Penetron ARC - Part B (Liquid)

Safety Data Sheet

according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

Date of issue: 11/02/2018 Revision date: 09/16/2024 Version: O09/P

SECTION 1: Identification

1.1. Product identifier

Product name : Penetron ARC - Part B (Liquid)

Product code : Not available

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

Use of the substance/mixture : Acid Resistant Coating.

1.3. Details of the supplier of the safety data sheet

Penetron International, Ltd.
601 S. 10th Street, Unit 300
Allentown, PA 18103 - USA
T +1 (631) 941-9700
info@penetron.com – www.penetron.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: US and Canada: 1-800-424-9300; International +1 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irritation 2

Serious Eye Damage / Eye Irritation 2A

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : **H315:** Causes skin irritation. **H319:** Causes serious eye irritation.

Precautionary statements (GHS-US) : **P264+P265**: Wash hands, forearms and face thoroughly after handling. Do not touch eyes.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P317: If skin irritation occurs, get medical help.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317: If eye irritation persists, get medical help.
P362+P364: Take off contaminated clothing and wash before reuse.
P321: Specific treatment, See First Aid instructions.

2.3. Other hazards

No other infromation available

2.4. Unknown acute toxicity (GHS US)

Not applicable.

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable.

3.2. Mixture

Name	Product identifier	%
Sodium silicate	(CAS No) 1344-09-8	10 - 25

* The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person from exposure source, consult a medical professional. If breathing is difficult, trained personnel should administer emergency oxygen. Seek immediate medical attention.

First-aid measures after skin contact : Immediately remove contaminated clothing. Blot or brush away excess chemical and wash affected skin with plenty of water. If symptoms develop, obtain medical attention.

First-aid measures after eye contact : Immediately flush eyes with water for 30 minutes while holding eyelid(s) open. If contact lenses are present, do not delay irrigation or attempt to remove the lens. Obtain immediate medical attention.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth thoroughly with water and give 2 to 8 oz. (60 to 240 ml) of water to drink. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Alkaline. Irritating to eyes and skin.

4.3. Indication of any immediate medical attention and special treatment needed

Treat according to person's condition and specifics of exposure (show the label or SDS where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All are suitable. Use water spray, dry chemical, foam or carbon dioxide to extinguish flames. Use water spray to cool fire-exposed containers. Water or foam may cause frothing.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Material is not flammable. Containers can build pressure if exposed to heat or fire. Products of combustion may include, and are not limited to: oxides of carbon.

5.3. Advice for firefighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Use water spray to keep fire exposed containers cool.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Do not take internally. Do not get in eyes. Do not get on skin. Do not breathe mist. Keep container closed

6.2. Methods and material for containment and cleaning up

For containment : Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Scoop up material and place in a disposal container. Provide ventilation.

6.3. Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid getting in eyes, on skin, or on clothing. Avoid breathing dusts, mists or vapors. Do not swallow. Handle and open container with care. Do not eat, drink or smoke when using this product.

Hygiene measures : Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in original container. Store in dry, cool, well-ventilated area. Store at temperatures between 10-40 °C (50-104 °F). Protect from sunlight. Do not allow material to freeze. Keep away from food and drink.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sodium silicate (1344-09-8)	
ACGIH / OSHA	Not applicable.

8.2. Exposure controls

Appropriate engineering controls	:	Use exhaust ventilation to keep exposures (airborne levels of dust, fume, vapor, etc.) below exposure limits. Wastewater generated during the production process or cleaning operations should be collected
Hand protection	:	Wear chemically resistant, protective, impervious gloves such as neoprene.
Eye protection	:	Wear approved eye protection (properly fitted dust- or splash-proof chemical safety goggles) or face shield.
Skin and body protection	:	Wear suitable protective clothing.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	:	Maintain levels below Community environmental protection thresholds.
Other information	:	Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices. Prevent release of material to the environment, including sewage systems and water bodies.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear to Hazy
Color	:	No data available
Odor	:	Odorless
Odor threshold	:	No data available
pH	:	11.5 – 12.5
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	212° F (100° C)
Flash point	:	No data available
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Not flammable
Explosion limits	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Vapor pressure	:	No data available
Relative density	:	1.18 kg/l
Relative vapor density at 20 °C	:	No data available
Solubility	:	Soluble in water
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under normal ambient and anticipated storage conditions.

10.3. Possibility of hazardous reactions

Reaction with aluminium, zinc, tin and their alloys can evolve hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Ammonium salts, aluminum, tin, lead, zinc and acids.

10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon, ammonia gas, hydrogen gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Sodium silicate (1344-09-8)	
LD50 oral rat	3400 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat	> 2.06 g/m³

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Based on available data, the classification criteria are not met.

Germ cell mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Reproductive toxicity : Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure) : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Sodium silicate (1344-09-8)	
Fish	96h LC50: 1108 mg/L (Brachydanio rerio)
Invertebrates	48h EC50: 1700 mg/L (Daphnia magna)

12.2. Persistence and degradability

Upon dilution equivalent to natural dissolved silica. Biodegradable.

12.3. Bioaccumulative potential

The substance is not bioaccumulative.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : This material must be disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized wherever possible.

SECTION 14: Transport information

14.1. DOT, ADR, IMDG, IATA transportation

In accordance with DOT, ADR, IMDG, IATA

Not regulated for transport

Not regulated as Dangerous Goods

14.2. Additional information

Environmental hazards : Not classified as a Marine Pollutant.

Special precautions for users : Aluminum containers are not suitable for this material.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

15.2. US State regulations

California Proposition 65	:	This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

SECTION 16: Other information

Date of issue	:	11/02/2018
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Other information	:	None

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