

Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name:	ProFlush DSS-1	
Chemical Family:	Blend	
Application:	Spacer surfactant for oil based muds	
Company Name:	ARC Products, INC	
Address:	4010 La Reunion Parkway	
	Suite 160	
	Dallas, TX 75212	
Telephone:	SDS and Product Information (7:00am – 4:00pm CST) Chemtrec North America	(214) 638-2468 (800) 424-9300

2. HAZARDS IDENTIFICATION

Classification:		
OSHA Regulatory Status	This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)	
Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	Serious eye damage/irritation Skin corrosion/irritation	Category 2 Category 2
Pictogram		
Signal word:	Warning	
Hazard statements:	H315: Causes skin irritation H319: Causes serious eye irritation	
Precautionary statements:	Prevention P264: Wash face, hands and any exposed skin thoroughly after handling P280: Wear protective gloves/protective clothing/eye protection/face protection	

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	Response P308: If exposed or concerned: Get medical advice/attention P302+P352 - IF ON SKIN: Wash with plenty of soap and water P332+P313: If skin irritation occurs: Get medical advice/attention P305+351+P338 - IF IN EYES: Rinse cautiously with water for 20 minutes Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364: Take off contaminated clothing and wash it before reuse
	Storage P402 - Store in a dry place.
	Disposal P501 - Dispose of content/container in accordance with local regulation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Percent wt%
Alcohol ethoxylate	Proprietary	5 - 30
Alkylbenzene sulfonate	Proprietary	5 - 30

If CAS number is "Proprietary" the specific chemical identity and percentage of composition has been withheld as a trade secret.

*The exact percentage (concentration) of composition has been withheld as a trade secret. While some substances are claimed as trade secret in accordance with the provision of OSHA 29 CFR 1910.1200(i), all known hazards are clearly communicated within this document.

4. FIRST AID MEASURES

Inhalation:	Remove from area to fresh air. If breathing is irregular or stopped administer artificial respiration. If breathing is difficult give oxygen. Get medical attention.
Skin:	Wash affected areas with plenty of water and soap if available, for 15 minutes. Remove all contaminated clothes and shoes. Wash contaminated clothing before re-use. If itching and redness persist, seek medical attention.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. After the initial one to two minutes of flushing check for and remove contact lenses if present. Get medical attention.
Ingestion:	Do not induce vomiting. If vomiting occurs spontaneously, keep airway clear. Never give anything by mouth to an unconscious person. If a large amount is swallowed, get medical attention
Medical Conditions:	Existing skin, eye and lung conditions.
Notes to Physician:	Treat symptomatically

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5. FIRE FIGHTING MEASURES

Flashpoint (° F)	>93C
Products of Combustion:	COx, SOx,
Flammability: Lower %	Not determined
Flammability: Upper %	Not determined
Fire Extinguishing Media:	Water spray, foam, dry chemical, carbon dioxide (CO ₂)
Special Procedures:	Use water spray to cool drums exposed to fire.
Special Protective Equipment for Fire Fighters:	Firefighters should use self-contained breathing apparatus to avoid exposure to smoke and vapor.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:	Wear appropriate protective equipment to protect from dust that might be generated by the product.
Environmental Precaution:	Do not flush into surface water or sanitary sewer system.
Methods for Clean-up:	Sweep or vacuum up spillage and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Engineering controls:	Ensure that good ventilation and eye washes/safety showers are in the immediate work area.
Precautionary statements:	CAUTION! Product may cause skin, eye and respiratory tract irritation. Avoid contact with eyes, skin and clothing. Avoid generating or breathing dust. Use only with adequate ventilation. Wear chemical splash goggles, gloves and protective clothing while handling. Wash thoroughly after handling. For industrial use only. Avoid dust generation.
Storage Information:	Store in a cool, dry place to prevent product from caking.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls:	Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Eyewash and safety shower accessible from work area.
Respiratory Protection:	Use approved NIOSH respiratory protection if TLV is exceeded or over exposure is likely.
Hand Protection:	Wear chemical resistant gloves.
Skin Protection:	Full protective clothing, chemical resistant boots and gloves.
Eye Protection:	Wear safety glasses with side shields, goggles or face shield.

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Exposure Limits:	No limits established for the formulated product		
	Components	Value type (Form of exposure)	Permissible concentration
	Kaolin clay	ACGIH TLV	2mg/m ³ (Respirable dust)
	CAS No. 1332-58-7	OSHA PEL	15mg/m ³ (Total dust)
	Silicic Acid	ACGIH TLV	1mg/m ³
	Aluminum sodium salt	NIOSH REL	2mg/m ³
	CAS No. 1344-00-9		
Other Protective Measures:	Eyewash fountains and safety showers must be easily accessible.		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder
Color:	Light yellow
Odor:	Characteristic
pH:	9.0 – 12.0 (5%w/w in DI water)
Specific Gravity @ 20 ° C, g/ml	1.55 – 1.57
Tamped density @ 20 ° C (lbs/ft³):	
Boiling Point:	Not applicable
Freezing Point, ° C / ° F	Not applicable
Vapor Pressure @ 21 ° C (mm Hg)	
Percent Volatiles:	
Evaporation Rate (Butyl Acetate = 1)	
Solubility in Water:	Dispersable
Solubility in Solvents:	

10. STABILITY AND REACTIVITY

Stability Data:	Stable under normal conditions
Hazardous Polymerization:	Will not occur under normal conditions
Conditions to Avoid:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatibility (Materials to Avoid):	Strong oxidizing agents
Hazardous Decomposition:	CO _x , SO _x ,

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Additional Guidelines:	None
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11. TOXICOLOGICAL INFORMATION

Principal Route of Exposure:	Skin, eyes and respiratory tract
Inhalation:	Dust may cause irritation to the respiratory tract
Skin Contact:	Irritating to skin
Eye Contact:	Causes eye irritation
Ingestion:	Not determined on the formulated product
Toxicological Data	<u>Component</u> Silicic acid LD50, rat, oral: >5000mg/kg (OECD 401) Aluminum sodium salt LC50, rabbit, dermal: >5000 mg/kg CAS 1344-00-9 Alkylbenzene sulfonate LD50, rat, oral: >2000mg/kg CAS: Proprietary LD50, rabbit, dermal: >2000mg/kg Not determined on the formulated product
Chronic Effects:	Not determined on the formulated product
Other Toxic Effects to Humans:	Not determined on the formulated product
Toxicity to Animals:	Not determined on the formulated product
Oral Toxicity:	Not determined on the formulated product
Dermal Toxicity:	Not determined on the formulated product
Inhalation Toxicity:	Not determined on the formulated product
Primary Irritation Effect:	Not determined on the formulated product
Carcinogenicity:	This product does not contain known or suspected carcinogens.

12. ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):	Not determined on the formulated product
Toxicity of the Products of Biodegradation:	Not determined on the formulated product
Bioaccumulation:	Not determined on the formulated product
Ecotoxicological Information	Not determined on the formulated product

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Acute Fish Toxicity:	<u>Component</u> Not determined on the formulated product
Acute Crustaceans Toxicity:	<u>Component</u> Silicic acid LC50, Brachydanio rerio, 96h: >10,000mg/l Aluminum sodium salt CAS 1344-00-9 Not determined on the formulated product
Acute Algae Toxicity:	<u>Component</u> Not determined on the formulated product
Chemical Fate Information:	Not determined on the formulated product
Other Information:	Not determined on the formulated product

13. DISPOSAL CONSIDERATIONS

Waste Code:	
Disposal Method:	Observe all applicable federal, state, and local regulations.
Empty containers:	Empty drums should be completely drained, triple rinsed, properly bunged and promptly returned to a drum conditioner or properly disposed.

14. TRANSPORT INFORMATION

DOT	Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Alkylbenzene sulfonate), MARINE POLLUTANT UN Code: UN3082 Hazard Class: 9 Packaging group: III
IMDG	
ICAO/IATA	
Labels:	N/A

15. REGULATORY INFORMATION

OSHA'S HAZARD COMMUNICATION RULE, 219 CFR 1910.1200:	
<u>US FEDERAL REGULATIONS</u>	
US TSCA Inventory Listing	All components of this product are registered in the TSCA inventory.

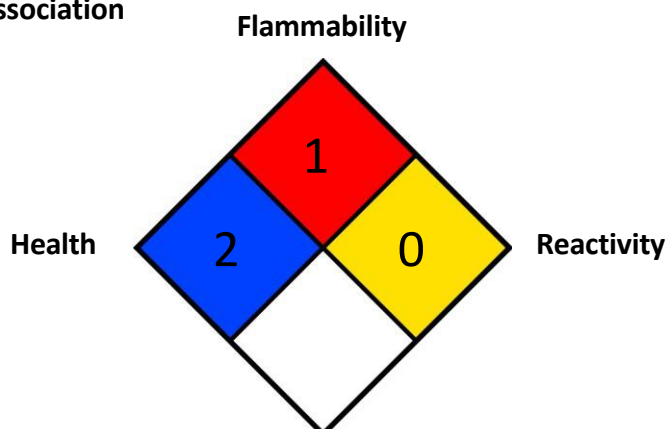
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EPA SARA Title III: Extremely Hazardous Substances:	Substance: NA CAS: TPA (pounds): EHS-RQ (pounds):
EPA SARA (302) Chemicals:	This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Compensation and Liability Act (CERCLA)(40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA)(40 CFR 355).
EPA SARA (311/312) Classification	This product is classified as a SARA HEALTH HAZARD.
EPA SARA (313) Chemicals:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimus) reporting levels established by SARA Title III, Section 313
EPA CERCLA Hazardous Substances (40 CFR 302):	Substance: CAS: RQ (pounds):
EPA RCRA Hazardous Waste Classification:	NA
<u>INTERNATIONAL REGULATIONS:</u>	
European Union:	Xn: N: R22: R41: R50:
<u>STATE REGULATIONS</u>	
California Prop. 65	<u>Components:</u> 1,4-dioxane (CAS 123-91-1) Carcinogen Acetaldehyde (CAS 75-07-0) Carcinogen Ethylene oxide (CAS 75-21-8) Carcinogen

16. OTHER INFORMATION		
HMIS	HEALTH	2
	FLAMMABILITY	1
	REACTIVITY	0
	PERSONAL PROTECTION	

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National Fire Protection Association



To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Signed:	Mark Alexander
Date:	April 25, 2024
Revised:	Revision 1 April 25, 2025