents/container in accordance with local, regional, national, and international regulations. Do not pierce or burn, even after use.

Waste treatment

RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Sewage disposal

Avoid release into the environment. This material is toxic to the aquatic environment. Keep out of sewers and waterways.

Other disposal recommendations

Container may remain hazardous when empty. Continue to observe all precautions. Do not puncture or incinerate container.

SECTION 14: Transport information

DOT (US)

UN Number: UN1950

Class: 2.1

Packing Group: N/A

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Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity)

IMDG

UN Number: UN1950

Class: 2.1

Packing Group: N/A

EMS Number:

Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity)

Marine pollutant: Yes

IATA

UN Number: UN1950

Class: 2.1

Packing Group: N/A

Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Canadian Domestic Substances List (DSL)

Chemical name: Heptane

CAS: 142-82-5

Chemical name: 2-Propanone

CAS: 67-64-1

Chemical name: Benzene, dimethyl-

CAS: 1330-20-7

CERCLA (Comprehensive Response Compensation, and Liability Act)

Acetone (67-64-1): Reportable quantity: 5000 lbs.; Xylenes (1330-20-7) Reportable quantity: 100 lbs.

Massachusetts Right To Know Components

Chemical name: Acetone

CAS number: 67-64-1

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

New Jersey Right To Know Components

Common name: n-HEPTANE

CAS number: 142-82-5

Common name: ACETONE

CAS number: 67-64-1

Common name: XYLENES

CAS number: 1330-20-7

Pennsylvania Right To Know Components

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Chemical name: Heptane
CAS number: 142-82-5

Chemical name: 2-Propanone
CAS number: 67-64-1

Chemical name: Benzene, dimethyl-
CAS number: 1330-20-7

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

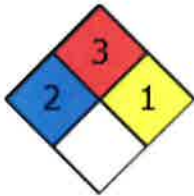
Toxic Substances Control Act (TSCA) Inventory

All chemicals are listed or exempt.

HMIS Rating

Zinc-Spray	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	1
PERSONAL PROTECTION	B

NFPA Rating



SECTION 16: Other information

N/A = Not applicable; N/D = Not determined

Further information/disclaimer

To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability 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 hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions of handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

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Preparation information

Prepared by: Jessica Wilson

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