



Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Cold Galvanizing Compound Zinc Rich	IDH number:	209802
Product type:	Aerosol	Item number:	82039
		Region:	United States
Company address:		Contact information:	
Henkel Corporation		Telephone: 860.571.5100	
One Henkel Way		MEDICAL EMERGENCY Phone: Poison Control Center	
Rocky Hill, Connecticut 06067		1-877-671-4608 (toll free) or 1-303-592-1711	
		TRANSPORT EMERGENCY Phone: CHEMTREC	
		1-800-424-9300 (toll free) or 1-703-527-3887	
		Internet: www.henkelna.com	

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Physical state:	Aerosol, liquid	HEALTH:	*2
Color:	grey	FLAMMABILITY:	4
Odor:	Solvent	PHYSICAL HAZARD:	1
		Personal Protection:	See MSDS Section 8

DANGER: CONTENTS UNDER PRESSURE.
EXTREMELY FLAMMABLE LIQUID AND VAPOR.
MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED OR INHALED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation:	Vapors and mists will irritate nose and throat and possibly eyes. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination. Harmful by inhalation. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.
Skin contact:	Solvent action can dry and defat the skin, causing the skin to crack, leading to dermatitis. May cause skin irritation.
Eye contact:	Vapors may irritate eyes. Contact with eyes will cause irritation.
Ingestion:	Harmful if swallowed.

Existing conditions aggravated by exposure: Not available.

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Zinc	7440-66-6	30 - 60
Propane	74-98-6	10 - 30
Butane (< 0.1 % butadiene)	106-97-8	10 - 30
Methyl ethyl ketone	78-93-3	10 - 30
Toluene	108-88-3	5 - 10
Solvent naphtha, petroleum, light aliph.	64742-89-8	1 - 5
n-Heptane	142-82-5	1 - 5
Cyclohexanol	108-93-0	0.1 - 1
Bentonite	1302-78-9	0.1 - 1
Silicic acid, aluminum sodium salt	1344-00-9	0.1 - 1
Cobalt octoate	136-52-7	0.1 - 1
2-ethylhexanoic acid, zirconium salt	22464-99-9	0.1 - 1
Paraffin waxes and Hydrocarbon waxes	8002-74-2	0.1 - 1

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Wash with soap and water. Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.
Eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.
Ingestion:	DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Flash point:	Not applicable to aerosols.
Autoignition temperature:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Extinguishing media:	Foam, dry chemical or carbon dioxide.
Special firefighting procedures:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA). Water may be unsuitable as an extinguishing media, but may be helpful in keeping adjacent containers cool. Avoid spreading liquid with water used for cooling purposes.
Unusual fire or explosion hazards:	Vapors may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
Hazardous combustion products:	Oxides of carbon. Irritating organic vapours.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.	
Environmental precautions:	Do not allow product to enter sewer or waterways.

Clean-up methods:

Spilled liquid is combustible and can be ignited by heat, flames, sparks, or other sources of ignition. Vapors are heavier than air and may travel along the ground or be moved by ventilation and subsequently ignited by heat, pilot lights or other ignition sources at locations distant from the material handling point. Remove all sources of ignition. Maintain good ventilation for large spills. Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Spilled material will solidify.

7. HANDLING AND STORAGE

Handling:

Keep container closed. Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Do not wear contact lenses. Keep out of the reach of children. Vapors will accumulate readily and may ignite explosively.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Zinc	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Propane	1,000 ppm TWA	1,000 ppm (1,800 mg/m3) TWA	None	None
Butane (< 0.1 % butadiene)	1,000 ppm TWA	None	None	None
Methyl ethyl ketone	200 ppm TWA 300 ppm STEL	200 ppm (590 mg/m3) TWA	None	None
Toluene	20 ppm TWA	200 ppm TWA 300 ppm Ceiling 500 ppm MAX. CONC 10 minutes	None	None
Solvent naphtha, petroleum, light aliph.	None	None	None	None
n-Heptane	400 ppm TWA 500 ppm STEL	500 ppm (2,000 mg/m3) TWA	None	None
Cyclohexanol	50 ppm TWA (SKIN)	50 ppm (200 mg/m3) TWA	None	None
Bentonite	None	None	None	None
Silicic acid, aluminum sodium salt	10 mg/m3 TWA Total dust. 1 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Cobalt octoate	0.02 mg/m3 TWA (as Co)	None	None	None
2-ethylhexanoic acid, zirconium salt	5 mg/m3 TWA (as Zr) 10 mg/m3 STEL (as Zr)	5 mg/m3 TWA (as Zr)	None	None
Paraffin waxes and Hydrocarbon waxes	2 mg/m3 TWA Fume.	None	None	None

Engineering controls:

Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits. Provide local ventilation for prolonged use in a confined area. In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields.

Skin protection: Permeation resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol).

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Aerosol, liquid
Color: grey
Odor: Solvent
Odor threshold: Not available.
pH: Not available.
Vapor pressure: Not available.
Boiling point/range: 0 - 324 °F (-17.8 - 162.2 °C) None
Melting point/ range: Not available.
Specific gravity: 1.16
Vapor density: Not available.
Flash point: Not applicable to aerosols.
Flammable/Explosive limits - lower: Not available.
Flammable/Explosive limits - upper: Not available.
Autoignition temperature: Not available.
Evaporation rate: Not available.
Solubility in water: Not available.
Partition coefficient (n-octanol/water): Not available.
VOC content: 48.00 %; 556.00 g/l (calculated)

10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: Hydrocarbons.

Incompatible materials: Strong oxidizing agents. Acids and bases.

Conditions to avoid: Heat, flames, sparks and other sources of ignition. Fire or intense heat may cause violent rupture of packages.

11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Zinc	No	No	No
Propane	No	No	No
Butane (< 0.1 % butadiene)	No	No	No
Methyl ethyl ketone	No	No	No
Toluene	No	No	No
Solvent naphtha, petroleum, light aliph.	No	No	No
n-Heptane	No	No	No
Cyclohexanol	No	No	No
Bentonite	No	No	No
Silicic acid, aluminum sodium salt	No	No	No
Cobalt octoate	No	Group 2B	No
2-ethylhexanoic acid, zirconium salt	No	No	No
Paraffin waxes and Hydrocarbon waxes	No	No	No

Hazardous components	Health Effects/Target Organs
Zinc	Blood, Central nervous system, Eyes, Immune system, Irritant, Kidney, Metabolic, Pancreas, Respiratory
Propane	Cardiac, Central nervous system, Irritant
Butane (< 0.1 % butadiene)	Cardiac, Central nervous system, Irritant
Methyl ethyl ketone	Irritant, Central nervous system
Toluene	Behavioral, Cardiac, Central nervous system, Developmental, Ear, Irritant
Solvent naphtha, petroleum, light aliph.	Irritant
n-Heptane	Central nervous system, Irritant
Cyclohexanol	Brain, Central nervous system, Developmental, Heart, Irritant, Kidney, Liver, Reproductive
Bentonite	Irritant, Respiratory
Silicic acid, aluminum sodium salt	Irritant
Cobalt octoate	Allergen, Blood, Ear, Irritant, Kidney, Lung, Nervous System, Respiratory, Thyroid, Vascular
2-ethylhexanoic acid, zirconium salt	No Records
Paraffin waxes and Hydrocarbon waxes	Irritant

12. ECOLOGICAL INFORMATION

Ecological information: Toxic to aquatic organisms May cause long-term adverse effects in the aquatic environment. Do not empty into drains / surface water / ground water.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: D001: Ignitable.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Aerosols
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: Aerosols, flammable
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: AEROSOLS
Hazard class or division: 2.1
Identification number: UN 1950
Packing group: None

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12(b) Export Notification: None above reporting de minimus
CERCLA/SARA Section 302 EHS: None above reporting de minimus
CERCLA/SARA Section 311/312: Immediate Health, Delayed Health, Fire, Pressure

CERCLA/SARA 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372). Toluene (CAS# 108-88-3). Cobalt octoate (CAS# 136-52-7). Zinc (CAS# 7440-66-6). Methyl ethyl ketone (CAS# 78-93-3).

California Proposition 65:

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information**CEPA DSL/NDL Status:**

All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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