



1. Identification

TUFCHEM [™] SILICATE SOLUTION
None.
Not available.
None known.
ier/Distributor information
ErgonArmor, a division of Ergon Asphalt & Emulsions, Inc.
2829 Lakeland Drive
Jackson, MS 39232
USA
1-800-222-7122
1-877-982-7667
www.ergonarmor.com
sds@ergon.com
CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887
8:00 a.m. to 5:00 p.m.

2. Hazard(s) identification

Not classified.	
Acute toxicity, oral	Category 4
Not classified.	
Not classified.	
	Acute toxicity, oral Not classified.

Label elements



Signal word	Warning
Hazard statement	Harmful if swallowed.
Precautionary statement	
Prevention	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Response	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		7732-18-5	60 - 75
Potassium silicate		1312-76-1	25 - 40

4. First-aid measures

Inhalation	Move to fresh air. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration or give oxygen by trained personnel. Get medical attention.
Skin contact	Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Rinse mouth. Immediately give plenty of water (if possible charcoal slurry). If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Never give anything by mouth to a victim who is unconscious or is having convulsions. Call a physician or poison control center immediately.
Most important symptoms/effects, acute and delayed	May cause respiratory irritation. May cause skin irritation. Severe eye irritation. May cause gastrointestinal discomfort.

5. Fire-fighting measures

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	Not available.
Specific hazards arising from the chemical	Not applicable.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire fighting equipment/instructions	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Keep out of low areas. Do not touch or walk through spilled material. Particular danger of slipping on leaked/spilled product.
Methods and materials for containment and cleaning up	Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. Do not allow the spilled product to enter public drainage system or open water courses. Prevent product from entering drains. Collect spillage.
	Never return spills in original containers for re-use.

Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling	Do not get in eyes, on skin, on clothing. Avoid breathing mist or vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Store in a cool place. Keep containers tightly closed. Keep from freezing (freeze point below 32 $^{\circ}$ F/0 $^{\circ}$ C). Store in a closed container away from incompatible materials.

8. Exposure controls/personal protection

Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	No exposure standards allocated.
Appropriate engineering controls	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Individual protection measure Eye/face protection	s, such as personal protective equipment Chemical goggles are recommended.
Skin protection Hand protection	Wear protective gloves. Rubber gloves are recommended.
Other	Wear suitable protective clothing.

Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using, do not eat, drink or smoke.

9. Physical and chemical properties

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Appearance	Clear.
Physical state	Liquid.
Form	Liquid.
Color	Colorless.
Odor	Odorless.
Odor threshold	Not available.
рН	11 - 12
Melting point/freezing point	32 °F (0 °C)
Initial boiling point and boiling range	212 °F (100 °C) at 760 mm Hg
Flash point	Not available.
Evaporation rate	< 1
Flammability (solid, gas)	Not available.
Upper/lower flammability or e	explosive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	1.26 - 1.39

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Extremes in temperature.
Incompatible materials	Strong acids.
Hazardous decomposition products	No dangerous reaction known under conditions of normal use.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.

SymponsMay cause respiratory irritation. Direct contact with eyes may cause temporary initiation. Skin physical, chemical and characteristicsInfermation on toxicologicalHarmfull isvallowed.Skin corrosion/irritationNot available.Serious eye damage/eyeNot available.Serious eye damage/eyenNot available.Respiratory or skin sensitizationNot available.Respiratory or skin sensitizationNot available.Skin corrosion/irritationNot available.Skin sensitizationNot available to indicate product or any components present at greater than 0.1% are instage or genotoxic.Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are instage or genotoxic.Acce hoxicityNo data available to indicate product or any components present at greater than 0.1% are instage or genotoxic.Acce hoxicityNo data available to indicate product or any components present at greater than 0.1% are instage or genotoxic.Acce hoxicityNo data available to indicate product or any components present at greater than 0.1% are instage or genotoxic.Not isted.No data available.Specific target organ toxicityNot available.Specific target organ toxicityN	Ingestion	Harmful if swallowed.
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IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not available. Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory informati JS federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Haz	ard Communication Standar
	29 CFR 1910.1200.	
Toxic Substances Control A	ct (TSCA)	
TSCA Section 12(b) Exp	port Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	nce List (40 CFR 302.4)	
Not listed.		
SARA 304 Emergency relea	se notification	
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uperfund Amendments and Ro SARA 302 Extremely hazar	eauthorization Act of 1986 (SARA) dous substance	
Not listed.		
SARA 311/312 Hazardous chemical	Yes	
Classified hazard categories	Acute toxicity (any route of exposure)	
SARA 313 (TRI reporting) Not regulated.		
ther federal regulations		
-	112 Hazardous Air Pollutants (HAPs) List	
Not regulated.		
Clean Air Act (CAA) Section	112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
S state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (is not known to contain any chemicals currently listed as carcinogen	
nternational Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Ye
Canada	Domestic Substances List (DSL)	Ye
Canada	Non-Domestic Substances List (NDSL)	١
China	Inventory of Existing Chemical Substances in China (IECSC)	Ye
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yi
Europe	European List of Notified Chemical Substances (ELINCS)	Ν
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Y
Korea	Existing Chemicals List (ECL)	Y
New Zealand	New Zealand Inventory	Y
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Y
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Y
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Y
	ents of this product comply with the inventory requirements administered by the components of the product are not listed or exempt from listing on the inventor	

16. Other information, including date of preparation or last revision

Issue date	09-16-2022
Version #	01
Further information	$\ensuremath{HMIS}\xspace^{\ensuremath{R}}$ is a registered trade and service mark of the NPCA.

NFPA ratings	Health: 2 Flammability: 0 Instability: 0
References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.