

ZACLON LLC MATERIAL SAFETY DATA SHEET

IDENTIFICATION

NAME

Zacsil® MS--Potassium Metasilicate Solution

GRADE

Technical

CHEMICAL FAMILY

Silicate

CAS NAME

Silicic Acid, Potassium Salt

CAS REGISTRY NO.

1312-76-1

MANUFACTURER

Zaclon LLC

TRANSPORTATION EMERGENCY PHONE

CHEMTREC (800) 424-9300

ADDRESS

2981 Independence Road
Cleveland, Ohio 44115

PRODUCT INFORMATION PHONE

(800) 356-7327

PHYSICAL DATA

BOILING POINT, 760 MM Hg

100 C (212 F)

MELTING POINT

8 C (16 F)

SPECIFIC GRAVITY

1.70 - 1.80

VAPOR PRESSURE

Vapor is Water

VAPOR DENSITY

Not volatile

SOLUBILITY IN WATER

Complete

pH INFORMATION

13.5

EVAPORATION RATE (BuAc=1)

< 1

FORM

Liquid

APPEARANCE

Hazy to Clear

COLOR

Colorless

ODOR

Odorless

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

COMPONENTS

| <u>MATERIAL</u> | <u>APPROXIMATE wt%</u> |
|-------------------------------------|-------------------------------|
| Potassium oxide as K ₂ O | 28-35 |
| Silica as SiO ₂ | 28-35 |
| Water | 30-44 |

HAZARDOUS REACTIVITY**INSTABILITY** Stable**INCOMPATIBILITY** Strong Acids**DECOMPOSITION** Will not occur.**POLYMERIZATION** Will not occur.**FIRE AND EXPLOSION DATA**

FLASH POINT Will not burn. **FLAMMABLE LIMITS IN AIR % BY VOL.**
LOWER Not applicable.

AUTOIGNITION TEMPERATURE **UPPER** Not applicable
 Not applicable.

FIRE AND EXPLOSION HAZARDS AUTODECOMPOSITION TEMPERATURE
 None. Not applicable.

EXTINGUISHING MEDIA As appropriate for combustibles in area.**SPECIAL FIRE FIGHTING INSTRUCTIONS** None.**HEALTH HAZARD INFORMATION****PRINCIPAL HEALTH HAZARDS (Including Routes, Effects, Over-Exposure)**

The product is corrosive to all body tissue it contacts. The inhalation of mists or spray may cause damage to the upper respiratory tract and could cause chemical pneumonia. The produce causes severe burns to exposed skin and to the eye. Permanent damage to the eye may result or even blindness.

CARCINOGENICITY

Not listed as a carcinogen by IARC, NTP, OSHA, or ACGIH.

EXPOSURE LIMITS [PEL (OSHA), TLV (ACGIH), ETC.]

Exposure limits for this product have not been established by OSHA or ACGIH.

SAFETY PRECAUTIONS

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling.

FIRST AID

In case of contact: Immediately flush eyes with large amounts of water, holding lids apart to ensure entire surface is flushed. Flush skin with water. Seek medical attention immediately. Remove contaminated clothing and wash before reuse.

If swallowed: Do not induce vomiting. Immediately give two glasses of water, or if available, milk. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES Good ventilation should be provided. Avoid floor spills.

PERSONAL PROTECTIVE EQUIPMENT Coverall, splash goggles and rubber gloves

DISPOSAL INFORMATION

SPILL, LEAK OR RELEASE Leak should be stopped. Flush spill area with plenty of water. Spill should be reported, if required.

WASTE DISPOSAL Comply with Federal, State, and local regulations. If approved, may be flushed to sewer or waste treatment area.

SHIPPING INFORMATION**DOT/IMO****PROPER SHIPPING NAME**

Alkaline Caustic Liquid, N.O.S. (Contains Potassium Hydroxide)

HAZARD CLASS 8, Corrosive Material

I.D. NUMBER UN1719

PACKING GROUP PG III

REPORTABLE QUANTITY 1000 Lbs. (Potassium Hydroxide)

OTHER INFORMATION

SHIPPING CONTAINERS Tank cars, tank trucks, 55 gallon PE drums

STORAGE CONDITIONS Prevent from freezing. Keep drums closed to prevent evaporation.

NPCA-HMIS RATINGS

| | | |
|----------|---|---|
| Health | | 3 |
| Fire | 0 | |
| Reaction | | 1 |

TITLE III HAZARD CLASSIFICATION:

| | | |
|------------|----|-----|
| Acute | | Yes |
| Chronic | No | |
| Fire | | No |
| Reactivity | No | |
| Pressure | No | |

ADDITIONAL INFORMATION AND REFERENCES N/A

DATE OF LATEST REVISION/REVIEW: March 2005

PERSON RESPONSIBLE FOR MSDS: J.L. Curry

Zaclon LLC, 2981 Independence Road, Cleveland, Ohio 44115

800-356-7327 OR 216-271-1601