

Inobond 325

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product name : Inobond 325

1.2. Recommended use and restrictions on use

Welding and soldering products

1.3. Supplier

Zaclon LLC
2981 Independence Road
Cleveland, OH 44115
T 800-356-7327

1.4. Emergency telephone number

Emergency number : Chemtrec 1 800 424 9300

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US/CAN classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS-US/CAN labeling

No labeling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-CAN classification	GHS-US classification
Water	(CAS-No.) 7732-18-5	50 - 100	Not classified	Not classified
Sodium silicate	(CAS-No.) 1344-09-8	10 - 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	Skin Irrit. 2, H315 Eye Irrit. 2, H319
Potassium silicate	(CAS-No.) 1312-76-1	10 - 25	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Provide fresh air. In the event of symptoms take medical treatment.
First-aid measures after skin contact : Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In the event of symptoms take medical treatment.
First-aid measures after eye contact : Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
First-aid measures after ingestion : Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : None anticipated.
Symptoms/effects after skin contact : None anticipated.
Symptoms/effects after eye contact : None anticipated.
Symptoms/effects after ingestion : None anticipated.

Inobond 325

Safety Data Sheet

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Carbon dioxide, dry chemical, alcohol foam.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Full water jet.

5.3. Specific hazards arising from the hazardous product

Fire hazard : None.

Explosion hazard : None known.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Heating causes rise in pressure with risk of bursting. Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen.

Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothes. Use personal protection equipment. Special danger of slipping by leaking/spilling product.

6.2. Methods and materials for containment and cleaning up

For containment : Stop the flow of material, if this is without risk.

Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Rinse away rest with plenty of water. Dispose according to legislation.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Observe the usual precautions for handling chemicals. Do not mix with other chemicals. Avoid contact with skin, eyes and clothes. Do not breathe aerosol. Use personal protection equipment.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep/Store only in original container. Keep container tightly closed. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Provide solvent-resistant and impermeable floor. Storage stability 12 months. Storage temperature: +5 °C - +45 °C. Keep away from food, drink and animal feedingstuffs. Do not store together with: Acids

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls : General (mechanical) room ventilation is expected to be satisfactory for normal handling.

Hand protection : Wear chemical resistant gloves to minimize skin contact.

Eye protection : Eye glasses with side protection.

Skin and body protection : Wear suitable working clothes.

Respiratory protection : If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : Clear, colorless.

Odor : Odorless

Odor threshold : No data available

pH : 11 - 12

Relative evaporation rate (butyl acetate=1) : No data available

Inobond 325

Safety Data Sheet

Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C (>212 F)
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Density at 20 °C	: ca. 1.38 g/cm ³
Solubility	: No data available
Viscosity, dynamic at 20 °C	ca. 250 mPas
Log Pow	: No data available
Explosion limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Chemical stability	: The product is stable at normal handling and storage conditions.
Possibility of hazardous reactions	: Will not occur.
Conditions to avoid	: Protect against frost.
Incompatible materials	: Exothermic reaction with aluminum, tin, zinc and alloys of these metals generating hydrogen gas.
Hazardous decomposition products	: None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Water (7732-18-5)

LD50 oral rat	> 90 ml/kg
---------------	------------

Sodium silicate (1344-09-8)

LD50 oral rat	1960 mg/kg
---------------	------------

Potassium silicate (1312-76-1)

LD50 oral rat	5700 mg/kg
---------------	------------

Skin corrosion/irritation	: Not classified pH: 11 - 12
Serious eye damage/irritation	: Not classified pH: 11 - 12
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified

Inobond 325

Safety Data Sheet

SECTION 12: Ecological information

12.1. Toxicity

Aquatic acute : Not classified
Aquatic chronic : Not classified

Sodium silicate (1344-09-8)

LC50 fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
BCF fish 1	(no bioaccumulation expected)

Potassium silicate (1312-76-1)

LC50 fish 1	301 - 478 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)
LC50 fish 2	3185 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
BCF fish 1	(no bioaccumulation expected)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Sodium silicate (1344-09-8)

BCF fish 1	(no bioaccumulation expected)
------------	-------------------------------

Potassium silicate (1312-76-1)

BCF fish 1	(no bioaccumulation expected)
------------	-------------------------------

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

SECTION 13: Disposal considerations

13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with TDG
Not applicable

In accordance with DOT
Not applicable

SECTION 15: Regulatory information

15.1. Canada National regulations

Water (7732-18-5)

Listed on the Canadian DSL (Domestic Substances List)

Sodium silicate (1344-09-8)

Listed on the Canadian DSL (Domestic Substances List)

Potassium silicate (1312-76-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2. US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sodium silicate (1344-09-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Potassium silicate (1312-76-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.3. US State regulations

No additional information available

Inobond 325

Safety Data Sheet

SECTION 16: Other information

Full text of H-phrases:

H315	Causes skin irritation
H319	Causes serious eye irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.