

MSDS MATERIAL SAFETY DATA SHEET

Trade Name: Date Prepared:

Intercept

December 18, 2020

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name:	Intercept
Product weights:	Five (5) gallon pail = 50 pounds
Product description:	A 3.22 weight ratio sodium silicate, 37.5% solution in water
Product Use:	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	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 AID MEASURES

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: Eye protection:	Wear body-covering protective clothing and gloves. 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/cm ³ (20°C), 41° Bé, 11.62lbs/gal
Solubility in water:	Miscible.
Flash point:	Not applicable
Auto-ignition temperature.	Not applicable
Vapor pressure:	Notapplicable
Vapor density:	Notapplicable
Evaporation rate:	Notapplicable
Boiling point:	Notapplicable
Freezing point:	Notapplicable
Coefficient of water	**
/oil distribution:	Notapplicable

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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<u>11. TOXICOLOGICAL INFORMATION</u>

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 LD ₅₀ 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

Eco toxicity:	The following data is reported for sodium silicates on a 100% solidsbasis: A 96- 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 food chain.
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. TRANSPORT INFORMATION

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 <i>Controlled Products Regulations</i> .	
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	
	Chemical under §313. Hazard Categories under §§311/312: Acute	
TSCA (US):	All ingredients of this material are listed on the TSCA inventory.	
FDA:	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.	
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<u>16. OTHER INFORMATION</u>

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 MAKESNOWARRANTY 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 HEREINFOR THEIROWN PURPOSES.

