HALLIBURTON

MATERIAL SAFETY DATA SHEET

Product Trade Name: SUPER FLUSH 101

Revision Date: 23-Sep-2013 **Revision Number: 10**

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

SUPER FLUSH 101 **Product Trade Name:**

Synonyms: None Silicate **Chemical Family:** Internal ID Code HM001828

Product Use

Application: Resin

Manufacturer's Name and Contact Details

Name and Address Halliburton Energy Services

645 - 7th Ave SW Suite 2200

Calgary, AB T2P 4G8 Canada

Emergency Telephone Number (281) 575-5000

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

2. HAZARD(S) IDENTIFICATION

WHIMIS Classification

WHMIS Hazard Class E Corrosive Material

WHMIS Symbol(s)



Summary of hazards of the product

May cause eye and skin burns. May cause respiratory irritation. May be harmful if **Hazard Overview**

swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS					
Substances	CAS Number	PERCENT (w/w)	HMIRA Registry Number	Filing Date	
Sodium silicate	1344-09-8	10 - 30%	Not applicable	Not applicable	

4. FIRST AID MEASURES

Description of first aid measures

Inhalation If inhaled, remove from area to fresh air. Get medical attention if respiratory

irritation develops or if breathing becomes difficult.

Eyes In case of contact, or suspected contact, immediately flush eyes with plenty of

water for at least 15 minutes and get medical attention immediately after flushing. In case of contact, immediately flush skin with plenty of soap and water for at least

15 minutes. Get medical attention. Remove contaminated clothing and launder

before reuse.

Ingestion Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek

medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

May cause eye and skin burns. May cause respiratory irritation. May be harmful if swallowed.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

None known.

Skin

Special hazards arising from the substance or mixture

Special Exposure Hazards

Decomposition in fire may produce toxic gases.

Advice for firefighters

Special Protective Equipment for Fire-Fighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

Hazardous combustion products

Toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency producedures

Protective Equipment

Use appropriate protective equipment.

Environmental Precautionary Measures

Prevent from entering sewers, waterways, or low areas.

Procedure for Cleaning / Absorption

Isolate spill and stop leak where safe. Contain spill with sand or other inert materials. Neutralize to pH of 6-8. Scoop up and remove. Do NOT spread spilled product with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin, or clothing. Avoid breathing vapors. Wash hands after use. Launder contaminated clothing before reuse.

Conditions for safe storage and Incompatible materials for storage

Store away from acids. Store in a cool well ventilated area. Keep container closed when not in use.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Exposure Limits

Substances	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA
Sodium silicate	1344-09-8	Not applicable	Not applicable

Appropriate engineering controls

Engineering Controls

Use in a well ventilated area. Local exhaust ventilation should be used in areas

without good cross ventilation.

Personal Protective Equipment (PPE)

Respiratory Protection Dust/mist respirator. (N95, P2/P3)

Hand Protection Impervious rubber gloves.

Skin Protection Full protective chemical resistant clothing.

Eye Protection Chemical goggles; also wear a face shield if splashing hazard exists. **Other Precautions** Eyewash fountains and safety showers must be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State: Liquid Color: Clear colorless

Odor: Slightly soapy Odor Threshold: No information available

Property Values
Remarks/ - Method

pH: 11.3

pH Concentration of Solution:

No information available.

Freezing Point/Range -1 °C

Melting Point/Range No information available

Boiling Point/Range (C): 100 °C

Flash Point/Range (C):

Flash Point Method:

Autoignition Temperature (C):

Flammability Limits in Air - Lower (%):

Flammability Limits in Air - Upper (%):

No information available.

No information available.

Vapor Pressure @ 20 C (mmHg): 156

Vapor Density (Air=1): No information available.

Specific Gravity @ 20 C (Water=1): 1.2
Solubility in Water (g/100ml): Soluble

Solubility in other solvents

Partition Coefficient/n-Octanol/Water:

Decomposition Temperature (C):

Viscosity

No information available.

No information available.

No information available.

No information available in information available.

No information available.

Explosive PropertiesNo information availableOxidizing PropertiesNo information available

Other Information

Molecular Weight (g/mole):No information available.VOC Content (%)No information available

10. STABILITY AND REACTIVITY

Conditions of Reactivity

Conditions to Avoid None anticipated Hazardous Polymerization: Will Not Occur

Chemical Stability

Stable

Sensitivity to Static Discharge

Not available

Sensitivity to Mechanical Impact

Not available

Incompatible materials

Strong acids. Amphoteric metals such as aluminum, magnesium, lead, tin, or zinc.

Hazardous Decomposition Products

Toxic fumes.

11. TOXICOLOGICAL INFORMATION

Routes of entry

Eye or skin contact, inhalation.

Information on Toxicological Effects

Acute effects from exposure

Inhalation Causes severe respiratory irritation.

Eye ContactCauses severe eye irritation May cause eye burns.Skin ContactCauses severe skin irritation. May cause skin burns.IngestionCauses burns of the mouth, throat and stomach.

Chronic effects from exposure

Chronic Effects/Carcinogenicity No data available to indicate product or components present at greater than 1% are chronic

health hazards.

Irritancy of product

Irritation Corrosive to eyes

Corrosive to skin

Sensitization of product

Sensitization Not confirmed to cause skin or respiratory sensitization.

Mutagenicity

Mutagenic Effects Contains no ingredient listed as a mutagen

Carcinogenicity

Carcinogenic Effects No ingredient of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity

Reproductive Toxicity

This product does not contain any known or suspected reproductive hazards

Teratogenicity/embryotoxicity

Teratogenic Not a teratogen or embroytoxin.

Toxicologically synergistic material Not available

Acute Toxicity

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Sodium silicate	1344-09-8	1153 mg/kg (Rat) 1100 mg/kg (Mouse)	4640 mg/kg (Rabbit)	No data available	

12. ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity Effects

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Sodium silicate	1344-09-8	No information available	No information available	No information available	No information available

Persistence and Degradability

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumlation potential

Does not bioaccumulate

Mobility in soil

No information available

Results of PBT and vPvB assessment

No information available.

Other adverse effects

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors

13. DISPOSAL CONSIDERATIONS

Disposal MethodDisposal should be made in accordance with federal, state, and local regulations.

Contaminated Packaging Follow all applicable national or local regulations.

14. TRANSPORT INFORMATION

Canadian TDG

UN Number:
UN Proper Shipping Name:
Not restricted.
Not restricted
Not applicable

IATA/ICAO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

IMDG/IMO

UN Number: Not restricted.
UN Proper Shipping Name: Not restricted
Transport Hazard Class(es): Not applicable

Special Precautions for User None

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. REGULATORY INFORMATION

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 Controlled Products Regulations.

Canadian Regulations

Canadian DSL Inventory

All components listed on inventory or are exempt.

WHMIS Hazard Class E Corrosive Material

WHMIS Symbol(s)



US Regulations
US TSCA Inventory

All components listed on inventory or are exempt.

16. OTHER INFORMATION

Preparation Information

Prepared By Chemical Compliance

Telephone: 1-580-251-4335

e-mail: fdunexchem@halliburton.com

Revision Date: 23-Sep-2013

Not applicable

Additional Information For additional information on the use of this product, contact your local Halliburton

representative.

For questions about the Safety Data Sheet for this or other Halliburton products,

contact Chemical Compliance at 1-580-251-4335.

Key or legend to abbreviations and acronyms

WHMIS: Workplace Hazardous Materials Information System

Key literature references and sources for data

www.ChemADVISOR.com/

Disclaimer Statement

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END OF MSDS