



SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: Cold Zinc Galvanize - SW489

Other means of identification

SDS number: RE1000043585

Recommended restrictions

Recommended use: Coating

Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: Sprayway, Inc.
Address: 1000 INTEGRAM DR.
Pacific, MO 63069
US
Telephone: 1-630-628-3000

Emergency telephone number: 1-866-836-8855

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable aerosol Category 1

Health Hazards

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Germ Cell Mutagenicity Category 1B
Carcinogenicity Category 1B
Toxic to reproduction Category 2
Specific Target Organ Toxicity -
Single Exposure Category 3
(Narcotic effect.)
Specific Target Organ Toxicity -
Repeated Exposure Category 2

Environmental Hazards

Acute hazards to the aquatic
environment Category 2
Chronic hazards to the aquatic
environment Category 2

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement:

Extremely flammable aerosol.
Causes skin irritation.
Causes serious eye irritation.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid release to the environment.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing. Collect spillage.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal:

Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC):

None.



3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Butane	106-97-8	20 - <50%
Benzene, methyl-	108-88-3	10 - <25%
Acetic acid, methyl ester	79-20-9	10 - <20%
Zinc	7440-66-6	10 - <25%
Propane	74-98-6	10 - <20%
Distillates (petroleum), hydrotreated light	64742-47-8	1 - <2.5%
Silica	7631-86-9	0.1 - <1%
Stoddard solvent	8052-41-3	0.1 - <1%
Zinc oxide (ZnO)	1314-13-2	0.1 - <1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: The components are not hazardous or are below required disclosure limits.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

- Inhalation:** Move to fresh air.
- Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention.
- Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Ingestion:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- Personal Protection for First-aid Responders:** Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.



Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Accidental release measures: Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk.

Methods and material for containment and cleaning up: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with skin.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Aerosol Level 3

Safe packaging materials: No data available.



Storage Temperature: No data available.

8. Exposure controls/personal protection

**Control Parameters
Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source	
Butane	REL	800 ppm 1,900 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values, as amended	
	TWA	800 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Benzene, methyl-	STEL	150 ppm 560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	REL	100 ppm 375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	TWA	100 ppm 375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	Ceiling	300 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended	
	TWA	200 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
	MAX. CONC	500 ppm	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended	
Acetic acid, methyl ester	STEL	150 ppm 560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	REL	200 ppm 610 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	STEL	250 ppm 760 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL	200 ppm 610 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
	STEL	250 ppm	US. ACGIH Threshold Limit Values, as amended	
	TWA	200 ppm 610 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	STEL	250 ppm 760 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
Propane	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended	
	REL	1,000 ppm 1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended	
	PEL	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	
Distillates (petroleum), hydrotreated light	TWA	1,000 ppm 1,800 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended	
	REL		100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA		200 mg/m3	US. ACGIH Threshold Limit Values, as amended
Distillates (petroleum), hydrotreated light - Non-aerosol. - as total hydrocarbon vapor	TWA		200 mg/m3	US. ACGIH Threshold Limit Values, as amended
	Silica	TWA	6 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA		20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA		0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	REL		6 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Stoddard solvent	TWA	100 ppm 525 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
TWA		100 ppm	US. ACGIH Threshold Limit Values, as amended	
	REL		350 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	Ceiling		1,800 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	500 ppm 2,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended	



Zinc oxide (ZnO) - Dust.	Ceil_Time		15 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Zinc oxide (ZnO) - Fume.	STEL		10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Zinc oxide (ZnO) - Respirable fraction.	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Zinc oxide (ZnO) - Dust.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Zinc oxide (ZnO) - Fume.	REL		5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	STEL		10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Zinc oxide (ZnO) - Respirable fraction.	TWA		2 mg/m3	US. ACGIH Threshold Limit Values, as amended
Zinc oxide (ZnO) - Fume.	TWA		5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Zinc oxide (ZnO) - Respirable fraction.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Zinc oxide (ZnO) - Total dust.	PEL		15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA		10 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Zinc oxide (ZnO) - Respirable fraction.	STEL		10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Zinc oxide (ZnO) - Fume.	PEL		5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Acetaldehyde	TWA	100 ppm	180 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	200 ppm	360 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	Ceiling	25 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	150 ppm	270 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Methanol	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	200 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as amended
	STEL	250 ppm	325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	200 ppm	260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Lead - as Pb	TWA		0.05 mg/m3	US. ACGIH Threshold Limit Values, as amended
	TWA		0.05 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	REL		0.050 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Lead	OSHA_AC T		0.03 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
	TWA		0.05 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
Cadmium	OSHA_AC T		0.0025 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
Cadmium - Dust.	TWA		0.2 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
	Ceiling		0.6 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
Cadmium	TWA		0.005 mg/m3	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended
Cadmium - Fume.	Ceiling		0.3 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
Cadmium - as Cd	TWA		0.01 mg/m3	US. ACGIH Threshold Limit Values, as amended
Cadmium - Fume.	TWA		0.1 mg/m3	US. OSHA Table Z-2 (29 CFR 1910.1000), as amended
Copper - Fume. - as Cu	TWA		0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Copper - Dust and mist. - as Cu	TWA		1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Copper - Fume. - as Cu	PEL		0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Copper - Dust and mist. - as	PEL		1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants



Cu			(29 CFR 1910.1000), as amended
	TWA	1 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Copper - Fume. - as Cu	TWA	0.2 mg/m ³	US. ACGIH Threshold Limit Values, as amended
	REL	0.1 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Copper - Dust and mist. - as Cu	REL	1 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Benzene, methyl- (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL
Benzene, methyl- (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL
Benzene, methyl- (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL
Lead (Lead: Sampling time: Not critical.)	200 µg/l (Blood)	ACGIH BEL
Cadmium (Cadmium: Sampling time: Not critical.)	5 µg/l (Blood)	ACGIH BEL
	5 µg/g (Creatinine in urine)	ACGIH BEL

Exposure guidelines

Distillates (petroleum), hydrotreated light	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.
Methanol	US. ACGIH Threshold Limit Values, as amended	Can be absorbed through the skin.

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: No data available.

Skin and Body Protection: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene measures: Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Avoid contact with skin.

9. Physical and chemical properties

Appearance

- Physical state:** liquid
- Form:** Spray Aerosol
- Color:** No data available.
- Odor:** No data available.
- Odor Threshold:** No data available.



pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	-104.44 °C
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	2,757 - 4,136 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	300 - 800 mm ² /s
Dynamic viscosity:	300 - 800 mPa.s
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No data available.
Conditions to avoid:	Avoid heat or contamination.
Incompatible Materials:	No data available.
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.



Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Components:

Butane	LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study
Benzene, methyl-	LOAEL (Rat(Female, Male), Oral, 13 Weeks): 1,250 mg/kg (Target Organ(s): Liver, Kidney) Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 625 ppm(m) Inhalation Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation - vapor): 2,355 mg/l Inhalation Experimental result, Key study
Acetic acid, methyl ester	NOAEL (Rat(Female, Male), Inhalation, 28 d): 350 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, 28 d): 2,000 ppm(m) Inhalation Experimental result, Key study
Zinc	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 31.52 mg/kg Oral Read- across based on grouping of substances (category approach), Key study
Propane	NOAEL (Rat(Female, Male), Inhalation, >= 28 d): 4,000 ppm(m) Inhalation Experimental result, Key study LOAEL (Rat(Female, Male), Inhalation, >= 28 d): 12,000 ppm(m) Inhalation Experimental result, Key study
Distillates (petroleum), hydrotreated light	NOAEL (Rat(Female, Male), Inhalation): >= 24 mg/m3 Inhalation Experimental result, Key study NOAEL (Rat(Female), Oral, 70 - 147 d): 750 mg/kg Oral Experimental result, Key study
Silica	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 4,000 mg/kg Oral Experimental result, Key study NOAEL (Rat(Female, Male), Inhalation): 1.3 mg/m3 Inhalation Experimental result, Key study
Zinc oxide (ZnO)	NOAEL (Rat(Female, Male), Oral, 13 Weeks): 31.52 mg/kg Oral Read- across based on grouping of substances (category approach), Key study NOAEL (Rat(Male), Inhalation): 1.5 mg/m3 Inhalation Experimental result, Key study

Skin Corrosion/Irritation

Product: No data available.

Components:

Benzene, methyl-	in vivo (Rabbit): Irritating
Acetic acid, methyl ester	in vivo (Rabbit): Not irritant



Distillates (petroleum), hydrotreated light	in vivo (Rabbit): Not irritant
Silica	in vivo (Rabbit): Not irritant
Zinc oxide (ZnO)	in vivo (Rabbit): Not irritant

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Benzene, methyl-	Rabbit, 24 - 72 hrs: Not irritating
Acetic acid, methyl ester	Rabbit: Irritating
Distillates (petroleum), hydrotreated light	Rabbit, 24 - 72 hrs: Not irritating
Silica	Rabbit, 24 - 72 hrs: Not irritating
Zinc oxide (ZnO)	Rabbit, 24 - 72 hrs: Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Components:

Benzene, methyl-	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Distillates (petroleum), hydrotreated light	Skin sensitization:, in vivo (Guinea pig): Non sensitising
Zinc oxide (ZnO)	Skin sensitization:, in vivo (Guinea pig): Non sensitising

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Components:

Benzene, methyl-	Suspected of damaging fertility or the unborn child.
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Specific Target Organ Toxicity - Single Exposure

Product: Inhalation - vapor: Narcotic effect. - Category 3 with narcotic effects.

Specific Target Organ Toxicity - Repeated Exposure

Product: Category 2



Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Aspiration Hazard

Product: No data available.

Components:

Benzene, methyl-Distillates (petroleum), hydrotreated light
Stoddard solvent
May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.
May be fatal if swallowed and enters airways.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Butane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Benzene, methyl- LC 50 (Oncorhynchus kisutch, 96 h): 5.5 mg/l Experimental result, Key study
Acetic acid, methyl ester LC 50 (Fathead minnow (Pimephales promelas), 96 h): 295 - 348 mg/l Mortality
LC 50 (Danio rerio, 48 h): 250 - 350 mg/l Experimental result, Key study
Zinc LC 50 (Pimephales promelas, 96 h): 780 µg/l Read-across based on grouping of substances (category approach), Key study
Propane LC 50 (Various, 96 h): 147.54 mg/l QSAR QSAR, Key study
Silica LL 0 (Danio rerio, 96 h): 10,000 mg/l Experimental result, Key study
Zinc oxide (ZnO) LC 50 (Pimephales promelas, 96 h): 500 µg/l Read-across based on grouping of substances (category approach), Key study

Aquatic Invertebrates

Product: No data available.

Components:

Butane LC 50 (Daphnia sp., 48 h): 69.43 mg/l QSAR QSAR, Key study
Benzene, methyl- LC 50 (Water flea (Daphnia magna), 48 h): 54.6 - 174.7 mg/l Mortality
LC 50 (Ceriodaphnia dubia, 2 d): 3.78 mg/l Experimental result, Key study
Acetic acid, methyl ester EC 50 (Daphnia magna, 48 h): 1,026.7 mg/l Experimental result, Key study
Zinc EC 50 (Ceriodaphnia dubia, 48 h): 155 µg/l Experimental result, Key study
Silica EC 50 (Daphnia magna, 24 h): > 1,000 mg/l Experimental result, Key study
Zinc oxide (ZnO) EC 50 (Daphnia magna, 48 h): 2.6 mg/l Experimental result, Key study



Chronic hazards to the aquatic environment:

Fish

Product: NOEC : Estimated < 1 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

Benzene, methyl- LOAEL (Ceriodaphnia dubia): 2.76 mg/l Experimental result, Key study
NOAEL (Ceriodaphnia dubia): 0.74 mg/l Experimental result, Key study

Zinc NOAEL (Daphnia magna): 100 µg/l Experimental result, Key study

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Components:

Butane 100 % (385.5 h) Detected in water. Experimental result, Key study

Benzene, methyl- 100 % (14 d) Detected in water. Experimental result, Weight of Evidence study
86 % Detected in water. Experimental result, Weight of Evidence study

Acetic acid, methyl ester 70 % Detected in water. Experimental result, Key study

Propane 100 % (385.5 h) Detected in water. Experimental result, Key study
50 % (3.19 d) Detected in water. QSAR, Weight of Evidence study

Distillates (petroleum), hydrotreated light 61 % Detected in water. Experimental result, Supporting study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Benzene, methyl- Leuciscus idus, Bioconcentration Factor (BCF): 90 Aquatic sediment
Experimental result, Key study

Zinc Various, Bioconcentration Factor (BCF): 3,483 Aquatic sediment
Experimental result, Key study

Zinc oxide (ZnO) Various, Bioconcentration Factor (BCF): 2,600 Aquatic sediment Read-across based on grouping of substances (category approach), Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.



Components:

Butane	No data available.
Benzene, methyl-	No data available.
Acetic acid, methyl ester	No data available.
Zinc	No data available.
Propane	No data available.
Distillates (petroleum), hydrotreated light	No data available.
Silica	No data available.
Stoddard solvent	No data available.
Zinc oxide (ZnO)	No data available.

Other adverse effects: Toxic to aquatic life with long lasting effects.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: No data available.

14. Transport information

DOT

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2.1
Label(s):	-
EmS No.:	
Packing Group:	-
Special precautions for user:	Not regulated.

IATA

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es):	
Class:	2.1
Label(s):	-
Packing Group:	-
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 203
Cargo aircraft only:	Allowed. 203

IMDG

UN Number:	UN 1950
UN Proper Shipping Name:	Aerosols, flammable
Transport Hazard Class(es)	
Class:	2
Label(s):	-
EmS No.:	F-D, S-U
Packing Group:	-
Special precautions for user:	Not regulated.

15. Regulatory information

US Federal Regulations

Restrictions on use: Not known.



**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

<u>Chemical Identity</u>	<u>OSHA hazard(s)</u>
Lead	Kidney Central nervous system Blood Acute toxicity Reproductive toxicity
Cadmium	Acute toxicity Lung Kidney Cancer

CERCLA Hazardous Substance List (40 CFR 302.4):

- Chemical Identity
UNLISTED HAZARDOUS WASTES CHARACTERISTIC OF IGNITABILITY
RCRA HAZARDOUS WASTE NO. D001
BENZENE, METHYL-
Acetic acid, methyl ester
ZINC
Distillates (petroleum), hydrotreated light
ZINC COMPOUNDS
ACETALDEHYDE
METHANOL
METHYL ALCOHOL
LEAD
LEAD AND COMPOUNDS
CADMIUM
CADMIUM AND COMPOUNDS
COPPER

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable aerosol, Skin Corrosion/Irritation, Serious Eye Damage/Eye Irritation, Germ Cell Mutagenicity, Carcinogenicity, Toxic to reproduction, Specific Target Organ Toxicity - Single Exposure, Specific Target Organ Toxicity - Repeated Exposure

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

<u>Chemical Identity</u>	<u>% by weight</u>
Benzene, methyl-	1.0%
Zinc	1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

US State Regulations

US. California Proposition 65

For more information go to www.P65Warnings.ca.gov.



US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Butane
Benzene, methyl-
Acetic acid, methyl ester
Zinc
Propane
Distillates (petroleum), hydrotreated light

US. Massachusetts RTK - Substance List

Chemical Identity

Acetaldehyde
Cadmium

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Butane
Benzene, methyl-
Acetic acid, methyl ester
Zinc
Propane
Distillates (petroleum), hydrotreated light

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

International regulations

Montreal protocol

Acetic acid, methyl ester
Distillates (petroleum), hydrotreated light
Stoddard solvent

Stockholm convention

Acetic acid, methyl ester
Distillates (petroleum), hydrotreated light
Stoddard solvent

Rotterdam convention

Acetic acid, methyl ester
Distillates (petroleum), hydrotreated light
Stoddard solvent

Kyoto protocol



Inventory Status:

Australia AICS	On or in compliance with the inventory
Canada DSL Inventory List	On or in compliance with the inventory
EINECS, ELINCS or NLP	Not in compliance with the inventory.
Japan (ENCS) List	Not in compliance with the inventory.
China Inv. Existing Chemical Substances	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI)	Not in compliance with the inventory.
Canada NDSL Inventory	Not in compliance with the inventory.
Philippines PICCS	On or in compliance with the inventory
US TSCA Inventory	On or in compliance with the inventory
New Zealand Inventory of Chemicals	On or in compliance with the inventory
Japan ISHL Listing	Not in compliance with the inventory.
Japan Pharmacopoeia Listing	Not in compliance with the inventory.
Mexico INSQ	On or in compliance with the inventory
Ontario Inventory	On or in compliance with the inventory
Taiwan Chemical Substance Inventory	On or in compliance with the inventory

16. Other information, including date of preparation or last revision

Issue Date: 08/28/2020

Revision Information: No data available.

Version #: 1.0

Further Information: No data available.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.