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MATERIAL SAFETY DATA SHEET

Trade Name: Intercept
Date Prepared: December 18, 2020

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Intercept

Product weights: One (1) gallon pail = 10 pounds, Five (5) gallon pail = 50 pounds

Product description: A 3.22 weight ratio sodium silicate, 37.5% solution in water

Adhesive, binder, pulp & paper, water treatment, catalysts & gels

Manufacturer: Basecrete Technologies LLC

7968 Moyer Ave. Sarasota FL 34241

Phone number: 941-312-5142 Email: info @ basecreteusa.com

In case of emergency call: 1 416-255-7771

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical and Common Name CAS Registry Number Wt. % OSHA PEL ACGIH TLV
Water 7732-18-5 62.5% Not Established
Silicic acid, Sodium salt: 1344-09-8 37.5% Not Established Not Established

Sodium silicate

3. HAZARDSIDENTIFICATION

Emergency Overview: Clear to hazy, colorless, odorless, thick liquid. Causes moderate eye,

skin, and digestive tract irritation. Spray mist causes irritation to respiratory tract. Due to high pH of product, release into surface water is harmful to aquatic life. Noncombustible. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organics.

Eye contact: Causes moderate irritation to the eyes.

Skin contact: Causes moderate irritation to the skin.

Inhalation: Spray mist is irritating to respiratory system.

Ingestion: May cause irritation to mouth, esophagus, and stomach.

Chronic hazards: No known chronic hazards. Not listed by NTP, IARC or OSHA as a

carcinogen.

Physical hazards: Dries to form glass film which can easily cut skin. Spilled material is very

slippery. Can etch glass if not promptly removed.



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4. FIRST AIDMEASURES

Eye: In case of contact, immediately flush eyes with plenty of water for at least

15 minutes. Get medical attention.

Skin: In case of contact, immediately flush skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention.

Inhalation: If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

Ingestion: If swallowed, DO NOT induce vomiting. Get medical attention

immediately. If victim is fully conscious, give a cupful of water. Never

give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammable limits: This material is noncombustible.

Extinguishing Media: This material is compatible with all extinguishing media

Hazards to fire-fighters: See Section 3 for information on hazards when this material is present in

a fire.

Fire-fighting equipment: The following protective equipment for fire fighters is recommended when

this material is present in a fire: chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.

Hazardous Combustion

Products: Not available

Explosion data

Sensitivity to mechanical impact and static discharge: Not applicable

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear chemical goggles, body-covering protective clothing, chemical

resistant gloves, and rubber boots. See section 8.

Environmental Hazards: Sinks and mixes with water. High pH of this material is harmful to

aquatic life, see Section 12. Only water will evaporate from a spill of this

material.

Small spill cleanup: Mop up and neutralize liquid, dispose 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 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. If containment is impossible, neutralize contaminated area and flush with

large quantities of water.

CERCLA RQ (US): There is no CERCLA Reportable Quantity for this material. If a spill

goes off site, notification of state and local authorities is recommended.



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7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mist.

Keep container closed. Promptly clean residue from closures with cloth

dampened with water. Promptly clean upspills.

Storage: Keep containers closed. 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 aluminum, fiberglass, copper, brass, zinc or galvanized containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use with adequate ventilation. Keep containers closed. Safety shower

and eyewash fountain should be within direct access.

Respiratory protection: Use a NIOSH-approved dust and mist respirator where spray mist

occurs. Observe Provincial regulations for respirator use.

Skin protection: Wear body-covering protective clothing and gloves.

Eye protection: Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Thick liquid.
Color: Clear to hazywhite.
Odor: Odorlessor musty odor.

Odor threshold: **Notapplicable** *pH:* **Approximately 11.3**

Specific gravity: 1.39 g/cm³ (20°C), 41° Bé, 11.62 lbs/gal

Solubility in water:
Flash point:
Not applicable
Auto-ignition temperature:
Vapor pressure:
Vapor density:
Evaporation rate:
Boiling point:
Not applicable

Coefficient of water

/oil distribution: Not applicable

10. STABILITY AND REACTIVITY

Stability: This material is stable under all conditions of use and storage.

Conditions to avoid: None.

Materials to avoid: Gels and generates heat when mixed with acid. May react with

ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and

zinc.

Hazardous decomposition

products: Hydrogen.



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11. TOXICOLOGICAL INFORMATION

Acute Data: When tested for eye and skin irritation potential, a similar material caused

> moderate irritation to the eyes and moderate irritation to the skin. Human experience indicates that skin irritation occurs, particularly, when sodium silicates get on clothes at the collar, cuffs or other areas where abrasion may

occur.

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 1500 mg/kg to 3200 mg/kg. The acute oral lethality resulted from

nonspecific causes. This product contains approximately 37.5% sodium silicate.

Sub chronic 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.

Special Studies: Frequent ingestion over extended periods of time of gram quantities of silicates

is associated with the formation of kidney stones and other siliceous urinary

calculi in humans.

Mutagenicity: Sodium silicate was not mutagenic to the bacterium E. Coli when

tested in a mutagenicity bioassay.

Carcinogenicity: There are no known reports of carcinogenicity of sodium silicates. Sodium silicate is not listed by IARC, NTP or OSHA as a carcinogen.

Sensitization to product: Not applicable Reproductive toxicity: Not applicable

Teratogenicity: Not applicable

Name of toxicologically synergistic products: Not applicable.

12. ECOLOGICAL INFORMATION

The following data is reported for sodium silicates on a 100% solidsbasis: A 96-*Eco toxicity:*

hour median tolerance for fish (Gambelia affine) of 2320 ppm; a 96 hour median tolerance for water fleas (Daphnia magna) of 247 ppm; a 96 hour median

tolerance for snail eggs (Lymnea) of 632 ppm; and a 96 hour median tolerance for

Amphipoda of 160 ppm. This product contains approximately 37.5% sodium

silicate.

Environmental Fate: This material is not persistent in aquatic systems, but its high pH when undiluted

or un-neutralized 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. This material does not bioaccumulate except in species that use silica as a structural material such as

diatoms and siliceous sponges. Where abnormally low natural silica

concentrations exist (less than 0.1 ppm), dissolved silica may be a limiting nutrient for diatoms and a few other aquatic algal species. However, the addition of excess dissolved silica over the limiting concentration will not stimulate the growth of diatom populations; their growth rate is independent of silica concentration once the limiting concentration is exceeded. Neither silica nor sodium will appreciably

bioconcentrate up the foodchain.

Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.



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13. DISPOSAL CONSIDERATIONS

Disposal Method: Dispose in accordance with federal, provincial and local regulations.

14. TRANSPORTINFORMATION

TDG UN Status: This material is not regulated hazardous material for transportation.

15. REGULATORY INFORMATION

WHMIS (Canada): Class D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the

 $information\ required\ by\ the\ {\it Controlled\ Products\ Regulations}.$

DSL (Canada): All components of this formulation are listed on the CEPA-DSL

CERCLA (US): No CERCLA Reportable Quantity has been established for this material. SARA TITLE III (US): Not an Extremely Hazardous Substance under §302. Not a Toxic

Not an Extremely Hazardous Substance under §302. Not a Toxic Chemical under §313. Hazard Categories under §§311/312: Acute

TSCA (US): All ingredients of this material are listed on the TSCA inventory.

FDA:

All ingredients of this material are listed on the TSCA inventory.

The use of sodium silicate is authorized by FDA as a boiler water a

The use of sodium silicate is authorized by FDA as a boiler water additive for the production of steam that will contact food pursuant to 21 CFR §173.310; as a component of zinc-silicon dioxide matrix coatings on food contact surfaces pursuant to 21 CFR §175.390(c); as a GRAS substance when migrating from cotton fabric used in dry food packaging pursuant to 21 CFR §182.70; and as a GRAS substance when migrating to food from paper and paperboard products pursuant to 21 CFR §182.90.

16. OTHER INFORMATION

Prepared by: Compliance Dept.

Supersedes revision of: n/a

THE INFORMATION ON THIS SAFETY DATA SHEET IS BELIEVED TO BE ACCURATE AND IT IS THE BEST INFORMATION AVAILABLE TO NATIONAL SILICATES THIS DOCUMENT IS INTENDED ONLY AS A GUIDE TO THE APPROPRIATE PRECAUTIONS FOR HANDLING A CHEMICAL BY A PERSON TRAINED IN CHEMICAL HANDLING. NATIONAL SILICATES MAKES NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED WITH RESPECT TO SUCH INFORMATION OR THE PRODUCT TO WHICH IT RELATES, AND WE ASSUME NO LIABILITY RESULTING FROM THE USE OR HANDLING OF THE PRODUCT TO WHICH THIS SAFETY DATA SHEET RELATES. USERS AND HANDLERS OF THIS PRODUCT SHOULD MAKE THEIR OWN INVESTIGATIONS TO DETERMINE THE SUITABILITY OF THE INFORMATION PROVIDED HEREINFORTHEIR OWN PURPOSES.

