



SAFETY DATA SHEET

A FAMILY OF SOLUTIONS

ACCORDING TO DIRECTIVE 2001/58/EC

ZEOPOL® 33

REVISION NUMBER: 0.7

REVISION DATE: 03/10/2005

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: ZEOPOL® 33

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PRODUCT USE: Adhesives, Water Treatment Products, Foundry Moulds, Bleaching Stabilisers

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EINECS Number	CAS Number	%W/W	EC Classification
Sodium Silicate, Waterglass solution, mole ratio 3.2-3.4	215-687-4	1344-09-8	30-39	Not classified as a dangerous substance

3. HAZARDS IDENTIFICATION

EC CLASSIFICATION: This product is not classified as dangerous according to Directive 1999/45/EC.

MOST IMPORTANT HAZARDS: Alkaline product. May dry skin and mucous membranes.

4. FIRST-AID MEASURES

EYE CONTACT: Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes.

SKIN CONTACT: Wash skin with soap and water.

INGESTION: Rinse mouth with water. Do not induce vomiting.

INHALATION: Remove person to fresh air.

GENERAL ADVICE: In case of doubt or when symptoms persist, seek medical attention.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Non-combustible.

**INAPPROPRIATE
EXTINGUISHING MEDIA:** None.

**UNUSUAL FIRE & EXPLOSION
HAZARDS:** None.

PROTECTIVE MEASURES: Use protective equipment appropriate for surrounding materials.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid inhalation of mist. Avoid contact with eyes and skin. Wear suitable personal protection equipment. Spillage can cause slippery conditions. Do not inhale vapours.

**ENVIRONMENTAL
PRECAUTIONS:** Keep product from entering drains and waterways. Untreated solutions of this product are alkaline. This product must be neutralised before discharging to water / effluent systems. Once neutralised, no adverse effects on aquatic biosystems are known.

CLEAN UP METHODS: Neutralise with acid or absorb with sand. Scoop all contaminated material into drums for proper disposal. Flush area with water.

7. HANDLING AND STORAGE

HANDLING: Avoid contact with eyes and skin. Wear suitable personal protection equipment

STORAGE: Store at moderate temperatures in steel or alkali stable plastic containers. Prevent from freezing. Do not store in aluminium, galvanized or other light alloy containers. Store away from acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMIT VALUES: Not established. The creation of aerosols should be avoided.

ENGINEERING CONTROLS: Use mechanical ventilation (dilution and local exhaust) to control exposure.

EYE PROTECTION: Safety glasses with side shields Face shield

SKIN AND BODY PROTECTION: Use suitable protective clothing, gloves and footwear, selected with regard for use conditions and exposure potential.

HAND PROTECTION: Impervious gloves chemical resistant. Impervious gloves alkali resistant.

RESPIRATORY PROTECTION: In case of exposure to environments exceeding the occupational exposure limit, wear a respirator in compliance with national legislation.

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice.

ENVIRONMENTAL EXPOSURE: Keep product from entering drains and waterways. Untreated solutions of this product are alkaline. This product must be neutralised before discharging to water / effluent systems. Once neutralised, no adverse effects on aquatic biosystems are known.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Colourless Liquid	ODOUR:	Odourless
pH	11 5% water suspension	BOILING POINT:	ca. 100°C
FLASH POINT:	Non-combustible	DENSITY:	1.3 g/cm ³ , 20°C
WATER SOLUBILITY:	Soluble	VISCOSITY:	250 mPas

10. STABILITY AND REACTIVITY

STABILITY:	Stable under ambient temperature (21°C) and pressure (760 mm Hg).
CONDITIONS TO AVOID:	May produce hydrogen gas when in contact with aluminium, zinc, tin copper and their alloys.
MATERIALS TO AVOID:	Strong acids, Aluminium, Zinc, Tin, Copper.
HAZARDOUS DECOMPOSITION PRODUCTS:	None

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	LD50 Oral (rat) > 2000 mg/kg
EYE IRRITATION:	Slightly irritating, not classified.
SKIN IRRITATION:	Slightly irritating, not classified.
INHALATION:	Causes respiratory tract irritation if inhaled.
INGESTION:	May cause discomfort if swallowed.
SENSITISATION:	Does not cause sensitisation.
CHRONIC TOXICITY:	No evidence of mutagenic, reproductive or carcinogenic effects

12. ECOLOGICAL INFORMATION

ECOTOXICITY:	LC50 (Fish) > 3185 mg/l EC50 (Daphnia) > 4857 mg/l EC50 (Bacteria) > 1000 mg/l
MOBILITY:	Inert material
PERSISTENCE / DEGRADABILITY:	Non-degradable
BIOACCUMULATIVE POTENTIAL:	None

OTHER ADVERSE EFFECTS: Untreated solutions of this product are alkaline. This product must be neutralised before discharging to water / effluent systems. Once neutralised, no adverse effects on aquatic biosystems are known.

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS: Dispose in accordance with local, state and national regulations.
European Waste Catalogue (EWC) NO. 060299.

14. TRANSPORT INFORMATION

UN NUMBER: None
RID / ADR: Not a dangerous substance
IMO / IMDG: Not a dangerous substance.
ICAO / IATA: Not a dangerous substance

15. REGULATORY INFORMATION

EC LABELLING: This product is not classified as dangerous according to Directive 1999/45/EC and no warning label is required.

E-NUMBER: -

HARMONISED TARIFF CODE: 2839.1910

NATIONAL CHEMICAL INVENTORY LISTING:

AUSTRALIA AICS: Silicic acid, sodium salt 1344-09-8.
CANADA DSL/NDSL: Silicic acid, sodium salt 1344-09-8.
EUROPE EINECS: Silicic acid, sodium salt 215-687-4.
KOREA KECI: Silicic acid, sodium salt KE-31002.
PHILLIPINES PICCS: Silicic acid, sodium salt 1344-09-8.
UNITED STATES TSCA: Sodium silicate 1344-09-8.

16. OTHER INFORMATION

R-PHRASES: None

The information contained in this Safety Data Sheet to the best of J.M. Huber's knowledge and belief as of the date indicated is believed to be accurate and reliable. However, no representation, warranty or guarantee is implied or expressed regarding the accuracy, reliability or completeness of this information or the use of the product. Nothing contained herein should be construed as a recommendation to use this product in conflict with National or local regulations or existing patents covering any material or its use.

End of Safety Data Sheet