
SAFETY DATA SHEET

SECTION 1 – PRODUCT IDENTIFICATION

TRADE NAME: McCabe Gas Level Indicator Paste
GENERIC NAME: None
CHEMICAL FORMULA Not applicable to mixtures
MOLECULAR WEIGHT Not applicable to mixtures
SDS NUMBER: 02 Prepared: September 8, 1998
03 Revised: May 22, 2013
MANUFACTURER'S NAME: McCabe and Sons, Inc.
MANUFACTURER'S ADDRESS: 771 Clark Road
Danville, VT 05828
MANUFACTURER'S PHONE: (802) 748-6840
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McCabe & Sons, Inc.

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards

GHS Classification

Skin Irritation (Category 3)

Eye Irritation (Category 2B)

Acute aquatic toxicity (Category 1)

GHS Label Elements, including precautionary statements

Pictogram



Signal Word

Warning

Hazard Statement(s)

H316

May be harmful if swallowed

H320

Causes eye irritation

H400

Very toxic to aquatic life

Precautionary Statement(s)

P273

Avoid release to the environment

P305 + P351 + P338

IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. Continue rinsing.

HMIS (U.S.A.) RATINGS:

Health Hazard: 0

Fire Hazard: 0

Physical Hazards: 1

Personal Protection: E

Potential Health Effects

Inhalation Zinc Oxide may cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath. Inhalation of fumes can cause metal fume fever, a flu-like illness lasting 24 to 48 hours with symptoms including chills, fever, muscle ache, dryness of the throat and headache.

Ingestion Swallowing large amounts of material may cause irritation to the gastrointestinal tract. Slightly toxic. May cause nausea.

Skin Repeated or prolonged contact with skin may cause dermatitis.

Eyes May be mildly irritating to the eyes.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: None

CAS NO.	CHEMICAL NAME	%	HAZARDOUS
1314-13-2	Zinc Oxide	60-70	YES
25322-69-4	Polypropylene Glycol (ARCOL PPG-2025)	30-40	YES
D = Total Dust R = Respirable Dust F = Fume			

SECTION 4 – First Aid Measures

Emergency and First Aid Procedures:

Eyes: Flush with water immediately for 15 minutes and call a physician if irritation persists.

Inhalation: Remove to fresh air. Get medical attention if breathing is difficult.

Ingestion: Call the local poison control center and physician immediately.

Skin: Flush with water immediately for 15 minutes and call a physician if irritation persists.

Hazards (Acute/Chronic): Persons with a pre-existing circulatory or respiratory disease may be susceptible to the effects of this product.

SECTION 5 – FIREFIGHTING MEASURES

Flash Point (Method Used) 390 – 495°Fahrenheit (COC)

Autoignition Temperature: N/A

Flammable Limits (Components): **LEL** **UEL**

Not Flammable

Zinc Oxide

Conditions of Flammability:	Not flammable or combustible
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus for fire-fighting if necessary
Hazardous Combustion Products:	Hazardous decomposition products formed under fire conditions. Zinc/zinc oxides.

Polypropylene Glycol

Conditions of Flammability:	Not flammable or combustible
Suitable Extinguishing Media:	Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus for fire-fighting if necessary
Hazardous Combustion Products:	Hazardous decomposition products formed under fire conditions. Carbon oxides.

NFPA (U.S.A.) RATINGS:

Health: 0
Flammability: 1
Reactivity: 0
Specific Hazard:

SECTION 6 – Accidental Release Measures

Personal precautions:	Consider use of respirators and personal protective equipment in extreme cases involving large amounts of the material. Avoid breathing vapors, mist, or gas. Ventilate area. Evacuate personnel to safe areas.
Environmental precautions	Segregate and clean-up to avoid generating dust and vapors. Do not let product enter drains.
Methods and materials for containment and cleaning up	Keep in suitable, closed containers for disposal. Soak up with inert absorbent material and properly dispose.

SECTION 7 – Handling and Storage

Precautions for Safe Handling:	Avoid contact with eyes and skin. Keep containers closed and away from oxidizers. Wash thoroughly after handling.
Conditions for Safe Storage:	Store in a cool, dry, well-ventilated area.

SECTION 8 – Exposure, Personal Protection

Components with workplace control parameters

Component	CAS NO.	Value	Control Parameters	Basis
Zinc Oxide	1314-13-2	TWA	10 mg/m ³ D	USA, ACGIH Threshold Limit Value (TLV)
			2 mg/m ³ F	USA, ACGIH Threshold Limit Value (TLV)
Remarks	Metal fume fever			
		STEL	10 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
	Metal fume fever			
		TWA	5 mg/m ³	USA Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m ³	USA Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		STEL	10 mg/m ³	USA OSHA – Table Z-1 Limits for Air Contaminants – 1910.1000
		TWA	5 mg/m ³	USA NIOSH Recommended Exposure Limit
		ST	10 mg/m ³	USA NIOSH Recommended Exposure Limit
		C	15 mg/m ³	USA NIOSH Recommended Exposure Limit
Propylene Glycol	25322-69-4	TWA	10 mg/m ³	USA, Workplace Environmental Exposure Levels (WEEL)

D = Total Dust; F = Fume

Personal Protective Equipment

- Respiratory Protection: Consider using a NIOSH-approved respirator when handling large quantities of this material or if vapors are present above the TLV
- Hand Protection: Impervious gloves are usually not required.
- Skin Protection: Impervious body coverings are usually not required.
- Eye Protection: Safety glasses with side shields, chemical goggles.
- Work/Hygienic Practices: Avoid breathing vapor. Wear long-sleeved shirt, trousers and safety shoes.

Appropriate Engineering Controls

- Ventilation: Recommended to keep below TLVs
- Local Exhaust: Recommended to keep below TLVs
- Spec And Other: N/A

SECTION 9 – Physical and Chemical Properties

Appearance and Odor	Light purplish blue paste with no odor	Specific Gravity:	1.7
Boiling Point:	Greater than 450°F	Melting Point:	No information found
Specific Gravity:	2.1	Vapor Pressure: (mm Hg.)	Less than 0.01

Solubility in Water:	Partial	Evaporation Rate: (Butyl Acetate = 1)	No information found
Flash Point (Method Used):	390 – 495 Fahrenheit (COC)	% Volatiles by Volume	No information found
Autoignition Temperature:	N/A	Viscosity	Unknown

SECTION 10 – Stability and Reactivity

Chemical Stability:	Stable under ordinary conditions of use and storage.
Conditions to Avoid:	High temperatures and incompatibles.
Incompatible Materials:	Oxidizers. Zinc oxide dust may react violently with aluminum and magnesium powders and chlorinated rubber on heating.
Hazardous Decomposition Products:	Carbon dioxide and carbon monoxide. When heated to very high temperatures, zinc oxide sublimes to produce zinc oxide fume.
Possibility of Hazardous Reactions:	None known to occur.

SECTION 11 – Toxicological Information

This product has not been tested as a whole. Individual components are listed :

Acute Toxicity:

Oral LD50	Zinc Oxide:	LD 50 (oral – mouse (mg/kg))	7,950
		LD 50 (oral – rat (ul/kg))	5,530
		LD 50 (oral – rabbit (mg/kg))	2,200
		LD 50 (oral – guinea pig (mg/kg))	2,200
		Polypropylene Glycol	LD 50 (oral – rat (mg/kg))
		LD 50 (oral – rat (mg/kg))	3,750
		LD 50 (oral – rat (mg/kg))	>2 gm/kg
		LD 50 (oral – rat (mg/kg))	14,800
		LD 50 (oral – rat (mg/kg))	5,840
		LD 50 (oral – rat (mg/kg))	2,410
		LD 50 (oral – rat (mg/kg))	5,840
		LD 50 (oral – rat (mg/kg))	4,190
		LD 50 (oral – rat (mg/kg))	2,130
		LD 50 (oral – rat (mg/kg))	7,250
		LD 50 (oral – rat (mg/kg))	10,334
		LD 50 (oral – rat (mg/kg))	9,760
		LD 50 (oral – rat (ul/kg))	33,600
		LD 50 (oral – rat (gm/kg))	>15
		LD 50 (oral – rat (ul/kg))	56,600
	Inhalation LC50	Zinc Oxide	LC50 (inhalation – mouse (mg/m3))
Dermal LD50	Zinc Oxide	No data available	
	Polypropylene Glycol	LC50 (skin – rabbit (ml/kg))	20
		LC50 (skin – rabbit (ml/kg))	20

LC50 (skin – rabbit (ml/kg))	20
LC50 (skin – rabbit (ml/kg))	20
LC50 (skin – rabbit (gm/kg))	10
LC50 (skin – rabbit (gm/kg))	30
LC50 (skin – rabbit (ml/kg))	20
LC50 (skin – rabbit (ml/kg))	20
LC50 (skin – rabbit (ml/kg))	20

Skin corrosion/irritation Zinc Oxide Skin – rabbit – Mild skin irritation – 24 h

Respiratory or skin sensitization No data available

Germ cell mutagenicity Zinc Oxide Genotoxicity in vitro – Hamster – Embryo
 Unscheduled DNA synthesis
 Genotoxicity in vitro – Hamster – Embryo
 Morphological transformation
 Genotoxicity in vitro – Hamster – Embryo
 Sister chromatid exchange
 Genotoxicity in vitro – guinea pig – inhalation
 Unscheduled DNA synthesis

Carcinogenicity
 (whole product)

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible, or confirmed human carcinogen by IARC.

ACGIH No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

OSHA No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

Reproductive toxicity (whole product) No data available

Teratogenicity Zinc Oxide Developmental Toxicity – rat – oral
 Specific Developmental Abnormalities: Homeostasis Effects on Newborn: Stillbirth. Effects on Newborn: Growth statistics (e.g. Reduced weight gain)

Specific target organ Toxicity - Single exposure (whole product) No data available

Specific target organ Toxicity - Repeated exposure (whole product) No data available

Aspiration Hazard (whole product) No data available

Signs and Symptoms of Exposure

Zinc oxide dust or fume can irritate the respiratory tract. Prolonged skin contact can produce a severe dermatitis called oxide pox. Exposure to high levels of dust or fume can cause metallic taste, marked thirst, coughing, fatigue, weakness, muscular pain, and nausea followed by fever and chills. Severe overexposure may result in bronchitis or pneumonia with a bluish tint to the skin., prolonged or repeated exposure can cause:, Reversible liver enzyme abnormalities., Diarrhea.

Synergistic effects No data available

Additional Information

RTECS: Zinc Oxide: ZH4810000
Propylene Glycol: TR5250000

SECTION 12 – Ecological Information

Toxicity:

Zinc Oxide

Toxicity to Fish LC50 – Oncorhynchus mykiss (rainbow trout) – 1.1 mg/l – 96 hr

Toxicity to Daphnia and other aquatic invertebrates EC50 – Daphnia magna (water flea) – 0.098 mg/l – 48 hr

Polypropylene Glycol

Toxicity to Fish LC50 – Oncorhynchus mykiss (rainbow trout) – 10,000 mg/l – 96 hr

Toxicity to Daphnia and other aquatic invertebrates No data available

Persistence and Degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

PBT and vPvB assessment No data available

Other adverse effects No data available

SECTION 13 – Disposal Considerations

Product Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging Dispose of as unused product in accordance with federal, state and local requirements. Sanitary landfill, incineration at permitted facility.

EPA Hazardous Waste ID Number None

SECTION 14 – Transport Information

DOT (US)
Not regulated. Not dangerous goods.

IMDG
Not dangerous goods.

IATA

Not dangerous goods.

SECTION 15 – Regulatory Information

US Federal Regulations

FDA – Zinc oxide as a nutrient and dietary supplement (food additive) has been determined to be “Generally Recognized as Safe” (GRAS) by the FDA

A: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A) or (40 CFR 302.4). Zinc oxide is subject to reporting levels established by SARA Section 313 (40 CFR 372.65).

Acute Health: Yes **Chronic Health:** No **Fire:** No **Pressure:** No **Reactivity:** No

State Regulations**B: Component Analysis - State**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	IL	MA	MN	NJ	PA	RI
Zinc oxide	1314-13-2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Polypropylene glycol	25322-69-4	No	No	No	Yes	No	No	No

C: Component Analysis - Inventory

Component	CAS	TSCA 8(b)	TSCA 8(d)	DSL	NDSL	WHMIS	EINECS	RCRA
Zinc oxide	1314-13-2	Yes	No	Yes	Yes	Not Controlled	215-222-5	No
Polypropylene glycol	25322-69-4	Yes	No	Yes	Yes	Not Controlled	500-039-8	No

Chemical Weapons Convention: Yes TSCA 12(b): No CDTA: No

California Prop. 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

WHMIS

This SDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all information required by the CPR.

SECTION 16 – Other Information

Label Hazard Warning:

WARNING! MAY IRRITATE RESPIRATORY TRACT.

Label Precautions:

Avoid breathing dust or vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. Get medical attention for any breathing difficulty.

Product Use:

Used to gauge/measure certain petroleum and chemical products.

Revision Information:

Revised all sections in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals.

Date of Preparation: September 8, 1998

Date of Revision: May 22, 2013

Disclaimer

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