

SAFETY DATA SHEET

1. Identification

Product identifier ZRC and Galvilita Cold Galvanizing Compounds - Aerosol

Other means of identification

Product code 10000, 20010

Recommended use Paint / Industrial coating.

Recommended restrictions Uses other than the recommended use.

Manufacturer/Importer/Supplier/Distributor information

Supplier/Manufacturer ZRC Worldwide
Address 145 Enterprise Drive
Marshfield, MA 02050
United States of America

Telephone +1 781-319-0400

Email info@zrcworldwide.com

Emergency telephone CHEMTREC:
+1 703-527-3887 (CCN15781)

2. Hazard(s) identification

Hazards for the product as sold

Physical hazards Aerosols Category 1
Gases under pressure Liquefied gas

Hazards for the product as sold

Health hazards Serious eye damage/eye irritation Category 2A
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated exposure Category 1 (central nervous system)

Hazards for the product as sold

Environmental hazards Hazardous to the aquatic environment, acute hazard Category 1
Hazardous to the aquatic environment, long-term hazard Category 1

Hazards for the product as sold

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes serious eye irritation. May cause drowsiness or dizziness. Causes damage to organs (central nervous system) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement

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. Do not breathe mist/vapors/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear eye protection/face protection.

Response	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. 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. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	Repeated exposure may cause skin dryness or cracking.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Zinc, stabilized	7440-66-6	40 - 50
Acetone	67-64-1	15 - 25
Propane	74-98-6	5 - 15
Methyl ethyl ketone	78-93-3	5 - 10
Solvent naphtha (petroleum), medium aliph.	64742-88-7	5 - 10
Butane (<0.1% butadiene)	106-97-8	3 - 8
Zinc oxide	1314-13-2	< 2

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

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Call a poison center or doctor/physician if you feel unwell.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Rinse mouth.
Most important symptoms/effects, acute and delayed	May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. Repeated exposure may cause skin dryness or cracking. 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.

General information 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.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Alcohol resistant foam. Dry chemical powder. Dry sand. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, hazardous combustion products are released that may include: Carbon oxides. Fumes of metal oxides.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not breathe fumes. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Fight fire from protected location or safe distance. Water runoff can cause environmental damage.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

In the event of a leak evacuate all personnel until ventilation can restore oxygen concentrations to safe levels. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors/spray. Emergency personnel need self-contained breathing equipment. 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.

Methods and materials for containment and cleaning up

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 product from entering drains.

Pick up undamaged aerosol cans mechanically. Dike leaked material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Scoop up used absorbent into drums or other appropriate container. Following product recovery, flush area with water. Retain and dispose of contaminated wash water.

Never return spills to original containers for re-use. 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

Precautions for safe handling

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 breathe mist/vapors/spray. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. 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.

Conditions for safe storage, including any incompatibilities

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Type	Value	Form
Acetone (CAS 67-64-1)	PEL	2400 mg/m3 1000 ppm	
Methyl ethyl ketone (CAS 78-93-3)	PEL	590 mg/m3	

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

Components	Type	Value	Form
Propane (CAS 74-98-6)	PEL	200 ppm	
		1800 mg/m3	
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	PEL	1000 ppm	
		400 mg/m3	
Zinc oxide (CAS 1314-13-2)	PEL	100 ppm	
		5 mg/m3	Respirable fraction.
		5 mg/m3	Fume.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Acetone (CAS 67-64-1)	STEL	500 ppm	
		TWA	250 ppm
Butane (<0.1% butadiene) (CAS 106-97-8)	STEL	1000 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	150 ppm	
		TWA	75 ppm
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
		TWA	2 mg/m3

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
Acetone (CAS 67-64-1)	IDLH	2500 ppm
Butane (<0.1% butadiene) (CAS 106-97-8)	IDLH	2000 ppm
		1600 ppm
Methyl ethyl ketone (CAS 78-93-3)	IDLH	3000 ppm
Propane (CAS 74-98-6)	IDLH	2100 ppm
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)	IDLH	1000 ppm
Zinc oxide (CAS 1314-13-2)	IDLH	500 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Acetone (CAS 67-64-1)	TWA	590 mg/m3	
		250 ppm	
Butane (<0.1% butadiene) (CAS 106-97-8)	TWA	1900 mg/m3	
		800 ppm	
Methyl ethyl ketone (CAS 78-93-3)	STEL	885 mg/m3	
		TWA	300 ppm
Propane (CAS 74-98-6)	TWA	590 mg/m3	
		200 ppm	
		1800 mg/m3	
		1000 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	Ceiling	15 mg/m ³	Dust.
	STEL	10 mg/m ³	Fume.
	TWA	5 mg/m ³	Fume.
		5 mg/m ³	Dust.

Biological limit values

ACGIH Biological Exposure Indices (BEI)

Components	Value	Determinant	Specimen	Sampling Time
Acetone (CAS 67-64-1)	25 mg/l	Acetone	Urine	*
Methyl ethyl ketone (CAS 78-93-3)	2 mg/l	MEK	Urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

Methyl ethyl ketone (CAS 78-93-3)

Danger of cutaneous absorption

Appropriate engineering controls

Good general ventilation 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. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Incidental contact: Glove material: Nitrile. Use gloves with breakthrough time of 480 minutes. Minimum glove thickness 0.2032 mm. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other suitable gloves can be recommended by the glove supplier.

Skin protection

Other

Wear suitable protective clothing. Use of an impervious apron is recommended.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Chemical respirator with organic vapor cartridge and full facepiece. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. Check with respiratory protective equipment suppliers.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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 and chemical properties

Physical state

Liquid.

Form

Aerosol can.

Color

Grey.

Odor

Hydrocarbon.

Odor threshold

Property has not been measured.

Melting point/freezing point

Property has not been measured.

Boiling point or initial boiling point and boiling range

395.6 °F (202 °C)

Flammability

Extremely flammable aerosol.

Upper/lower flammability or explosive limits**Explosive limit - lower (%)** 1.1 %**Explosive limit - upper (%)** 12.8 %**Flash point** 19.4 °F (-7 °C)**Auto-ignition temperature** Property has not been measured.**Decomposition temperature** Property has not been measured.**pH** Property has not been measured.**Kinematic viscosity** Property has not been measured.**Solubility****Solubility (water)** 0.1 - < 1 % Slightly soluble in water.**Partition coefficient (n-octanol/water)** Not applicable, product is a mixture.**Vapor pressure** 50 mmHg (69.8 °F (21 °C))**Density and/or relative density****Density** 1.2 g/cm³**Relative density** 1.2 (Water=1)**Vapor density** 1 (Air=1) (75.2 °F (24 °C))**Particle characteristics** Not applicable, product is a liquid.**Other information****Explosive properties** Not explosive.**Oxidizing properties** Not oxidizing.**Viscosity** Property has not been measured.**10. Stability and reactivity****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** No dangerous reaction known under conditions of normal use.**Conditions to avoid** Keep away from heat, sparks and open flame. Protect against direct sunlight. Avoid temperatures exceeding the flash point. Contact with incompatible materials. Contents under pressure. Do not puncture. In a fire or if heated, a pressure increase will occur and the container may burst or explode.**Incompatible materials** Water. Acids. Strong oxidizing agents. Amines. Ammonia. Caustics. Chlorine. Fluorine. Isocyanates. Nitrates.**Hazardous decomposition products** Decomposition is not expected under normal conditions of use and storage. Fire or high temperatures create: Carbon oxides. Fumes of metal oxides.**11. Toxicological information****Information on likely routes of exposure****Inhalation** May cause drowsiness or dizziness. Prolonged inhalation may be harmful.**Skin contact** Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking. Components of the product may be absorbed into the body through the skin.**Eye contact** Causes serious eye irritation.**Ingestion** May cause discomfort if swallowed.**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation. Repeated exposure may cause skin dryness or cracking. Prolonged exposure may cause chronic effects.**Information on toxicological effects****Acute toxicity** Not expected to be acutely toxic.

Components	Species	Test Results
Acetone (CAS 67-64-1)		
Acute		
Dermal		
LD50	Rabbit	> 15700 mg/kg, 24 Hours
Inhalation		
<i>Vapor</i>		
LC50	Rat	76 mg/l, 4 Hours
Oral		
LD50	Rat	5800 mg/kg
Butane (<0.1% butadiene) (CAS 106-97-8)		
Acute		
Inhalation		
LC50	Rat	658 mg/l, 4 Hours
Methyl ethyl ketone (CAS 78-93-3)		
Acute		
Dermal		
LD50	Rat	6400 mg/kg
Inhalation		
<i>Vapor</i>		
LC50	Rat	34.5 mg/l, 4 Hours
Oral		
LD50	Rat	2600 mg/kg
Propane (CAS 74-98-6)		
Acute		
Inhalation		
<i>Gas</i>		
LC50	Rat	> 80000 ppm, 15 Minutes
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
<i>dust/mist</i>		
LC50	Rat	> 5.28 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
Zinc oxide (CAS 1314-13-2)		
Acute		
Inhalation		
LC50	Mouse	> 5.7 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Zinc, stabilized (CAS 7440-66-6)		
Acute		
Oral		
LD50	Mouse	> 5 g/kg
Skin corrosion/irritation	Causes mild skin irritation. Repeated exposure may cause skin dryness or cracking.	
Serious eye damage/eye irritation	Causes serious eye irritation.	

Respiratory or skin sensitization

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 Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure Causes damage to organs (central nervous system) through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Causes damage to organs through prolonged or repeated exposure.

Further information Symptoms may be delayed.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Acetone (CAS 67-64-1)			
Aquatic			
<i>Acute</i>			
Crustacea	LC50	Daphnia pulex	8800 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	7163 mg/l, 96 Hours
<i>Chronic</i>			
Crustacea	NOEC	Daphnia magna	> 79 mg/l, 21 days
Methyl ethyl ketone (CAS 78-93-3)			
Aquatic			
<i>Acute</i>			
Crustacea	EC50	Daphnia magna	5091 mg/l, 48 Hours
Fish	LC50	Pimephales promelas	3220 mg/l, 96 Hours
Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)			
Aquatic			
<i>Acute</i>			
Algae	EL50	Pseudokirchneriella subcapitata	3.1 mg/l, 72 Hours
	NOELR	Pseudokirchneriella subcapitata	0.5 mg/l, 72 Hours
Crustacea	EL50	Daphnia magna	1.4 mg/l, 48 Hours
Fish	LL50	Oncorhynchus mykiss	2 - 5 mg/l, 96 Hours
<i>Chronic</i>			
Crustacea	NOELR	Daphnia magna	0.48 mg/l, 21 d

Components	Species	Test Results
Zinc, stabilized (CAS 7440-66-6)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Daphnia magna 0.07 mg/l
Fish	LC50	Oncorhynchus mykiss 0.14 mg/l

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)

Acetone (CAS 67-64-1)	-0.24
Butane (<0.1% butadiene) (CAS 106-97-8)	2.89
Methyl ethyl ketone (CAS 78-93-3)	0.29

Mobility in soil This product is slightly water soluble and may disperse in soil.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

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.

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 re-use empty containers.

14. Transport information

DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1
Packing group	-
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary hazard	-
Label(s)	2.1
Packing group	-
Environmental hazards	Yes

ERG Code 10L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN1950

UN proper shipping name AEROSOLS, flammable

Transport hazard class(es)

Class 2

Subsidiary hazard -

Packing group -

Environmental hazards

Marine pollutant Yes

EmS F-D, S-U

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to IMO instruments Not established.

General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

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

Toxic Substances Control Act (TSCA) All components of the mixture on the TSCA 8(b) inventory are designated "active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Zinc, stabilized (CAS 7440-66-6) 1.0 % Subject to Annual Reporting Requirements (Per Country)

CERCLA Hazardous Substance List (40 CFR 302.4)

- Acetone (CAS 67-64-1)
- Butane (<0.1% butadiene) (CAS 106-97-8)
- Methyl ethyl ketone (CAS 78-93-3)
- Propane (CAS 74-98-6)
- Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)
- Zinc oxide (CAS 1314-13-2)
- Zinc, stabilized (CAS 7440-66-6)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories Flammable (gases, aerosols, liquids, or solids)
Gas under pressure
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)
Hazard not otherwise classified (HNOC)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Zinc oxide	1314-13-2	< 2
Zinc, stabilized	7440-66-6	40 - 50

Other federal regulations

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

Not regulated.

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

Butane (<0.1% butadiene) (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

Acetone (CAS 67-64-1) 6532

Methyl ethyl ketone (CAS 78-93-3) 6714

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Acetone (CAS 67-64-1) 35 %WV

Methyl ethyl ketone (CAS 78-93-3) 35 %WV

DEA Exempt Chemical Mixtures Code Number

Acetone (CAS 67-64-1) 6532

Methyl ethyl ketone (CAS 78-93-3) 6714

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Acetone (CAS 67-64-1) Low priority

Methyl ethyl ketone (CAS 78-93-3) Low priority

US state regulations

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

Acetone (CAS 67-64-1)

Butane (<0.1% butadiene) (CAS 106-97-8)

Methyl ethyl ketone (CAS 78-93-3)

Zinc, stabilized (CAS 7440-66-6)

US. Massachusetts RTK - Substance List

Acetone (CAS 67-64-1)

Butane (<0.1% butadiene) (CAS 106-97-8)

Methyl ethyl ketone (CAS 78-93-3)

Propane (CAS 74-98-6)

Zinc oxide (CAS 1314-13-2)

Zinc, stabilized (CAS 7440-66-6)

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

Acetone (CAS 67-64-1)

Butane (<0.1% butadiene) (CAS 106-97-8)

Methyl ethyl ketone (CAS 78-93-3)

Propane (CAS 74-98-6)

Solvent naphtha (petroleum), medium aliph. (CAS 64742-88-7)

Zinc oxide (CAS 1314-13-2)

Zinc, stabilized (CAS 7440-66-6)

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

Acetone (CAS 67-64-1)

Butane (<0.1% butadiene) (CAS 106-97-8)

Methyl ethyl ketone (CAS 78-93-3)

Propane (CAS 74-98-6)

Zinc oxide (CAS 1314-13-2)

Zinc, stabilized (CAS 7440-66-6)

US. Rhode Island RTK

Acetone (CAS 67-64-1)

Butane (<0.1% butadiene) (CAS 106-97-8)

Methyl ethyl ketone (CAS 78-93-3)

Propane (CAS 74-98-6)

Zinc oxide (CAS 1314-13-2)

Zinc, stabilized (CAS 7440-66-6)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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, including date of preparation or last revision

Issue date 14-December-2013

Revision date 04-March-2026

Version # 08

HMIS® ratings Health: 3*
Flammability: 4
Physical hazard: 3

NFPA ratings



Disclaimer

ZRC Worldwide cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.