



SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Sodium Silicate AS100A, AS120, AS140
- Synonyms: Sodium silicate liquid (molar ratio $>1.6 \leq 2.6$)
- REACH Registration Number : 01-2119448725-31-0012

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

- Use of the substance/mixture: Industrial, Consumer and Professional uses

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Palatine Paints & Chemicals Limited
- Address of Supplier: 55 Smallbrook Lane, Leigh, Lancashire, WN7 5PZ
- Telephone: 01942 884122
- Responsible Person: sales@palatinepaints.co.uk
- Email: sales@palatinepaints.co.uk

1.4 Emergency telephone number

- Emergency Telephone: 01942 884122 (not 24 hrs)
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SECTION 2 Hazards identification

Hazards summary: Alkaline solution

2.1 Classification of the substance or mixture

- CLP: Skin Irrit. 2, Eye Dam. 1
- CHIP:

2.2 Label elements



- Signal Word: Danger
- Hazard statements
 - H315 - Causes skin irritation.
 - H318 - Causes serious eye damage.
- Precautionary statements
 - 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): 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.

2.3 Other hazards

- No information available
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SECTION 3 Composition/information on ingredients

3.1 Substances

SECTION 3 Composition/information on ingredients (....)

- Sodium Silicate (molar ratio $>1.6 \leq 2.6$)
CAS Number: 1344-09-8
EC Number: 215-687-4
% w/w 20-60
 - Water
CAS Number:
EC Number: 231-791-2
% w/w 40-80
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SECTION 4 First aid measures

4.1 Description of first aid measures

- General Information
- Inhalation
After inhalation of spray mist: bring to fresh air, seek medical advice if necessary.
- Ingestion
Rinse mouth and throat.
Drink 1-2 glasses of water
P313 - Get medical advice/attention.
- Contact with skin
Rinse with running water and soap.
Apply replenishing cream
Remove contaminated clothing
- Contact with eyes
Immediately flush eyes with eyewash solution or water (for 10 minutes).
Seek an oculist if necessary.

4.2 Most important symptoms and effects, both acute and delayed

- Causes skin irritation
- Causes serious eye damage

4.3 Indication of any immediate medical attention and special treatment needed

- Speed in removal of material is of prime importance
 - Remove soiled clothing immediately
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SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- Not applicable
- Inorganic material.
- Treat fire according to surrounding area

5.2 Special hazards arising from the substance or mixture

- Inorganic material.
- Not applicable

5.3 Advice for firefighters

- No special precautions required
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SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

SECTION 6 Accidental release measures (....)

- Avoid contact with skin and eyes
- Danger of slipping on spilled product

6.2 Environmental Precautions

- Do not allow to enter sewers/ surface or ground water
- Prevent the spreading of the product into the environment by diking with sand or other absorbent material
- Contact the authorities in the event of a large product spillage to water courses or sewage systems if spillage has contaminated soil.

6.3 Methods and material for containment and cleaning up

- Remove with liquid-absorbing material for example sand
- Remove last traces by diluting with plenty of (warm) water.

6.4 Reference to other sections

- See Section 8
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SECTION 7 Handling and storage

7.1 Precautions for safe handling

- Avoid contact with eyes, skin and clothing
- Wear protective clothing as per section 8
- Eye wash facilities should be readily available

7.2 Conditions for safe storage, including any incompatibilities

- Keep away from acid
- Keep from freezing
- Keep packing/ storage vessel closed
- Compatible materials: (Stainless) steel
- Incompatible materials: Zinc, Tin, Aluminium, Copper and their alloys
- See Section 10

7.3 Specific end use(s)

- See Section 1.2
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SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- No particular measures required

8.2 Exposure controls



- Engineering methods to prevent or control exposure are preferred.
 - Wear protective clothing to minimize skin contact.
 - Wear eye/face protection
 - Wear suitable alkaline resistant gloves
 - P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
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SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Viscous liquid colourless to translucent
 - Odour: Odourless
 - pH: (value) 1% solutions ranges from from 11 to 13
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SECTION 9 Physical and chemical properties (....)

- Melting point/Range: 0 to -12 °C
- Boiling Point/Range: 100 °C
- Density: 1.30- 1.60 kg/l
- Solubility in water: Soluble
- Viscosity: Viscosity 10 to 10,000 mPas at 20 deg C

9.2 Other information

- No information available
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SECTION 10 Stability and reactivity

10.1 Reactivity

- See Section 10.3

10.2 Chemical stability

- Stable under normal conditions

10.3 Possibility of hazardous reactions

- Aqueous solutions will react with aluminium, zinc, tin, copper and their alloys evolving hydrogen gas which can form an explosive mixture with air.
- Exothermic reaction if in contact with acids

10.4 Conditions to avoid

- Avoid contact in concentrated form with acids.

10.5 Incompatible materials

- Avoid contact with aluminum,zinc,tin, copper and their alloys

10.6 Hazardous Decomposition Products

- No information available
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SECTION 11 Toxicological information

11.1 Information on toxicological effects

- LD50 (oral, rat) 3.4 mg/kg
 - LC50 (inhalation, rat) ; > 2.06 mg/m³ (4h- OECD 403)
 - LD50 (dermal rat) > 5000 mg/kg
 - Eye contact: Causes serious eye damage, unless treated immediately
 - Skin contact Causes skin irritation
 - Carcinogenicity No structural alerts
 - Mutagenicity No evidence of genotoxicity. In vitro/in vivo negative
 - Sensitization: Not sensitising
 - Reproductive toxicity Effects on fertility: NOAEL (rat) > 159 mg/kg/bw/d.
Developmental toxicity: NOAEL (mouse) > 200 mg/kg/bw/d
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SECTION 12 Ecological information

12.1 Toxicity

- LC50 (Brachydanio rerio) 1108 mg/l (96 hr)
- EC50 (Daphnia magna) 1700 mg/l (48 hr)
- EC50 (scenedesmus subspicatus) biomass 207 mg/l (72 hr)
- EC50 (scenedesmus subspicatus) growth rate > 345.4 mg/l (72 hr)

12.2 Persistence and degradability

SECTION 12 Ecological information (....)

- Soluble silicates upon dilution rapidly depolymerise into molecular species indistinguishable from natural dissolved silica. They combine with ions like Ca, Mg, Fe, Al and others to end up as insoluble compounds similar to constituents of natural soils.

12.3 Bioaccumulation Potential

- The product is not bioaccumulating

12.4 Mobility in soil

- No further relevant information available.

12.5 Results of PBT and vPvB assessment

- Not Classified as PBT/vPvB by current EU criteria.

12.6 Other Adverse Effects

- The alkalinity of this material will have local effect on ecosystems sensitive to changes in pH.
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SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Dispose of the product, packaging and any residuals in compliance with local and national regulations
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SECTION 14 Transport information

14.1 UN Number

- UN No.: None

14.2 UN Proper Shipping Name

- Proper Shipping Name: None

14.3 Transport hazard class(es)

- Hazard Class: None

14.4 Packing group

- Packing Group: None

14.5 Environmental hazards

- No information available

14.6 Special precautions for user

- See Section 7.2

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

- Not applicable
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SECTION 15 Regulatory information

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

15.2 Chemical Safety Assessment

SECTION 16 Other information

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its accuracy, reliability or completeness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not

SECTION 16 Other information (....)

assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use.

This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

--- end of safety datasheet ---
