






SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1718	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	ZINK PROOF	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Aerosol Cold Zink Galvanizing Spray	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable aerosols: Category 1 Skin corrosion/irritation: Category 2 Serious eye damage/eye irritation: Category 2A Reproductive toxicity (the unborn child): Category 2 Specific target organ toxicity, single exposure: Category 3 narcotic effects Specific target organ toxicity, repeated exposure: Category 2 Aspiration hazard: Category 1 Hazardous to the aquatic environment, acute hazard: Category 2 Hazardous to the aquatic environment, long-term hazard: Category 2 OSHA-defined hazards: Not classified.	SIGNAL WORD: DANGER	SYMBOL:			
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HAZARD STATEMENTS:

Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe gas. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of water. 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 EXPOSED OR CONCERNED: Get medical advice/attention. Call a poison center/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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

Disposal: Dispose of contents/container in accordance with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

None known.

SUPPLEMENTAL INFORMATION:

None.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	Concentration % by Weight
Butane	106-97-8	20-40
Toluene	108-88-3	20-40
Methyl Acetate	79-20-9	10-20
Propane	74-98-6	10-20
Zinc (metallic)	7440-66-6	10-20
Mineral Spirits	8052-41-3	0.1-1
Zinc Oxide	1314-13-2	0.1-1
Cadmium	7440-43-9	0.01-0.1
Other Component s Below Reportable Levels:		2.5-10

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

SKIN: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

INGESTION:

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

5. Fire Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Foam. Powder. Dry sand. Carbon dioxide (CO₂).

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Water.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

SPECIFIC FIRE-FIGHTING METHODS:

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure buildup. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Use standard firefighting procedures and consider the hazards of other involved materials. In the event of fire and/or explosion, do not breathe fumes.

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.

GENERAL FIRE HAZARDS:

Extremely flammable aerosol.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during cleanup. Do not breathe gas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see Section 8 of the SDS.

MATERIALS AND METHODS FOR CLEANUP:

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see Section 13 of the SDS.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and Storage

SAFE HANDLING:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition. All equipment used when handling the product must be grounded. Do not reuse empty containers. Do not breathe gas. Avoid contact with eyes, skin and clothing. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

SAFE STORAGE & INCOMPATIBILITIES:

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure Controls / Personal Protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

COMPONENTS	TYPE	VALUE	FORM
Cadmium (CAS 7440-43-9)	TWA	0.005 mg/m ³	

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

COMPONENTS	TYPE	VALUE	FORM
Methyl Acetate (CAS 79-20-9)	PEL	610 mg/m ³ 200 ppm	
Mineral Spirits (CAS 8052-41-3)	PEL	2900 mg/m ³ 500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m ³ 1000 ppm	
Zinc Oxide (CAS 1314-13-2)	PEL	5 mg/m ³ 5 mg/m ³ 15 mg/m ³	Respirable fraction. Fume. Total dust.

US. OSHA Table Z-2 (29 CFR 1910.1000)

COMPONENTS	TYPE	VALUE	FORM
Cadmium (CAS 7440-43-9)	Ceiling	0.6 mg/m ³	Dust.
	TWA	0.3 mg/m ³ 0.2 mg/m ³ 0.1 mg/m ³	Fume. Dust. Fume.
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	

US. ACGIH Threshold Limit Values

COMPONENTS	TYPE	VALUE	FORM
Butane (CAS 106-97-8)	STEL	1000 ppm	
Cadmium (CAS 7440-43-9)	TWA	0.01 mg/m ³ 0.002 mg/m ³	Respirable fraction.
	STEL	250 ppm	
Mineral Spirits (CAS 8052-41-3)	TWA	200 ppm	
Toluene (CAS 108-88-3)	TWA	100 ppm	
Zinc Oxide (CAS 1314-13-2)	TWA	20 ppm	
	STEL	10 mg/m ³	Respirable fraction.
	TWA	2 mg/m ³	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

COMPONENTS	TYPE	VALUE	FORM
Butane (CAS 106-97-8)	TWA	1900 mg/m ³ 800 ppm	
	STEL	760 mg/m ³ 250 ppm	
Methyl Acetate (CAS 79-20-9)	TWA	610 mg/m ³ 200 ppm	
	STEL	1800 mg/m ³	
Mineral Spirits (CAS 8052-41-3)	Ceiling	1800 mg/m ³	
	TWA	350 mg/m ³	
Propane (CAS 74-98-6)	TWA	1800 mg/m ³ 1000 ppm	
	STEL	560 mg/m ³ 150 ppm	
Toluene (CAS 108-88-3)	TWA	375 mg/m ³ 100 ppm	
	Ceiling	15 mg/m ³	Dust.
Zinc Oxide (CAS 1314-13-2)	STEL	10 mg/m ³	Fume.
	TWA	5 mg/m ³ 5 mg/m ³	Dust. Fume.

BIOLOGICAL LIMIT VALUES:

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Cadmium (CAS 7440-43-9)	5 µg/g	Cadmium	Creatinine in urine	*
	5 µg/l	Cadmium	Blood	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

* - For sampling details, please see the source document

EXPOSURE GUIDELINES:

US - California OELs: Skin designation: Toluene (CAS 108-88-3) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies: Toluene (CAS 108-88-3) Skin designation applies.

APPROPRIATE ENGINEERING CONTROLS:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin Protection: Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory Protection: If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

Thermal Hazards: Wear appropriate thermal protective clothing, when necessary.

General Hygiene Considerations: Observe any medical surveillance requirements. When using, do not smoke. Always observe good personal hygiene measures such as washing after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Physical State:	Gas.	Flammability(solid/gas):	Not available.
Form:	Aerosol.	Flammability Limit–lower (%):	2% estimated.
Color:	Not available.	Flammability Limit–upper (%):	10.9% estimated.
Odor:	Not available.	Explosive Limit – lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit – upper (%):	Not available.
pH:	Not available.	Vapor Pressure:	50 psig @ 70°F estimated.
Melting/Freezing Point:	Not available.	Vapor Density:	Not available.
Initial Boiling Point/Range:	190.35°F (87.97°C) estimated.	Relative Density:	Not available.
Partition Coeff (n-octanol/water):	Not available.	Solubility (water):	Not available.
Viscosity:	Not available.	Auto-Ignition Temperature:	Not available.
Specific Gravity:	0.807 estimated.	Decomposition Temperature:	Not available.
Flash Point:	-156.0°F (-104.4°C) Propellant estimated.	Evaporation Rate:	Not available.
Oxidizing Properties:	Not oxidizing.	Explosive Properties:	Not explosive.

10. Stability & Reactivity Information

REACTIVITY:

The product is stable and non-reactive under normal conditions of use, storage and transport.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Hazardous polymerization does not occur.

INCOMPATIBLE MATERIALS:

Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

CONDITIONS TO AVOID:

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

HAZARDOUS DECOMPOSITION PRODUCTS:

No hazardous decomposition products are known.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Eyes: Causes serious eye irritation.

Skin: Causes skin irritation.

Inhalation: May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness.

Headache. Nausea, vomiting.

Ingestion: Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation. May cause redness and pain.

ACUTE TOXICITY:

May be fatal if swallowed and enters airways. Narcotic effects.

COMPONENTS	SPECIES	TEST RESULTS
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes
	Rat	52%, 120 Minutes
		1355 mg/l
Cadmium (CAS 7440-43-9)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	> 9.02 mg/m ³ , 15 Minutes
<i>Vapor</i>		
LC50	Mouse, Rat	> 1 mg/m ³ , 3 Hours
LC50	Rabbit	> 22.4 mg/m ³ , 15 Minutes

<i>Aerosol</i> LC50	Rabbit Rat	> 4.5 mg/m ³ , 2 Hours > 8.63 mg/m ³ , 30 Minutes > 4.6 mg/m ³ , 3 Hours > 4.5 mg/m ³ , 2 Hours
<i>Oral</i> LD50	Mouse Rat	63 mg/kg 63 – 259 mg/kg
Methyl Acetate (CAS 79-20-9)		
Acute <i>Dermal</i> LD50	Rat	> 2000 mg/kg, 24 Hours
<i>Inhalation</i> LC100	Rabbit	98.4 mg/l, 4 Hours
<i>Oral</i> LD50	Rat	6482 mg/kg
Propane (CAS 74-98-6)		
Acute <i>Inhalation</i> LC100	Mouse Rat	1237 mg/l, 120 Minutes 52%, 120 Minutes 1355 mg/l 658 mg/l/4 h
Toluene (CAS 108-88-3)		
Acute <i>Dermal</i> LD50	Rabbit	>5000 mg/kg, 24 Hours
<i>Inhalation</i> LC50	Mouse Rat	6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours 5879 - 6281 ppm, 6 Hours 25.7 mg/l, 4 Hours
<i>Oral</i> LD50	Rat	> 5000 mg/kg
Zinc (metallic) (CAS 7440-66-6)		
Acute <i>Inhalation</i> LC50	Rat	>5410 mg/m ³
<i>Oral</i> LD50	Rat	>2000 mg/kg
Zinc Oxide (CAS 1314-13-2)		
Acute <i>Dermal</i> LD50	Rat	> 2000 mg/kg, 24 Hours
<i>Inhalation</i> LC50	Rat	> 5700 mg/m ³
<i>Oral</i> LD50	Mouse Rat	2000 – 5000 mg/kg >5000 mg/kg
* Estimates for product may be based on additional component data not shown.		
SKIN CORROSION/IRRITATION: Causes skin irritation.		
SERIOUS EYE DAMAGE/IRRITATION: Causes serious eye irritation.		
RESPIRATORY SENSITIZATION: Not a respiratory sensitizer.		
SKIN SENSITIZATION: This product is not expected to cause skin sensitization.		
GERM CELL MUTAGENICITY: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
CARCINOGENICITY: Risk of cancer cannot be excluded with prolonged exposure. IARC Monographs. Overall Evaluation of Carcinogenicity: Cadmium (CAS 7440-43-9) If <1L: Consumer Commodity Carcinogenic to humans. Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Cadmium (CAS 7440-43-9) Cancer		
US. National Toxicology Program (NTP) Report on Carcinogens: Cadmium (CAS 7440-43-9) Known To Be Human Carcinogen.		
REPRODUCTIVE TOXICITY: Suspected of damaging the unborn child.		
SPECIFIC TARGET ORGAN TOXICITY (single exposure): May cause drowsiness and dizziness.		
SPECIFIC TARGET ORGAN TOXICITY (repeated exposures): May cause damage to organs through prolonged or repeated exposure.		

ASPIRATION HAZARD:

May be fatal if swallowed and enters airways.

CHRONIC EFFECTS:

May cause damage to organs through prolonged or repeated exposure. Prolonged exposure may cause chronic effects.

12. Ecological Information**ECOTOXICITY:**

Toxic to aquatic life with long lasting effects.

COMPONENTS	SPECIES	TEST RESULTS
Cadmium (CAS 7440-43-9)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)
		0.0491 mg/l, 48 hours 0.0024 - 0.0029 mg/l, 96 hours
Methyl Acetate (CAS 79-20-9)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
Fish	LC50	Fathead minnow (Pimephales promelas)
		120.0001 mg/L, 72 hours 1026.7 mg/L, 48 hours 295 - 348 mg/l, 96 hours
Toluene (CAS 108-88-3)		
Aquatic		
Algae	IC50	Algae
Crustacea	EC50	Daphnia
Fish	LC50	Water flea (Daphnia magna) Coho salmon, silver salmon (Oncorhynchus kisutch)
		433.0001 mg/L, 72 hours 7.645 mg/L, 48 hours 5.46 - 9.83 mg/l, 48 hours 8.11 mg/l, 96 hours
Zinc (metallic) (CAS 7440-66-6)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna)
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)
		2.8 mg/l, 48 hours 0.56 mg/l, 96 hours
Zinc Oxide (CAS 1314-13-2)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas)
		2246 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

PERSISTENCE AND DEGRADABILITY:

No data is available on the degradability of this product.

BIOACCUMULATIVE POTENTIAL:**Partition coefficient n-octanol / water (log Kow):**

Butane	2.89
Methyl Acetate	0.18
Mineral Spirits	3.16 - 7.15
Propane	2.36
Toluene	2.73

MOBILITY IN SOIL:

No data available.

OTHER ADVERSE EFFECTS:

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

LOCAL DISPOSAL REGULATIONS:

Dispose in accordance with all applicable regulations.

HAZARDOUS WASTE CODE:

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (See: Disposal Instructions).

CONTAMINATED PACKAGING:

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste-handling site for recycling or disposal. Do not reuse empty containers.

14. Transportation Information

DOT: UN Number: UN1950
UN Proper Shipping Name: Aerosols, flammable, (each not exceeding 1 L capacity).
Transport Hazard Class(es)
 Class: 2.1
Subsidiary Risk: -
Label(s): 2.1



Packing Group: Not applicable.

Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.

Special Provisions: N82

Packaging Exceptions: 306

Packaging Nonbulk: None.

Packaging Bulk: None.

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking.

IATA: **UN Number:** UN1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es)
Class: 2.1
Subsidiary Risk: -
Label(s): 2.1



Packing Group: Not applicable.

Environmental Hazards: Yes.

ERG Code: 10L

Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling.

Other Information:

Passenger and Cargo Aircraft: Allowed with restrictions.

Cargo Aircraft Only: Allowed with restrictions.

Packaging Exceptions: LTD QTY

IMDG: **UN NUMBER:** UN1950
UN Proper Shipping Name: AEROSOLS
Transport Hazard Class(es)
Class: 2.1
Subsidiary Risk: -
Label(s): None.



Packing Group: Not applicable.

Environmental Hazards:

Marine pollutant: Yes.

EmS: F-D, S-U

Special Precautions for User: Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions: LTD QTY

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 and the IBC CODE:

Not applicable.

15. Regulatory Information

US FEDERAL REGULATIONS:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4):

Cadmium (CAS 7440-43-9) Listed.

Toluene (CAS 108-88-3) Listed.

Zinc (metallic) (CAS 7440-66-6) Listed.

SARA 304 Emergency release notification: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

Cadmium (CAS 7440-43-9) Cancer. Lung. Kidney. Acute toxicity.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT of 1986 (SARA):

Hazard categories: Immediate Hazard – Yes.
Delayed Hazard – Yes.
Fire Hazard – Yes.
Pressure Hazard – Yes.
Reactivity Hazard – No.

SARA 302 Extremely Hazardous Substance: Not listed.

SARA 311/312 Hazardous Chemical: No.

SARA 313 (TRI reporting)

Chemical Name	CAS Number	% by Weight
Toluene	108-88-3	20-40
Zinc (metallic)	7440-66-6	10-20
Cadmium	7440-43-9	0.01-0.1

OTHER FEDERAL REGULATIONS:

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:

Cadmium (CAS 7440-43-9)

Toluene (CAS 108-88-3)

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

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

Safe Drinking Water Act (SDWA): Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code

Number: Toluene (CAS 108-88-3) 6594

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c)): Toluene (CAS 108-88-3) 35% WV

DEA Exempt Chemical Mixtures Code Number: Toluene (CAS 108-88-3) 594

US STATE REGULATIONS

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100): Not listed.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a)):

Butane (CAS 106-97-8)
 Cadmium (CAS 7440-43-9)
 Mineral Spirits (CAS 8052-41-3)
 Toluene (CAS 108-88-3)
 Zinc (metallic) (CAS 7440-66-6)

US. Massachusetts RTK - Substance List:

Butane (CAS 106-97-8)
 Cadmium (CAS 7440-43-9)
 Methyl Acetate (CAS 79-20-9)
 Mineral Spirits (CAS 8052-41-3)
 Propane (CAS 74-98-6)
 Toluene (CAS 108-88-3)
 Zinc (metallic) (CAS 7440-66-6)
 Zinc Oxide (CAS 1314-13-2)

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

Butane (CAS 106-97-8)
 Cadmium (CAS 7440-43-9)
 Methyl Acetate (CAS 79-20-9)
 Propane (CAS 74-98-6)
 Toluene (CAS 108-88-3)
 Zinc (metallic) (CAS 7440-66-6)
 Zinc Oxide (CAS 1314-13-2)

US. Pennsylvania Worker and Community Right-to-Know Law:

Butane (CAS 106-97-8)
 Cadmium (CAS 7440-43-9)
 Methyl Acetate (CAS 79-20-9)
 Mineral Spirits (CAS 8052-41-3)
 Propane (CAS 74-98-6)
 Toluene (CAS 108-88-3)
 Zinc (metallic) (CAS 7440-66-6)
 Zinc Oxide (CAS 1314-13-2)

US. Rhode Island RTK:

Butane (CAS 106-97-8)
 Cadmium (CAS 7440-43-9)
 Propane (CAS 74-98-6)
 Toluene (CAS 108-88-3)
 Zinc (metallic) (CAS 7440-66-6)

US. California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance:

Acetaldehyde (CAS 75-07-0) Listed: April 1, 1988
 Cadmium (CAS 7440-43-9) Listed: October 1, 1987
 Lead (CAS 7439-92-1) Listed: October 1, 1992

US - California Proposition 65 - CRT: Listed date/Developmental toxin:

Cadmium (CAS 7440-43-9) Listed: May 1, 1997
 Lead (CAS 7439-92-1) Listed: February 27, 1987
 Methanol (CAS 67-56-1) Listed: March 16, 2012
 Toluene (CAS 108-88-3) Listed: January 1, 1991

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin:

Lead (CAS 7439-92-1) Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin:

Cadmium (CAS 7440-43-9) Listed: May 1, 1997
 Lead (CAS 7439-92-1) Listed: February 27, 1987

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other 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 any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or 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.