SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Type CG™
Cold Galvanize Aerosol

Product ID numbers: CG-13, CG-13M

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Protective zinc coating

List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation
11222 - 60th Street North
Stillwater, MN 55082 USA
Tel: 1-651-430-2270
Email: sds@polywater.com

Polywater Europe BV
Zuidhaven 9-11 Unit B2
4761 CR Zevenbergen
Netherlands
Tel: +31 (0)10 2330578
Email: sds@ polywater.com

1.4 Emergency telephone numbers

INFOTRAC 1-352-323-3500 (USA)

2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to OSHA 29 CFR 1910.1200 and Regulation (EC) No 1272/2008.

Flam Aerosol 1	H222, H229
Gas under pressure, liquefied gas	H280
Acute Tox 4 (Dermal)	H312
Skin Irrit. 3	H316
Eye Irrit. 2	H320
Carcinogenicity. 2	H351

2.2 Label elements

This product is intended for consumer use and is labeled according to CPSC guidelines and not to GHS guidelines listed below. It is safe for consumers and other users under normal and reasonably foreseeable use. The SDS contains valuable information for industrial workplace conditions.

Contains: Isohexanes, Ethanol, n-Pentane, n-Hexane, Isopropanol, Propane, Butane

Pictograms:

Signal word: Danger

Hazard Statements:

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H280	Contains gas under pressure; may explode if heated
H312	Harmful if contact with skin
H316	Causes mild skin irritation.

H320	Causes eye irritation
H351	Suspected of causing cancer

Precautionary Statements:

P210	Keep away from sparks, flames and hot surfaces. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash hands thoroughly after using.
P280	Wear protective gloves and eye protection.
P362 + P364	Take off contaminated clothing and wash before reuse.
P302 + P352	IF ON SKIN: Wash with soap and water.
P332 + P313	If skin irritation occurs: Get medical advice.
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice.
P308 + P313	If exposed or concerned: Get medical advice.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
P501	Dispose of contents/container in accordance with local and national regulations.

Notes: Aspiration classification not applied due to the physical form of the product.

2.3 Other hazards: No information available.

3. Composition/Information on Ingredients

Component	CAS #	EC #	Wt. %
Zinc; Zinc Dust	7440-66-6	231-175-3	43.1%
2-Butanone, Methyl Ethyl Ketone	78-93-3	201-159-0	20.1%
Xylene (Mixed Isomers)	1330-20-7	215-535-7	7.5%
Hexone, Methyl Isobutyl Ketone	108-10-1	203-550-1	7.2%
Alkyd Resin	proprietary		5.1%
Petroleum Distallate	8052-41-3	203-550-1	2.3%
Ethylbenzene (Component of Xylene)	100-41-4	202-849-4	1.6%
n-Butyl Acetate	123-86-4	204-658-1	1.1%
Propane (propellant)	74-98-6	200-827-9	12%

4. First Aid Measures

4.1 Description of first aid measures

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Not a likely route of exposure. Do not induce vomiting or give anything by mouth unless directed to do so by medical personnel. Get medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

4.3 Indication of immediate medical attention and special treatment needed.

None known.

5. Firefighting Measures

5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

5.2 Special hazards arising from the substance or mixture

Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will support combustion. Over exposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention.

Hazardous decomposition and by-products:

Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes.

5.3 Advice for firefighters

Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. Wear goggles and use self-contained breathing apparatus. If water is used, fog nozzles are preferred.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures:

For a spill in a confined space, provide mechanical ventilation to disperse or exhaust vapors. For emergency responders: use respiratory protection: half-face or full-face respirator with filter(s) for organic vapor for spills in a confined space. Chemical goggles are recommended if splashes or contact with eyes is possible. For small spills: normal antistatic work clothes are usually adequate.

6.2 Environmental precautions:

Avoid release to the environment. Dyke the spill to prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods materials for containment and cleaning up:

Absorb spill with sand or absorbents. Collect as much of the spilled material as possible using non-sparking tools and transfer to a container. Seal the container. Remember, adding an absorbent material does not change the toxicity or flammability hazard.

6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

7. Handling and Storage

7.1 Precautions for safe handling

Extremely flammable aerosol. Keep containers cool, dry, and away from sources of ignition. Do not expose container to direct sunlight or temperatures above 50°C/122°F. Avoid breathing vapors or spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area. For industrial or professional use only.

7.2 Conditions for safe storage, including incompatibilities

Do not transport or store near heat sources. Keep cans dry and away from sources of ignition. Do not puncture or incinerate container. Store this product with adequate ventilation.

7.3 Specific end uses

See technical data sheet on this product for further information.

8. Exposure Controls / Personal Protection

8.1 Control parameters

Exposure limits and recommendations:

Component Name	Limit	Standard	Source/Note
Zinc; Zinc Dust	PEL 10 mg/m^3	OSHA	USA, as dust
Zinc; Zinc Dust	TLV 10 mg/m^3	ACGIH	USA, as dust
2-Butanone, Methyl Ethyl Ketone	Not established		
Xylene (Mixed Isomers)	TLV 100 ppm	OSHA, NIOSH	USA

Xylene (Mixed Isomers)	TLV 100 ppm	ACGIH	USA
Hexone, Methyl Isobutyl Ketone	PEL 100 ppm	OSHA, NIOSH	USA
Hexone, Methyl Isobutyl Ketone	TLV TWA 20 ppm	ACGIH	USA
Alkyd Resin	Not established		
Petroleum Distallate	TLV TWA 400 ppm	ACGIH	USA
Ethylbenzene (Component of Xylene)	TWA 100 ppm	OSHA	USA
	TWA 100 ppm	ACGIH	USA
n-Butyl Acetate	Not established		
Propane (propellant)	TWA 1000 ppm	ACGIH	USA

8.2 Exposure controls

Respiratory protection:
Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.

Protective gloves:
For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Eye protection:

Safety glasses recommended.

Other protective equipment:
It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

9. Physical and Chemical

9.1 Information of basic physical and chemical properties (bulk liquid)

Appearance:	Aerosol-dispensed gray coating.
Odor threshold:	Not available
pH:	Does not apply
Freezing point:	Not available
Boiling point:	Not available
Flash point:	Not available
Evaporation rate:	<1 (ether = 1)
Flammability (solid, gas):	Level 3 aerosol
Flammability limits:	Not available
Vapor pressure:	Not available
Vapor density (Air = 1):	>1(Air = 1)
Specific gravity (H_2O = 1):	1.24
Solubility in water:	Not available
Coefficient of Water/Oil Distribution:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

9.2 Other Information

Volatiles (Weight %):	52%

10. Stability and Reactivity

10.1 Reactivity:

See remaining headings in Section 10.

10.2 Chemical stability:

Stable

10.3 Possibility of hazardous reactions:

None known.

10.4 Conditions to avoid:

Avoid heat, flame, and sparks.

10.5 Incompatible materials :

Strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon dioxide, carbon monoxide.

11. Toxicological Information

11.1 Information on toxicological effects:

Acute toxicity

Eye contact:

Direct eye contact with vapors or atomized particles may cause eye irritation.

Skin contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

May cause respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination, central nervous system depression or heart arrhythmia. Narcotic in high concentration.

Ingestion:

Not a likely route of exposure. Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

Toxicity to Animals:

Not available

Chronic Exposure:

Reproductive Toxicity:	No data available.
Mutagenicity:	No data available
Teratogenicity:	No data available
Specific Target Organ Toxicity (STOT)	No end point data.
Toxicologically Synergistic Products:	Not available.
Carcinogenic Status:	Ethyl benzene has been shown to cause cancer in laboratory animals. The relevance of these findings to humans is uncertain. The international agency for research on cancer (IARC) has classified ethylbenzene as a possible human carcinogen.

12. Ecological Information

12.1 Toxicity:

Ecotoxicity:	No information available.
Aquatic Toxicity:	No information available.
12.2 Persistence and degradability:	No information available
12.3 Bioaccumulation potential:	No information available

12.4 Mobility in soil:	No information available
12.5 Results of PBT and vPvB Assessment:	This product is not, nor does it contain a substance that is a PBT or vPvB.
12.6 Other adverse effects:	None known.

13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

14. Transport Information

UN Number:	1950
UN Proper shipping name:	AEROSOLS, Flammable, less than 1 liter each, Class 2.1, LTD QTY
Transport hazard class(es):	Class 9
Packing group:	Not Applicable
Environmental hazards:	None known
Special precautions:	None known
TDG:	Not Regulated
ICAO/IATA-DGR:	Consumer Commodity, ID 8000, Class 9, LTD QTY
IMDG:	UN 1950, AEROSOLS, Flammable, less than 1 liter each, Class 2.1, LTD QTY

15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

USA Federal and State
All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	**Acute**	**Chronic**	**Fire**	**Pressure**	**Reactive**
	Yes	No	Yes	No	No

	CERCLA/SARA Sec 302		SARA Sec. 313
Components	**Hazardous Substance RQ**	**EHS TPQ**	**Toxic Release**
Zinc; Zinc Dust	Yes (1,000 lbs)	No	Yes (1%)
2-Butanone, Methyl Ethyl Ketone	Yes (5,000 lbs)	No	No
Xylene (Mixed Isomers)	Yes (100 lbs)	No	Yes (1%)
Hexone, Methyl Isobutyl Ketone	Yes (5,000 lbs)	No	Yes (1%)
Ethylbenzene (Component of Xylene)	Yes (1,000 lbs)	No	Yes (1%)
n-Butyl Acetate	Yes (5,000 lbs)	No	No

NFPA Ratings: Health: 2
Fire: 4
Reactivity: 0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

European Union
All components are listed on the European Inventory of Existing Chemical Substances (EINECS).
Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada
All components are listed on the DSL inventory.

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

WHMIS Classification: B5

Australia
All components are listed on the AICS.
Hazardous according to criteria of NOHSC Australia.

15.2 Chemical Safety Assessment
No chemical safety assessment has been carried out for the mixture by the supplier.

16. Other Information

Abbreviations and acronyms:
OSHA = Occupational Safety and Health Administration
CLP = Classification, Labeling and Packaging Regulation
STOT = Specific Target Organ Toxicity
LD_{50} = Median Lethal Dose
DNEL = Derived No Effect Level
ACGIH = American Conference of Governmental Industrial Hygienists
TSCA = Toxic Substances Control Act (USA)
DSL = Domestic Substances List (Canada)
AICS = Australian Inventory of Chemical Substances

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Other:	Not Applicable
Indication of Changes:	Written in accordance with the provisions of OSHA 1910.1200 App D and REACH Annex II (EU No 453/2010). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.