

ZEP MANUFACTURING COMPANY P.O. BOX 2015 ATLANTA, GEORGIA 30301

SCHOOLCRAFT COLLEGE 18600 HAGGERTY RD (RECEIVING DOCK) LIVONIA, MI 48152

# MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

12/22/92

**ISSUE DATE:** 05/21/92 **SUPERSEDES: 01/14/92** 

ZEP CERAMIC TILE CLEANER

PRODUCT NO.: 1273

Ceramic Tile Cleaner

SECTION I - EMERGENCY CONTACTS

TELEPHONE: (404) 352-1680

BETWEEN 8:00 AM - 5:00 PM (EST)

MEDICAL EMERGENCY:

(404) 435-2973 (404) 351-2952 (404) 432-2873

NON-OFFICE HOURS, WEEKENDS AND HOLIDAYS, PLEASE CALL YOUR LOCAL POISON CONTROL

TRANSPORTATION EMERGENCY:

(404) 922-0923

CHEMTREC:

**TOLL-FREE - ALL CALLS RECORDED** 

**EFFECTS** 

1-800-424-9300 DISTRICT OF COLUMBIA: (202) 483-7616

**ALL CALLS RECORDED** 

ı	DESIGNATIONS	(PPM)	(SEE REVERSE)	PROD.	ı
ı	@ * ETHYLENE GLYCOL MONOBUTYL ETHER * 2-butoxyethanol; butyl cellosolve; CAS# 111-76-2; RTECS# KJ8575000;	25	TOX IRR CBL	5-10	l
	OSHA PEL (SKIN)- 25 ppm				ĺ
ı	SODIUM METASILICATE * silicic acid (H2-Si-O3) disodium salt; water glass; CAS# 6834-92-0; RTECS# VV9275000;	N/D	COR	< 5	ı
1	OSHA Dust Limit-2mg/m3 (for powders only).				ı
ı	** POLYETHOXYLATED ALCOHOL ** modified polyethoxylated straight chain alcohol; CAS# 68603-25-8; RTECS#	N/D	EIR	< 5	ı
١	NONE; OSHA PEL-N/D				ı
١	** TETRASODIUM: ETHYLENEDIAMINE TETRAACETATE ** ethylenedinitrilo tetraacetic acid, tetrasodium salt; EDTA;	N/D	IRR	5-10	ı
ı	CAS# 64-02-8; RTECS# AH4025000; OSHA PEL N/D				i

@ Identifies chemicals listed under SARA-Section 313 for release reporting

#### SECTION III - HEALTH HAZARD DATA

Special Note: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under recommended conditions of use (diluted) so long as prescribed safety precautions are practiced.

Acute Effects of Overexposure:
Product iff Effects of Overexposure:
Product iff Effects of Overexposure:
Product iff Effects of Overexposure:
Overexposure by Inhalation may cause respiratory irritation.

Chronic Effects of Overexposure:

Repeated or prolonged skin contact may produce chronic inflammation or dermatitis, characterized by redness, scaling, or itching. Repeated eye exposure may produce chronic inflammation of the eye or corneal damage. Animal studies indicate a potential for liver, kidney, or red blood cell damage. Relevance of these studies or exposure levels which might produce these effects in humans has not been established. None of the ingredients are listed as carcinogens by IARC, NTP, or OSHA.

Est'd PEL/TLV: Not established

Primary Routes of Entry: Inh, Skin. HMIS Codes: HEALTH 2; FLAM. 0; REACT. 0; PERS. PROTECT. B; CHRONIC HAZ. YES

Immediately flush contaminated skin with plenty of water for at least 15 minutes. Get medical attention immediately,

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids. Get medical attention at once.

Inhale: Move exposed person to fresh air. If irritation persists, get medical attention promptly.

Ingest: If this product is swallowed, do not induce vomiting. If victim is conscious give plenty of water to drink. Get medical attention at once.

#### SECTION IV - SPECIAL PROTECTION INFORMATION

Protective Clothing: Eye Protection:

Wear neoprene, nitrile, or natural rubber gloves or gloves with proven resistance to the ingredients listed. Wear splash-proof safety goggles especially if contact lenses are worn. Keep face away from spray mist and do not breathe vapors.

Respiratory Protection:

Ventilation should be equivalent to outdoors. Use exhaust fans and open windows in enclosed spaces.

### SECTION V - PHYSICAL DATA

SECTION VI - FIRE AND EXPLOSION DATA

Boiling Point (°F): 220F APPROX. Percent Volatile by Volume (%): 82.1

Specific Gravity: Vapor Density (air = 1): N/A pH (concentrate): 12.8

Vapor Pressure (mmHg): Evaporation Rate (WATER = 1): pH (use dilution of 1% SOLUTION ): N/A 1.0 10.5-11.0

Solubility in Water: COMPLETE Appearance and Odor: CLEAR, RED-VIOLET LIQUID WITH STRONG, PLEASANT FRAGRANCE

NONE (TOC ) Flash Point (°F) (method used):

Flammable Limits: **Extinguishing Media:**  LEL N/A UEL N/A N/A

Special Fire Fighting: Unusual Fire Hazards:

NONE NONE

#### SECTION VII - REACTIVITY DATA

Stability:

Stable

incompatibility (avoid): Polymerization:

Strong acids and oxidizing agents.

Will not occur. Hazardous Decomposition:

Carbon dioxide, carbon monoxide, and other unidentified organic compounds.

#### SECTION VIII - SPILL AND DISPOSAL PROCEDURES

Steps to be Taken in Case Material is Released or Spilled:

Observe safety precautions in sections 4 & 9 during clean-up. Absorb spill on an inert absorbent material (e.g. Zep-O-Zorb); pick up and place in a clean D.O. T. specification container for disposal. Wash area thoroughly with a detergent solution and then rinse well with water.

Waste Disposal Method:

Liquids cannot be sent to landfills unless solidified. Unusable product and some collected, spent use-dilutions may require disposal as a hazardous waste at a permitted treatment/storage/disposal facility. In most states hazardous wastes in total amounts of 220 lbs. Or less per month may be disposed of in a chemical or industrial waste landfill. If company effluent is ultimately treated by a publicly owned treatment works, neutralization of spent tank-solutions with subsequent discharge to the sewer may be possible. Consult local, state and federal agencies for proper disposal method in your area.

RCRA Hazardous Waste Numbers: D002 (SEE ABOVE)

#### SECTION IX - SPECIAL PRECAUTIONS

Precautions to be Taken When Handling and Storing:

Store tightly closed container in a dry area at temps. between 40-120 degrees F. Store away from strong acids and oxidizing compounds. Keep product away from skin and eyes. Do not breathe spray mists or vapors. Keep out of the reach of children.

#### SECTION X - TRANSPORTATION DATA

**DOT Proper Shipping Name: NONE** DOT Hazard Class: N/A

DOT I.D. Number: N/A

EPA TSCA Chemical Inventory: ALL INGREDIENTS ARE LISTED EPA CWA 40CFR Part 117 substance (RQ in a single container): : NONE

DOT Label/Placard: NONE

#### NOTICE

Thank you for your interest in, and use of, Zep products. Zep Manufacturing Co. Is pleased to be of service to you by supplying this Material Safety Data Sheet for your files. Zep Manufacturing is concerned for your health and safety. Zep products can be used safely with proper protective equipment and proper handling practices consistent with label instructions and the MSDS. Before using any Zep product, be sure to read the complete label and the Material Safety

As a further word of caution, Zep wishes to advise that serious accidents have resulted from the misuse of "emptied" containers. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, or other sources of ignition; they may explice or develop harmful vapors and possibly cause may explode or develop harmful vapors and possibly cause injury or death. Clean empty containers by triple rinsing with water or an appropriate solvent. Empty containers must be sent to a drum reconditioner before reuse.

## TERMS AND ABBREVIATIONS USED IN THE MSDS: BY SECTION ALPHABETICALLY:

SECTION II: HAZARDOUS INGREDIENTS

CAR: Carcinogen - A chemical listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA as a definite or possible human cancer causing agent.

CAS #; Chemical Abstract Services Registry Number

universally accepted numbering system for chemical sub-

CBL: Combustible - At temperatures between 100°F and 200°F chemical gives off enough vapor to ignite if a source of ignition is present as tested with a closed cup tester.

CNS; Central Nervous System depressant reduces the activ-

ity of the brain and spinal cord. COR: Corrosive - Causes irreversible alterations in living tissue (e.g. burns).

DESIGNATIONS; Chemical and common names of hazardous

ingredients.

EIR; Eye Irritant Only - Causes reversible reddening and/or

inflammation of eye tissues.

EXPOSURE LIMITS; The time weighted average (TWA) airborne concentration at which most workers can be exposed without any expected advarse effects. Primary sources in-clude ACGIH TLV's, and OSHA PEL's (TWA, STEL and ceiling

ACGIH; American Conference of Governmental Industrial

Hygienists.
CEIUNG; The concentration that should not be exceeded in the workplace during any part of the working exposure. OSHA; Occupational Safety and Health Administration PEL: Permissible Exposure Limit- A set of time weighted average exposure values, established by OSHA, for a normal 8-hour day and a 40-hour work week.

PPM; Parts per million - unit of measure for exposure

(S) SKIN; Skin contact with substance can contribute to overall exposure.

STEL; Short Term Exposure Limit- Maximum concentration

for a continuous 15-minute exposure period.

7LV; Threshold Limit Value - A set of time weighted average exposure limits, established by the ACGIH, for a normal 8-hour day and a 40-hour work week.

FBL; Flammable - At temperatures under 100°F, chemical gives off enough vapor to ignite if a source of ignition is

present as tested with a closed cup tester.

HAZARDOUS INGREDIENTS; Chemical substances deter-

mined to be potential health or physical hazards by the criteria established in the QSHA Hazard Communication Standard - 29 CFR 1910,1200

HTX; Highly toxic - the probable lethal dose for 70 kg (150 lb.) man and may be approximated as less than 6 teaspoons (2 tablespoons).

IRR; Irritant - Causes reversible effects in living tissues (e.g. Inflammation) - primarily skin and eyes.

N/A: Not Applicable - Category is not appropriate for this product.
N/D: Not Determined - Insufficient Information for a deter-

mination for this item.

RTECS#; Registry of Toxic Effects of Chemical Substances
- an unreviewed listing of published toxicology data on

chemical substances.

Chemical substances.

SARA: Superfund Amendments and Reauthorization Act Section 313 designates chemicals for possible reporting for
the Toxics Release Inventory.

SEN: Sensitizer - Causes allergic reaction after repeated

exposure.
TOX; Toxic - The probable lethal dose for a 70 kg (150 lb.) man is one ounce (2 tablespoons) or more.

#### SECTION III: HEALTH HAZARD DATA

ACUTE EFFECT; An adverse effect on the human body from a single exposure with symptoms developing almost imme-diately after exposure or within a relatively short time. CHRONIC EFFECT; Adverse effects that are most likely to

occur from repeated exposure over a long period of time. EST'D PEUTLY; This estimated, time-weighted average, ex-ESTO PEUTLY: This estimated, time-weighted average, exposure limit, developed by using a formula provided by the ACGIH, pertains to airborne concentrations from the product as a whole. This value should serve as guide for providing safe workplace conditions to nearly all workers.

HMIS CODES: Hazardous Material Identification System - a rating system developed by the National Paint and Coating

Association for estimating the hazard potential of a chemi-cal under normal workplace conditions. These risk estimates are indicated by a numerical rating given in each of three hazard areas (Health/Flammability/Reactivity) ranging from a low of zero to a high of 4. A chronic hazard is indicated with a yes. Consult HMIS training guides for Personal Protection letter codes which indicate necessary protective

requipment.

PRIMARY ROUTE OF ENTRY; The way one or more hazardous ingredients may enter the body and cause a general-ized-systemic or specific-organ toxic effect.

ING; Ingestion - A primary route of exposure through swallowing of material.

INH; Inhalation - A primary route of exposure through breathing of vapors.

SKIN; A primary route of exposure through contact with

#### SECTION IV: SPECIAL PROTECTION INFORMATION

Where respiratory protection is recommended, use only MSHA and NIOSH approved respirators and dust masks. MSHA; Mine Safety and Health Administration

NIOSH; National Institute for Occupational Safety and

SECTION V: PHYSICAL DATA
EVAPORATION RATE; it refers to the rate of change from the liquid state to the vapor state at ambient temperature and pressure in comparison to a given substance (e.g. water).

pH; A value representing the acidity or alkalinity of an aqueous solution (Acidic pH = 1; Neutral pH = 7; Alkaline

pH = 14)

PERCENT VOLATILE; The percentage of the product (liquid or solid) that will evaporate at 212°F and ambient pressure.

SOLUBILITY IN WATER: A description of the ability of the product to dissolve in water.

SECTION VII: REACTIVITY DATA

HAZARDOUS DECOMPOSITION; Breakdown products expected to be produced upon product decomposition or fire.

INCOMPATIBILITY; Material contact and conditions to avoid

to prevent hazardous reactions.

POLYMERIZATION; Indicates the tendency of the product's molecules to combine in a chemical reaction releasing excess pressure and heat.

STABILITY; Indicates the susceptibility of the product to spontaneously and dangerously decompose.

SECTION VIII: SPILL AND DISPOSAL PROCEDURES

RCRA WASTE NOS; RCRA (Resource Conservation and Re-covery Act) waste codes (40 CFR 261) applicable to the disposal of spilled or unusable product from the original

## SECTION X: TRANSPORTATION DATA

CWA; Clean Water Act

CWA; Clean Water Act RQ; Reportable Quantity - The amount of the specific ingredient that, when spilled to the ground and can enter a storm sewer or natural watershed, must be reported to the National Response Center, and other regulatory agencies. TSCA; Toxic Substances Control Act - a federal law requiring all commercial chemical substances to appear on an inventory maintained by the EPA.

### DISCLAIMER

All statements, technical information and recommendations contained herein are based on available scientific tests or data which we believe to be reliable. The accuracy and completeness of such data are not warranted or guaranteed. We cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used. Zep assumes no liability or responsibility for loss or damage resulting from the improper use or handling of our products, from incompatible product combinations, or from the fallure to follow instructions, warnings, and advisories in the product's label and Material Safety Data Sheet.

(Notice Revised 8/91)