



## Boss Surface Finisher

Part Number: ASF20  
Version Number: 1.1

Issue Date: 17/11/2023  
Print Date: 17/11/2023

### SECTION 1 - Identification of the substance / mixture and of the company / undertaking

#### Product Identifier

Product Identifier	Boss Surface Finisher
Synonyms	Not Available
Other means of identification	ASF20

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Concrete surface hardener or densifier.
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#### Details of the manufacturer or supplier of the safety data sheet

Registered Company Name	Allcon Group Pty Ltd
Address	50 Merrindale Drive, CROYDON SOUTH VIC 3136 Australia
Telephone	1300 255 266
Fax	Not Available
Website	allcongroup.com.au
Email	sales@allcongroup.com.au

#### Emergency Telephone number

Association / Organisation	Poisons Information Centre
Emergency Telephone number	131 126
Other Numbers	000 (Fire, Police, Ambulance)

### SECTION 2 - Hazards Identification

#### Classification of the substance or mixture

**HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.**

Poisons Schedule	5
Hazard Classification	Skin Corrosion / Irritation - Category 2, Serious Eye Damage - Category 2A, Acute Toxicity (Oral) - Category 4

#### Label Elements

	GHS07
Hazard pictogram(s)	
Signal Word	Warning

#### Hazard Statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation

**Precautionary Statement(s) (Prevention)**

<b>P264</b>	Wash contacted areas thoroughly after handling.
<b>P270</b>	Do not eat, drink or smoke when using this product.
<b>P280</b>	Wear protective gloves/protective clothing/eye protection/face protection.

**Precautionary Statement(s) (Response)**

<b>P301+P312</b>	IF SWALLOWED: call a POISON CENTER/doctor/physician if you feel unwell.
<b>P302+P352</b>	IF ON SKIN: wash with plenty of water.
<b>P305+P351+P338</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
<b>P321</b>	Specific treatment (see First Aid Measures on Safety Data Sheet).
<b>P330</b>	Rinse mouth.
<b>P332+P313</b>	IF SKIN irritation occurs: Get medical advice/attention.
<b>P337+P313</b>	IF eye irritation persists: Get medical advice/attention.
<b>P362</b>	Take off contaminated clothing.

**Precautionary Statement(s) (Disposal)**

<b>P501</b>	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
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**SECTION 3 - Composition / information on ingredients**

**Substances**

See section below for composition of Mixtures

**Mixtures**

CAS No	Proportion	Name
1344-09-8	Sodium Silicate	30-60%
Not Available	Other Non Hazardous Ingredients	30-60%

**SECTION 4 - First aid measures**

**Description of first aid measures**

<b>Swallowed</b>	Immediately rinse mouth with water. Repeat until product is thoroughly removed. Give water to drink. DO NOT induce vomiting due to risk of further damage. If vomiting occurs give water to drink to further dilute the product. Get medical attention. Contact the Poisons Information Centre (available in each State capital city).
<b>Eye</b>	Immediately rinse with plenty of water for at least 15 minutes. Eyelids to be held open. Urgently get medical assistance. Transport to hospital or medical centre.
<b>Skin</b>	Immediately wash contaminated skin with plenty of water. Soaked clothing should be removed while under the safety shower and skin washed with running water for a minimum of 30 minutes. No attempt should be made to neutralize the alkali with acid solutions, as this could aggravate the burns. Get medical attention if health effects develop or persist
<b>Inhaled</b>	If inhaled and adverse effects occur, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a Poison Center or seek medical attention if you feel unwell.

<b>Advice To Doctor</b>	Treat as a corrosive substance. Treat symptoms with supportive care. There is no specific antidote. The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage. It may take 48-72 hours to assess the extent of an ocular burn. Probable mucosal damage may contraindicate the use of gastric lavage.
<b>Medical conditions aggravated by exposure</b>	May aggravate pre existing conditions such as: Eye disorders that decrease tear production or have reduced integrity. Skin disorders that compromise the integrity of the skin such as: psoriasis, rashes, eczema, skin infections. Pulmonary disorders that compromise the integrity of the lungs such as asthma.

## SECTION 5 - Fire Fighting Measures

<b>General Measures</b>	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
<b>Flammability Conditions</b>	Product is a non-flammable liquid.
<b>Extinguishing media</b>	Compatible with dry chemical water spray, regular foam and carbon dioxide extinguishing media
<b>Hazardous Products of Combustion</b>	Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminium, tin, lead, and zinc.
<b>Special Fire Fighting Instructions</b>	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
<b>Personal Protective Equipment</b>	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
<b>Flash Point</b>	No Data Available
<b>Lower Explosion Limit</b>	No Data Available
<b>Upper Explosion Limit</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Hazchem Code</b>	No Data Available

## SECTION 6 - Accidental Release Measures

<b>General Response Procedure</b>	Avoid accidents, clean up immediately. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Spilled material is very slippery. Only water will evaporate from a spill of this material. Dries to form glass film which can easily cut skin. Sinks and mixes with water. High pH of this material is harmful to aquatic life.
<b>Clean Up Procedure</b>	Small spill cleanup: Mop up and neutralize liquid, then discharge to sewer in accordance with federal, state and local regulations or permits. Large spill cleanup: Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material.
<b>Containment</b>	Stop leak if safe to do so. Isolate the danger area
<b>Decontamination</b>	If containment is impossible, neutralize contaminated area and flush with large quantities of water.
<b>Environmental Precautionary Measures</b>	Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management
<b>Evaluation Criteria</b>	Evacuate all unnecessary personnel.
















<b>Personal Precautionary Measures</b>	Personnel involved in the clean up should wear full protective clothing as listed in section 8.
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## SECTION 7 - Handling and Storage

<b>Handling</b>	Avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth. Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Loading temperature 45-95°C. Use in well ventilated area. Avoid generating and inhaling mists. Avoid skin and eye contact. Avoid inhaling the vapour or mist. Follow normal industrial safety practices. The use of protective clothing and equipment depends on the degree and nature of exposure.
<b>Storage</b>	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Store away from acids and foodstuffs. Store in clean steel or plastic containers. Separate from acids, reactive metals, and ammonium salts. Storage temperature 0-95°C. Loading temperature 45-95°C. Do not store in aluminium, fiberglass, copper, brass, zinc or galvanized containers. Mild steel is the most suitable material of construction for drums, tanks, valves, pipe-work, etc. Concrete storage tanks can be used but must be strong enough to hold the weight of Sodium Silicate solution to be stored and thick enough to prevent seepage of water. Mild steel is the most suitable material of construction for drums, tanks, valves, pipework, etc. Concrete storage tanks can be used but must be strong enough to hold the weight of Sodium Silicate solution to be stored and thick enough to prevent seepage of water. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
<b>Container</b>	Store in original packaging as approved by manufacturer. Store in clean steel or plastic containers. Do not store in aluminium, fibreglass, copper, brass, zinc or galvanized containers. Mild steel is the most suitable material of construction for drums, tanks, valves, pipe-work, etc. Concrete storage tanks can be used but must be strong enough to hold the weight of Sodium Silicate solution to be stored and thick enough to prevent seepage of water. Mild steel is the most suitable material of construction for drums, tanks, valves, pipe-work, etc. Unsuitable Container Materials: Sodium Silicate solutions are strongly alkaline and are not compatible with aluminium, copper, brass, bronze, zinc, tin and lead. Can etch glass if not promptly removed.

## SECTION 8 - Exposure Controls / Personal Protection

<b>General</b>	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). Sodium Silicate : TWA 5mg/m3 (STEL 5mg/m3) This standard is the manufacturers recommended limit for good practice. All atmospheric contamination should be minimised.
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No information available on biological limit values for this product

<b>Engineering Measures</b>	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the containment at its source, preventing dispersion of it into the general work area. Use in well ventilated area. Avoid generating and inhaling mists.										
<b>Individual protection measures such as personal protective equipment</b>	<table border="0" style="width: 100%; text-align: center;"> <tr> <td>Respirator</td> <td>Eye</td> <td>Gloves</td> <td>Clothing</td> <td>Boots</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	Respirator	Eye	Gloves	Clothing	Boots					
Respirator	Eye	Gloves	Clothing	Boots							
											
<b>Personal Protection Equipment</b>	<p><b>RESPIRATOR:</b> Respiratory protection is not normally required due to low inhalation risk (AS1715/1716).</p> <p><b>EYES:</b> Safety glasses, goggles or faceshield as appropriate (AS1336/1337).</p> <p><b>HANDS:</b> Plastic or Rubber gloves (AS2161).</p> <p><b>CLOTHING:</b> Overalls, splash apron or similar protective apparel and chemical resistant safety boots (AS3765/2210).</p>										
<b>Work Hygienic Practices</b>	<p>Wash contaminated clothing and protective equipment before storing and re-using.</p> <p>The use of barrier cream is recommended.</p>										

## SECTION 9 - Physical and Chemical Properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Thick Liquid
<b>Odour</b>	Odourless
<b>Colour</b>	Clear to Hazy, Colourless
<b>pH</b>	Nov-13
<b>Vapour Pressure</b>	No Data Available
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	101-102°C
<b>Melting Point</b>	Approx 0°C
<b>Freezing Point</b>	-1°C
<b>Solubility</b>	Soluble in water
<b>Specific Gravity</b>	1.2-1.7 Typical Range
<b>Flash Point</b>	No Data Available
<b>Auto Ignition Temperature</b>	No Data Available
<b>Evaporation Rate</b>	No Data Available
<b>Bulk Density</b>	No Data Available
<b>Corrosion Rate</b>	No Data Available
<b>Decomposition Temperature</b>	Water boils off at 105-108°C
<b>Density</b>	10.0-13.4lbs/gal
<b>Specific Heat</b>	No Data Available
<b>Molecular weight</b>	No Data Available
<b>Net Propellant Weight</b>	No Data Available
<b>Octanol Water Coefficient</b>	No Data Available
<b>Vapour Temperature</b>	No Data Available
<b>Viscosity</b>	20-1500 cp (no Data available)
<b>Volatile percent</b>	>50%
<b>VOC Volume</b>	No Data Available
<b>Gas Group</b>	No Data Available
<b>Explosive Properties</b>	No Data Available

## SECTION 10 - Stability and Reactivity

<b>Chemical Stability</b>	Stable in sealed containers. Absorbs Carbon Dioxide on exposure to air, which results in the deposition of Insoluble Silica.
<b>Conditions to Avoid</b>	Avoid leaving solutions exposed to carbon dioxide in the air. Prolonged storage above 140 °F (60 °C). Avoid static discharge, shock, or vibration.
<b>Materials to Avoid</b>	Can generate heat when mixed with acids. Avoid prolonged contact with alkali sensitive metals such as: aluminum, brass, bronze, copper, lead, tin, zinc because flammable hydrogen gas can be generated.
<b>Hazardous Decomposition Products</b>	If Overheated: The solution will boil and irritating Sodium Silicate containing mists will be released. Flammable hydrogen gas will form on reaction with aluminium, copper, zinc etc. Gels and generates heat when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas.
<b>Hazardous Polymerisation</b>	Will not occur

## SECTION 11 - Toxicological Information

<b>General Information</b>	<p>Acute Oral Toxicity LD50 (rat): 1280 mg/kg (as 100%)</p> <p>The acute oral toxicity of this product has not been tested. When Sodium Silicates were tested on a 100% solids basis, their single dose acute oral LD50 in rats ranged from 1280 mg/kg (above) to 3200 mg/kg. The acute oral lethality resulted from nonspecific causes. These products contain 30-60% Sodium Silicate thus each overall product has an Acute Oral Toxicity LD50 (rat): &gt;2000 mg/kg.</p> <p>Eye Irritation: Severe Irritant. Produced corneal, iridal and conjunctival irritation.</p> <p>Skin Irritation: Irritant.</p> <p>When tested for primary skin irritation potential, this material produced irritation with a primary irritation index of 3 to abraded skin and 0 to intact skin.</p> <p>Human experience confirms that irritation occurs when this material gets on clothes at the collar, cuffs or other areas where abrasion may occur.</p> <p>Subchronic Data: In a study of rats fed Sodium Silicate in drinking water for three months, at 200, 600 and 1800 ppm, changes were reported in the blood chemistry of some animals, but no specific changes to the organs of the animals due to Sodium Silicate administration were observed in any of the dosage groups. Another study reported adverse effects to the kidneys of dogs fed Sodium Silicate in their diet at 2.4g/kg/day for 4 weeks, whereas rats fed the same dosage did not develop any treatment-related effects. Decreased numbers of births and survival to weaning was reported for rats fed Sodium Silicate in their drinking water at 600 and 1200 ppm.</p> <p>Special Studies: Sodium Silicate was not mutagenic to the bacterium E. Coli when tested in a mutagenicity bioassay. There are no known reports of carcinogenicity of Sodium Silicates. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans.</p> <p>Sodium Silicate is not listed by IARC, NTP or OSHA as a carcinogen. Chronic Health Effects: All Routes:Prolonged or repeated skin contact may cause dry skin. Defatting of the skin can result in irritation and dermatitis (inflammation of the skin).</p> <p>in sealed containers. Absorbs Carbon Dioxide on exposure to air, which results in the deposition of Insoluble Silica.</p>
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<b>Eye Irritant</b>	Causes serious eye irritation. Eye exposures may cause burns to the eye lids, conjunctivitis, corneal edema and corneal burn. Eye exposure may cause severe irritation, and pain. The full extent of the injury may not be immediately apparent.
<b>Ingestion</b>	Harmful if swallowed. Gastrointestinal System Effects: Exposure by ingestion may cause irritation, swelling, and perforation of upper and lower gastrointestinal tissues. Permanent scarring may occur.
<b>Inhalation</b>	Respiratory System Effects: Inhalation of this material may cause irritation, redness of upper and lower airways, coughing.
<b>Skin Irritant</b>	Skin Irritation. Skin exposure may cause irritation, redness, itching, swelling, burning sensation. Repeated and prolonged skin contact may cause a dermatitis
<b>Carcinogen Category</b>	No Data Available

## SECTION 12 - Ecological Information

<b>Ecotoxicity</b>	The following data is reported for Sodium Silicates on a 100% solids basis: A 96 hour median tolerance for fish ( <i>Gambusia affinis</i> ) of 2320 ppm; a 96 hour median tolerance for water fleas ( <i>Daphnia magna</i> ) of 247 ppm; a 96 hour median tolerance for snail eggs ( <i>Lymnea</i> ) of 632 ppm; and a 96 hour median tolerance for Amphipoda of 160 ppm. These products contain 30-60% Sodium Silicate. High pH of this material is harmful to aquatic life.
<b>Persistence / Degradability</b>	This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica. It does not contribute to BOD.
<b>Mobility</b>	Expected to be mobile in soil. Diluted material rapidly depolymerizes to yield dissolved silica in a form that is indistinguishable from natural dissolved silica.
<b>Environmental Fate</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulation Potential</b>	This material does not bioaccumulate except in species that use silica as a structural material such as diatoms and siliceous sponges. Neither silica nor sodium will appreciably bioconcentrate up the food chain.
<b>Environmental Impact</b>	No data available

## SECTION 13 - Disposal Considerations

<b>General Information</b>	Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.
<b>Special Precautions for Landfill</b>	Contact a specialist disposal company or the local waste regulator for advice. Normally suitable for disposal at approved land waste site after dilution or neutralisation. Landfill: After dilution or neutralisation may be landfilled. Incineration: Not suitable for incineration.

## SECTION 14 - Transport Information

**Land Transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Air Transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**Sea Transport IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS**

**14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

<b>Proper Shipping Name</b>	Sodium Silicate Solution
<b>Group</b>	Not Available

**14.7.3. Transport in bulk in accordance with the IGC Code**

<b>Proper Shipping Name</b>	Sodium Silicate Solution
<b>Group</b>	Not Available

**SECTION 15 - Regulatory Information**

<b>General Information</b>	No Data Available
<b>Poisons Schedule</b>	5

**National / Regional Inventories**

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Not Determined
<b>Canada (NDSL)</b>	Not Determined
<b>China (IECSC)</b>	Not Determined
<b>Euorpe (EINECS)</b>	Not Determined
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ECNS/METI)</b>	Not Determined
<b>Korea (KECI)</b>	Not Determined
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NCIoC)</b>	Listed
<b>Phillippines (PICCS)</b>	Not Determined
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Not Determined

**SECTION 16 - Other Information**

<b>Revision Date</b>	17/11/2023
<b>Initial Date</b>	17/11/2023

End of SDS