



VAPCO PRODUCTS, INC.

Safety Data Sheet Zinc Spray Aerosol

SECTION 1: Identification

1.1 GHS Product identifier

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

1.3 Recommended use of the chemical and restrictions on use Zinc cold galvanizing coating aerosol

1.4 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

1.5 Emergency phone number

(800) 255-3924

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200, 2024)

- Acute toxicity, inhalation, Cat. 4
- Flammable aerosols, Cat. 1
- Gases under pressure, liquefied gas
- Toxic to reproduction, Cat. 2
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (repeated exposure), Cat. 2
- Specific target organ toxicity (single exposure), Cat. 3

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2.2 GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H222	Extremely flammable aerosol
H280	Contains gas under pressure; may explode if heated
H315	Causes skin irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

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.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands 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.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a POISON CENTER/doctor if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see First Aid on this label).
P332+P313	If skin irritation occurs: 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

3.2 Mixtures

Hazardous components

1. Benzene, dimethyl-

Concentration	30 - 40 % (weight)
EC no.	215-535-7

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CAS no. 1330-20-7
Index no. 601-022-00-9

2. Petroleum gases, liquified, sweetened, if they contain > 0.1% w/w Butadiene

Concentration 20 - 30 % (weight)
EC no. 270-705-8
CAS no. 68476-86-8
Index no. 649-203-00-1

3. Toluene

Concentration 15 - 20 % (weight)
EC no. 203-625-9
CAS no. 108-88-3
Index no. 601-021-00-3

SECTION 4: First-aid measures

4.1 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.

4.2 Most important symptoms/effects, acute and delayed

Acute Health Hazards

Symptoms/Injuries After Eye Contact: May cause redness, tearing, and blurred vision.

Symptoms/Injuries After Skin Contact: May cause defatting and dermatitis.

Symptoms/Injuries After Inhalation: May cause effects such as drowsiness or dizziness, anesthetic, irritation, and Central Nervous System depression.

Symptoms/Injuries After Ingestion: May cause abdominal irritation, nausea, vomiting, diarrhea, and aspiration risk. May be fatal if swallowed and enters airways.

Chronic Health Hazards: Skin disorders, drying and irritation of the skin. May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

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

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SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

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

5.2 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.

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

5.3 Special protective actions for fire-fighters

Precautionary Fire Measures: 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 oxide(s).

Further information

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

SECTION 6: Accidental release measures

6.1 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 sources 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.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

For Containment: Ventilate the 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. Product should be fully characterized prior to disposal (40 CFR 261).

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Reference to other sections

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

SECTION 7: Handling and storage

7.1 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 areas.

7.2 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Benzene, dimethyl- (CAS: 1330-20-7 EC: 215-535-7)

IOELV-LTEL [Xylene, Pure] (Inhalation): 221 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-LTEL [Xylene, Pure] (Inhalation): 50 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL [Xylene, Pure] (Inhalation): 442 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

IOELV-STEL [Xylene, Pure] (Inhalation): 100 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 1 under Council Directive 98/24/EC as amended. List last updated on 8/29/2023.

PEL [Xylenes (o-, m-, p-isomers)] (Inhalation): 100 ppm; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL [Xylenes (o-, m-, p-isomers)] (Inhalation): 435 mg/m³; US (US/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

PEL [Xylenes (o-, m-, p-isomers)] (Inhalation): 100 ppm, (ST) 150 ppm, (C) 300 ppm; US (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

REL [Xylenes (o-, m-, p-isomers)] (Inhalation): 100 ppm, (ST) 150 ppm; US (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

2. Toluene (CAS: 108-88-3)

TWA (Inhalation): 50 ppm; 191 mg/m³; AU (AU/SWA)

Other advisory: Sk

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STEL (Inhalation): 150 ppm; 574 mg/m³; AU (AU/SWA)

Other advisory: Sk

IOELV-LTEL (Inhalation): 192 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 2 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-LTEL (Inhalation): 50 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 2 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-STEL (Inhalation): 384 mg/m³; EU (EU/OSHA)

Skin designation: Yes. List no. 2 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

IOELV-STEL (Inhalation): 100 ppm; EU (EU/OSHA)

Skin designation: Yes. List no. 2 under Council Directive 98/24/EC as amended. List last updated on 8/25/2023.

8.2 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 being observed. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

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

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

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
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

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Kinematic viscosity	6-22 cPs
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	Percent solids: 40.5%

Supplemental information regarding physical hazard classes

Volatile Organic Compounds (VOC): 58%

SECTION 10: Stability and reactivity

10.1 Reactivity

If exposed to strong oxidizers, presents explosion hazards.

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

Temperatures greater than 122°F and sources of ignition.

10.5 Incompatible materials

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

10.6 Hazardous decomposition products

Carbon oxide(s).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Toluene

LD50 Oral - Rat - >5580 mg/kg

LD50 Skin - Rabbit - 12196 mg/kg

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.

The ATE (dermal) of the mixture is: 2750 mg/kg bw.

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Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

Suspected of damaging the unborn child.

Specific target organ toxicity (STOT) - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

The ATE (gas inhalation) of the mixture is: 11250 ppmV.

The ATE (vapor inhalation) of the mixture is: 27.5 mg/l.

Additional information

Acute Health Hazards

Symptoms/Injuries After Eye Contact: May cause redness, tearing, and blurred vision.

Symptoms/Injuries After Skin Contact: May cause defatting and dermatitis.

Symptoms/Injuries After Inhalation: May cause effects such as drowsiness or dizziness, anesthetic, irritation, and Central Nervous System depression.

Symptoms/Injuries After Ingestion: May cause abdominal irritation, nausea, vomiting, diarrhea, and aspiration risk. May be fatal if swallowed and enters airways.

Chronic Health Hazards: Skin disorders, drying and irritation of the skin. May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

SECTION 12: Ecological information

Toxicity

Toluene

EC50 - *Pseudokirchneriella subcapitata* (green algae) - 10 mg/l - 24 hrs

LC50 - *Oncorhynchus mykiss* (rainbow trout) - 7.63 mg/l - 96 hrs

EC50 - *Daphnia magna* (water flea) - 6 mg/l - 48 hrs

EC50 - *Chlorella vulgaris* (fresh water algae) - 245 mg/l - 24 hrs

NOEC - *Pimephales promelas* (fathead minnow) - 5.44 mg/l - 7 days

Persistence and degradability

Component(s) 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.

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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 hazardous 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. Product should be fully characterized prior to disposal.

SECTION 14: Transport information

DOT (US)

UN Number: UN1950

Class: 2.1

Packing Group: N/A

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

IMDG

UN Number: UN1950

Class: 2.1

Packing Group: N/A

EMS Number: N/A

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

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

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

California Prop. 65 components

Chemical name: Toluene

CAS number: 108-88-3

California Proposition 65 Chemicals List

WARNING: This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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Massachusetts Right To Know Components (105 CMR 670)

Chemical name: DIMETHYLBENZENE

CAS number: 1330-20-7

Chemical name: METHYLBENZENE

CAS number: 108-88-3

Massachusetts Toxic Use Reduction Act (TURA) list

Chemical name: Xylene (mixed isomers)

CAS number: 1330-20-7

Chemical name: Toluene

CAS number: 108-88-3

New Jersey Right To Know Components

Common name: XYLENES

CAS number: 1330-20-7

Common name: TOLUENE

CAS number: 108-88-3

Pennsylvania Right To Know Components

Chemical name: BENZENE, DIMETHYL-

CAS number: 1330-20-7

Chemical name: BENZENE, METHYL-

CAS number: 108-88-3

US EPA TSCA public inventory

Chemical name: Benzene, dimethyl-

CAS number: 1330-20-7

Chemical name: Petroleum gases, liquified, sweetened, if they contain > 0.1% w/w Butadiene

CAS number: 68476-86-8

Chemical name: Toluene

CAS number: 108-88-3

SECTION 16: Other information

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

16.1 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

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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.

16.2 Preparation information

Prepared by: Jessica Wilson

Date prepared: 3/20/2025

