

REG NO :2002/028469/23 VAT NO : 4120207339

P.O Box 406 • Milnerton • 7435

MATERIAL SAFETY DATA SHEET

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name Tool- Co Sodium Densifier

1.2 Relevant identified uses of the substance or mixture and used advised against

Identified use(s) General purpose industrial chemical for use in a wide range of

applications.

Binding agent; Corrosion inhibitor; Dust binding agent; Flame retardant or fire preventing agent; Flotation agent; Stabiliser; Waterproof seal; Surface crack repairs; Viscosity control agent

Date issued: 03/2018

Uses advised against None known.

Company Details Name: MACTOOL Diamond & Construction Products

Address: Unit 6 Pennisi Park, No.3 Jig Ave, Montague Gardens,

Cape Town, Western Cape, South Africa

In case of an emergency contact either Geoff McLea (+27 76 222 7005) or Henk Viljoen (+27 64 860 2921)

2. Composition / Information on ingredients

Regulation (EC) No. 1272/2008 (CLP)

			EINECS No. /	Hazard symbol(s)
			REACH	and hazard
Ingredient(s)	%W/W	CAS No.	Registration	statement(s)
Silicic acid, sodium salt	35-55	1344-09-8	215-687-4	H315 : Skin Irrit. 2;
(1.6 <mr<=2.6)< td=""><td></td><td></td><td></td><td>H318 : Eye Dam. 1 ;</td></mr<=2.6)<>				H318 : Eye Dam. 1 ;
				H335 : STOT SE 3 ;
Water	46-65	7732-18-5	231-791-2	

The classification of the ingredient silicic acid, sodium salt is based on the powder form. For full text of R/H phrases see section 16.

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3. Hazardous Identification

3.1 Classification of the substance or mixture

GHS Classification H318: Serious eye damage/irritation Category 1

H315: Skin corrosion/irritation Category 2

Hazards summary Alkaline.

Risk of serious damage to the eyes.

Irritating to skin.

2.2. Label elements

Hazard Pictogram(s)



Signal word(s) Danger

Hazard statement(s) H318 Causes serious eye damage.

H315: Causes skin irritation

Precautionary statement(s) P262: Do not get in eyes, on skin, or on clothing

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

protection.

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately

all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

3.3 Other hazards Not classified as PBT or vPvB.

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4. First Aid Measures

4.1 Description of first aid measures

<u>Inhalation</u> Remove patient from exposure, keep warm and at rest. Obtain

medical attention.

Skin Contact Wash affected skin with plenty of water. If symptoms develop, obtain

medical attention.

<u>Eye Contact</u> Irrigate with eyewash solution or clean water, holding the eyelids

apart, for at least 15 minutes. Obtain immediate medical attention. Do not induce vomiting. Wash out mouth with water and give 200-

300ml (half a pint) of water to drink. Obtain medical attention

4.2 Most important Alkaline.

symptoms and effects, Risk of serious damage to eyes.

both acute and delayed Irritating to skin.

The toxicity of EcOseal is dependent on the silica to alkali ratio and on

the pH

4.3 Indication of any Immediate medical attention and special treatment needed

Ingestion

Obtain immediate medical attention

5. Fire Fighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Compatible with all standard firefighting techniques. Unsuitable Extinguishing Media None known.

5.2 Special hazards arising from the substance or mixture

Not applicable. Aqueous solution. Non-combustible.

5.3 Advice for fire-fighters None.

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6. Accidental Release Measures

6.1 Personal precautions, Protective equipment and emergency procedures

Wear suitable protective clothing. Wear eye/face protection.

See Section: 8.2

6.2 Environmental precautions

Do not allow to enter drains, sewers or watercourses. Advise Authorities if spillage has entered water course or sewers or has

contaminated soil or vegetation.

6.3 Methods and materials for containment and cleaning up

Caution – spillages may be slippery. Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for

disposal or recovery.

6.4 Reference to other sections

See Also Section 8.

7. Handling and storage

7.1 Precautions for safe handling Avoid conta

Avoid contact with eyes, skin and clothing.

Avoid generation of mist. Provide adequate ventilation.

Emergency shower and eye wash facilities should be readily available.

See Also Section 8

7.2 Conditions for safe storage, including any incompatibilities

Keep at a temperature not exceeding (°C): 50

Do not allow material to freeze. Provide an adequate bund wall. Unsuitable containers: Aluminium

See Also Section 10.

7.3 Specific end use(s)

Not known.

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8. Exposure Controls/Personal Protection

8.1 Control parameters

SUBSTANCE.	Occupational Exposure Limits	
Silicic acid, sodium salt	No Occupational Exposure Limit assigned.	
	An exposure limit of 2 mg/m3 (15 min TWA) is recommended by	
	analogy with sodium hydroxide (UK EH40).	

	Oral /	Inhalation	Dermal / mg/kg
Derived No Effect Level (DNEL)	mg/kg bw/d	/ mg/m³	bw/d
Workers - Acute - Systematic effects	-	-	-
Workers - Acute - Local effects	-	-	-
Workers - Long Term - Systematic effects	-	5.61	1.59
Workers - Long Term - Local effects	-	-	-
Consumers - Acute - Systematic effects	-	-	-
Consumers - Acute - Local effects	-	-	-
Consumers - Long Term - Systematic effects	0.80	1.38	0.80
Consumers - Long Term - Local effects	-	-	-

Risk management measures (RMMs) for identified uses must be implemented as described in this SDS.

	Predicated No Effect Concentration
PNEC Water (fresh)	7.5 mg/l
PNEC Water (marine)	1 mg/l
PNEC Water (intermittent)	7.5 mg/l
PNEC Sediment	Not available
PNEC Soil	Not available
PNEC Sewage treatment plant	348 mg/l
PNEC Secondary Poisoning (oral)	Not available

8.2 Exposure controls Wear protective equipment to comply with good occupational

hygiene practice. Do not eat, drink or smoke at the work place.

8.2.1 Appropriate Engineering methods to prevent or control exposure are preferred. **Methods include process or personnel enclosure, mechanical**

ventilation (dilution and local exhaust), and control of process

conditions.

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8.2.2 Personal Protection

Respiratory protection Respiratory protection not normally required. Advice on respiratory

protective equipment is given in the HSE (Health Safety Executive)

publication HS(G)53.

Eye/face protection Chemical goggles (EN 166)

Skin protection Wear suitable protective clothing and gloves.

Plastic or rubber gloves. For example EN374-3, level 6

breakthrough time (>480min).

Wear suitable overalls. For example EN ISO 13982 (dust), EN 14605

(liquid splashes).

8.2.3 Environmental Exposure

Controls

The primary hazard of EcOseal is the alkalinity. Avoid release to

the environment

9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Liquid. Almost colourless

Odour Odourless.

Odour Threshold (ppm) Not applicable. pH (Value) Strongly alkaline.

Freezing Point (°C) No data

Melting Point (°C) Not applicable.

Boiling Point (°C) 100

Flash Point (°C) [Closed cup]

Evaporation rate

Flammability (solid, gas)

Explosive Limit Ranges

Vapour Pressure (mm Hg)

Not applicable.

Not applicable.

Not applicable.

Vapour Density (Air=1) No data.

Density (g/ml) 1.4 - 1.6 (typically)

Solubility (Water) Soluble.
Solubility (Other) No data.
Partition Coefficient No data.
Auto Ignition Point (°C) Not appl

Auto Ignition Point (°C) Not applicable.

Decomposition Temperature (°C) Not applicable.

Viscosity (mPa. s) No data.

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Explosive properties Not applicable. Oxidising Properties Not applicable.

9.2 Other Information No data.

10. Stability and Reactivity

10.1 Reactivity See section: 10.3

10.2 Chemical stability

10.3 Possibility of hazardous

Reactions When arc welding vessels containing aqueous solutions of this

Stable.

material, take care to control any explosion risk from hydrogen evolved by electrolysis. Aqueous solutions will react with aluminum, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids.

Can react with sugar residues to form carbon monoxide.

10.4 Conditions to avoidSee Section: 10.310.5 Incompatible materialsSee Section: 10.3

11. Toxicological Information:

11.1 Information on toxicological effects

Acute toxicity

Ingestion All symptoms of acute toxicity are due to high alkalinity. Material will

cause irritation. Oral LD50 (rat) 3400 mg/kg bw

Inhalation Mist is irritant to the respiratory tract. All symptoms of acute toxicity

are due to high alkalinity. Inhalation LC50 (rat) >2.06 g/m³

Skin Contact Material will cause irritation. Dermal LD50 (rat) >5000 mg/kg bw

Eye Contact Material will cause severe irritation. Risk of serious damage to eyes.

Skin corrosion/Irritation Irritating to skin.

Serious Eye damage/irritation Irritating to eyes. Risk of serious damage to eyes.

Sensitisation Not sensitising.

Mutagenicity No evidence of genotoxicity. In vitro/in vivo negative.

Carcinogenicity No structural alerts.

Reproduce toxicity No evidence of reproductive toxicity or developmental toxicity.

STOT – single exposure Not classified.

STOT – repeated exposure Not classified. NOAEL oral (rat) >159 mg/kg bw/d

Aspiration hazard Not classified.

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12. Ecological Information

12.1 Toxicity Fish (Brachydanio rerio) LC50 (96 hour) 1108 mg/l

Not applicable.

Aquatic invertebrates: (Daphnia magna) EC50 (48 hour) 1700 mg/l

12.2 Persistence and degradability Inorganic. Soluble silicates, upon dilution, rapidly depolymerise

into molecular species indistinguishable from natural dissolved silica.

Inorganic. The substance has no potential for bioaccumulation.

12.3 Bioaccumulative potential

12.4 Mobility in soil

12.5 Results of PBT and vPvB

assessment

12.6 Other adverse effects

Not classified as PBT or vPvB

The alkalinity of this material will have a local effect on ecosystems

sensitive to changes in pH

13. Disposal Considerations

13.1 Waste treatment methods

Discharge of this product to sewage treatment works is dependent on local regulation with regard to pH controls. Dispose of this material and its container to hazardous or

special waste collection point.

Disposal should be in accordance with local, state or national

legislation.

14. Transport Information

Not classified according to the United Nations 'Recommendation on the Transport of Dangerous Goods'.

14.1 UN Number Not applicable.
14.2 Proper Shipping Name Not applicable.
14.3 Transport hazard class(es) Not applicable.
14.4 Packing group Not applicable.

14.5 Environmental hazards Not classified as a Marine Pollutant.

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15. Regulatory Information:

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

TSCA Inventory Status: Reported/Included. **AICS Inventory Status:** Reported/Included. DSL/NDSL Inventory Status: Reported/Included.

German Water Hazard Classification VwVwS: Product ID number 1314, WGK class 1 (low hazard to water).

16. Other Information:

Data referenced in this eSDS is from company-owned information and from data legitimately accessed by MACTOOL for Tool-Co through membership of Industry Consortia or other agreements. This includes data relating to toxicology, ecotoxicology, DNELs, PNECs and other information in this eSDS and its annex.

This SDS was last reviewed: 05/2016

The following sections contain revisions or new statements: All sections.

GLOSSARY

H315: Causes skin irritation.

H318: Causes serious eye damage. H335: May cause respiratory irritation.

STOT SE 3: Specific target organ toxicity — single exposure Category 3

Derived No effect Level DNEL:

Predicted No Effect Concentration PNEC: PBT: Persistent, Bioaccumulative and Toxic

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