



Effective Date: May 10, 2016

Product #(s) –73201

Safety Data Sheet

For Emergency Call:
CHEM-TEL (800) 255-3924 24 Hour Assistance

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Zecol Heavy Duty Powdered Floor Cleaner

CAS Number: 6834-92-0 / 497-19-8 / 7601-54-9

Recommended Uses: Floor Cleaner

Company Identification

Manufacturer's Name: ZECOL PRODUCTS COMPANY

Address: 4635 Willow Drive, Medina, MN 55340

Telephone – General Information: (763) 478-3438

2. HAZARDS IDENTIFICATION

Hazard Class: Skin Corrosion/Irritation Category 1A
Serious Eye Damage/Eye Irritation Category 1
Specific Target Organ Toxicity (Single Exposure) Category 3

Signal Word: Danger

Hazard Statements:

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

Precautionary Statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children,

P103 Read label before use.

P234 Keep only in original container.

P260 Do not breathe dusts or mists.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P306 + P360 IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.

P310 Immediately call a POISON CENTER/doctor.

P363 Wash contaminated clothing before reuse.

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P370 + P378 In case of fire: Use dry chemical, CO₂, sand, and water spray for extinction.
P390 Absorb spillage to prevent material damage.
P391 Collect spillage.
P403 + P233 + P405 Store in a well-ventilated place. Keep container tightly closed. Store locked up.
P501 Dispose of contents/container to a specialized waste disposal plant in accordance with local/regional regulations.

Hazard Pictograms:



3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	Typical Weight Percentage	CAS Number
Sodium Metasilicate	20 - 50%	6834-92-0
Sodium Carbonate	20 - 50%	497-19-8
Sodium Phosphate, Tribasic	10 – 20%	7601-54-9

4. FIRST AID

Eyes: Immediately move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek immediate medical attention. For direct contact, remove contact lenses if present and easy to do so. Immediately hold eyelids apart and flush the affected eye(s) with clean water for at least 30 minutes. Seek immediate medical attention.

Skin: Immediately flush affected area(s) with large amounts of water while removing contaminated shoes, clothing and constrictive jewelry. If skin surface is damaged, apply a clean dressing and seek immediate medical attention. If skin surface is not damaged, cleanse the affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops, seek immediate medical attention.

Inhalation: Immediately move victim away from source of exposure and into fresh air. Seek immediate medical attention. If respiratory symptoms or other symptoms of exposure develop, seek immediate medical attention. If breathing difficulties develop, oxygen should be administered by qualified personnel.

Ingestion: ***Do NOT induce vomiting. Corrosive Material. Alkaline burns.*** Immediately call a POISON CENTER or doctor/physician. If victim is conscious and alert, immediately rinse mouth with water and dilute the ingested material by giving one glass of milk or water to drink; ½ glass to children under 5. Never give anything by mouth to an unconscious person. If possible, do not leave victim unattended.

Note to Physician: This material is corrosive and may cause alkaline burns including gastroesophageal, gastric or pyloric structures and stenosis. Severe (3rd degree) alkaline burns to the esophagus have been associated with an increased risk of esophageal cancer.



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Medical Conditions: Conditions which may be aggravated by exposure include skin and respiratory disorders.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry powder, carbon dioxide, water spray, sand. Do not use a heavy water stream. Use extinguishing media as needed for type of surrounding fire.

Specific Hazards: Contact with common metals can generate hydrogen, which can form flammable mixtures with air. If container is not properly cooled, it can explode in the heat of a fire.

Hazardous Combustion Products: May decompose upon heating to produce corrosive and/or toxic fumes.

Special Firefighting Procedures: For fires beyond the initial stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Cool equipment exposed to fire with water, if it can be done with minimal risk. Clean-up under expert supervision is advised.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate hazardous area and keep unauthorized personnel out. Clean-up under expert supervision is advised. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). See Sections 2 and 7 for additional information on hazards and precautionary measures.

Environmental Precautions: Stop spill/release if it can be done with minimal risk. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways.

Methods for Containment and Clean-Up: Notify relevant authorities in accordance with all applicable regulations. Immediate cleanup of any spill is recommended. Dike far ahead of spill for later recovery or disposal. Absorb spill with inert material such as sand, earth or other non-combustible material, and place in suitable container for disposal. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Wear protective gloves/clothing and eye/face protection. Wash thoroughly after handling. Use good personal hygiene practices and wear appropriate personal protective equipment (see Section 8). Do not wear contaminated clothing or shoes. Keep contaminated clothing away from sources of ignition such as sparks or open flames. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing.

Conditions for Safe Storage: Keep container(s) tightly closed. Store only in approved containers. Keep away from any incompatible materials (see Section 10).



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	ACGIH CEIL	OSHA PEL	OSHA STEL
Sodium Metasilicate	None	None	None	None
Sodium Carbonate	None	None	None	None
Sodium Phosphate, Tribasic	None	None	None	None

Engineering Controls: If current ventilation practices are not adequate to minimize exposure, additional ventilation or exhaust systems may be required.

Specific Personal Protective Equipment

Eye/Face Protection: Wear a face shield along with goggles when working with corrosive, highly irritating or toxic substances. The use of eye protection that meets or exceeds ANSI Z.87.1 is recommended to protect against potential eye contact, irritation or injury

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. Depending on exposure and use conditions, additional protection may be necessary to prevent skin contact including use of items such as chemical resistant boots, aprons, arm covers, hoods, coveralls or encapsulated suits.

Respiratory Protection: Wear a positive pressure air supplied respirator in situations where there may be potential for excessive exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are unknown, or any other circumstances where air-purifying respirators may not provide adequate protection.

Other Protective Equipment: Eye wash and quick-drench shower facilities should be available in the work area. Thoroughly clean shoes and wash contaminated clothing before reuse. It is recommended that impervious clothing be worn when skin contact is possible.

Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Free-flowing solid yellow powder

Odor: Pleasant, pine

Odor threshold: No data

pH: 12 (2% solution)

Melting/Freezing Point: Not determined

Boiling point (at 1 atm): Not determined

Flash Point: Non-flammable



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Auto-Ignition Temperature: Non-flammable
Evaporation rate (butyl acetate = 1): Not determined
Flammability (solid, gas): Not determined
Explosive Limits: Non-flammable
Vapor Pressure: Not determined
Vapor Density (air = 1): Not determined
Specific gravity (H₂O = 1): Not determined
Solubility in water: Soluble
Partition Coefficient: No data
Decomposition Temperature: No data
Viscosity: Not applicable

10. STABILITY AND REACTIVITY

Stability (thermal, light, etc.): Stable under normal conditions of storage and handling. Thermal decomposition generates corrosive vapors.

Conditions to Avoid: Avoid contact with incompatible materials, direct sunlight, extremely high or low temperatures.

Incompatibility (materials to avoid): Avoid contact with strong oxidizing agents and acids.

Hazardous Decomposition Products: May release sulfur oxides, corrosive vapors.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Product/Ingredient Name	Result	Species	Dose
Sodium Metasilicate	LD50 dermal	Rat	> 5000 mg/kg body weight
Sodium Carbonate	LD50 Oral	Rat	2.8 g/kg
	LC50 Inhalation (dust)	Rat	2300 mg/kg - 2hr
	LD50 Dermal	Rabbit	>2 g/kg
Sodium Phosphate, Tribasic	LD50 oral	Rat	4800 mg/kg
	LD50 dermal	Rat	> 2000 mg/kg
	LD50 dermal	Rabbit	> 2000 mg/kg

Skin Corrosion/Irritation: Corrosive. Contact may cause severe irritation, skin burns and permanent skin damage.

Serious Eye Damage/Irritation: Corrosive. Contact may cause severe irritation, eye burns and permanent eye damage

Signs and Symptoms: Can cause severe irritation of nose, throat and digestive tract, nausea, vomiting, abdominal pain, breathing difficulties, hypotension, pneumonitis and pulmonary edema

Skin Sensitization: None reported

Respiratory Sensitization: No data found.



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Germ Cell Mutagenicity: There is insufficient information available to conclude that this material is mutagenic

Carcinogenicity: There is insufficient information available to conclude that this material is carcinogenic. It is not listed by NTP, IARC or OSHA.

Reproductive Toxicity: No data found.

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Specific Target Organ Toxicity (Repeated Exposure): There is insufficient information available to conclude that this material causes target organ toxicity.

12. ECOLOGICAL INFORMATION

Toxicity: This material is acutely toxic to aquatic animals.

Ingredient Name	Result	Species	Exposure
Sodium Metasilicate	LC50	Fish	210 mg/l – 96 hr
	EC50	Algae	207 mg/l – 72 hr
Sodium Carbonate	LC50	Fish	300 mg/l – 96 hr
	EC50	Algae	242 mg/l – 5 days
Sodium Phosphate, Tribasic	EC50	Daphnia	120 mg/l – 50 hr
	LC50	Fish	220 mg/l – 96 hr

Persistence and Degradability: No data found.

Bioaccumulative Potential: No data found.

Mobility in Soil: No data found

Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

The generator of a waste is always responsible for making proper hazardous waste determinations and needs to consider state and local requirements in addition to federal regulations.

Recycle wherever possible. Large volumes may be suitable for re-distillation or, if contaminated, incinerated. Can be disposed of in a sewage treatment facility. Avoid release to the environment.

14. TRANSPORT INFORMATION

DOT/TDG Proper Shipping Name: Not Regulated

15. REGULATORY INFORMATION

TSCA: Components are listed on the TSCA inventory.

DSL: Components are listed on the DSL inventory.



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OSHA (Occupational Safety and Health Administration): This material is considered to be hazardous as defined by the OSHA Hazard Communication Standard.

This material has not been identified as a carcinogen by NTP, IARC or OSHA

CERCLA/SARA – Section 302 Extremely Hazardous Substances and TPQ (in pounds): This material does NOT contain chemicals subject to the reporting requirements of SARA 302 and 40 CFR 355 Appendix A and B.

EPA (CERCLA) Reportable Quantity (in pounds): This material does NOT contain chemicals subject to the reporting requirements of 40 CFR 302.4

CERCLA/SARA - Sections 311/312 (Title III Hazard Categories):

Acute: Yes Chronic: No Fire: No Reactivity: Yes

CERCLA/SARA – Section 313 and 40 CFR 372: This material does NOT contain chemicals subject to the reporting requirements of SARA 313 and SARA Title III and 40 CFR:

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material does NOT contain detectable chemicals known to the State of California to cause cancer and/or reproductive toxicity.

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the Regulations.

WHMIS Hazard Class: E (corrosive)

16. OTHER INFORMATION

Issue Date: May 10, 2016

Previous Issue Date: September 11, 2012

Change: Minor wording changes and updated Sec. 14

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