

Safety Data Sheet

1. IDENTIFICATION:

Product Name: DETERGENT ADDITIVE

Synonyms: DOWFAX 2A1

CAS Number: Mixture

Catalog Numbers: 10223 10224 W2T12260 U29142 W2T12261 UAX29142

Product Use: Analytical / Laboratory Reagent

Manufacturer: HF Scientific, Inc

Address: 3170 Metro Parkway Fort Myers, FL 33916

General Information: 888-203-7248


Transportation Emergency Number: CHEMTREC® 24 hr US 800-424-9300
CHEMTREC® 24 hr International 703-527-3887

2. HAZARDS IDENTIFICATION

GHS Classification

| Health | Environmental | Physical |
|--|------------------------------|---------------|
| Acute toxicity: Category 4 Skin irritation: Category 3 Eye irritation: Category 2A Specific target organ toxicity following single exposure: Category 3 | Aquatic toxicity: Category 3 | Flammable: No |

GHS Label

| Pictogram: | Signal Word: |
|--|--|
|  | WARNING |
| Hazard Statements: | Precautionary Statements |
| Harmful if swallowed Harmful in contact with skin Harmful if inhaled Causes mild skin irritation Causes serious eye irritation May cause respiratory tract irritation | IF SWALLOWED seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. IF ON SKIN remove contaminated clothing and wash skin with plenty of water. IF INHALED move person to fresh air. If effects occur, consult a physician. Keep person warm and quiet. IF IN EYES wash immediately and continuously with flowing water for at least 30 minutes. Use fingers to assure that eyelids are separated and the eye is being irrigated. Remove contact lenses after the first 5 minutes and continue washing. Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international regulation. |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | Cas Number | Weight % |
|--|-------------|----------|
| Water | 7732-18-5 | 52% |
| Sodium benzeneoxybispropylenesulfonate | 119345-04-9 | 46% |
| Sulfuric acid disodium salt | 7757-82-6 | 1% |

4. FIRST AID MEASURES

Eye Contact: Wash immediately and continuously with flowing water for at least 30 minutes. Use fingers to assure that eyelids are separated and the eye is being irrigated. Remove contact lenses after the first 5 minutes and continue washing. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Obtain prompt medical consultation, preferably from an ophthalmologist.

Skin Contact: Remove contaminated clothing and wash skin with plenty of water.

Inhalation: Move person to fresh air; if effects occur, consult a physician. Keep person warm and quiet.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Alcohol foam, water fog, carbon dioxide, dry chemical.

Fire Fighting Procedures: Water or foam may cause frothing which can be violent and possibly endanger the life of the firefighter. Water may be used to keep fire exposed containers cool until fire is out. Wear self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.

Unusual Fire and Exposure Hazards: This material will not burn until the water has evaporated. Residue can burn.

Combustion Products: Under fire conditions some components of this product may decompose. The smoke may contain unidentified toxic and/or irritating compounds. Combustion products may include and are not limited to: Sulfur oxides. Carbon monoxide. Carbon dioxide.

NFPA Classification HEALTH: 2 **FLAMMABLE:** 1 **REACTIVITY:** 0

6. ACCIDENTAL RELEASE MEASURES

For small spills, absorb with material such as sawdust, vermiculite, floor absorbent or other absorbent material. For large spills, prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

7. HANDLING AND STORAGE

Handling: Do not get in eyes. Wash thoroughly after handling.

Storage: Product may become solid at temperatures below 32°F. Since emptied containers retain product residues, all hazard precautions given in the data sheet must be observed. Keep container closed and use with adequate ventilation. Avoid contact with water. This material is slippery when wet. Isolate from incompatibles substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: N/A

Engineering Controls: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Personal Protective Equipment:

Eyes: Use chemical safety. Maintain eye wash fountain and quick-drench facilities in work area.

Skin: Wear resistant gloves and impervious clothing and footwear.

Respiratory: For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Flashpoint: 212°F (Close cup)

Autoignition Temperature: N/A

Boiling Point: 212°F

Melting Point: 32°F

Vapor Pressure: < 0.01 mmHg @ 20°C (Calculated)

Vapor Density: N/A

% Solubility in Water: Completely miscible with water

Pour Point: N/A

Molecular Formula: Mixture

Odor / Appearance: yellow, odorless to mild odor liquid

Lower Flammability Limit: N/A

Upper Flammability Limit: N/A

Specific Gravity: 1.12 – 1.16 (Calculated)

% Volatile: N/A

Evaporation Rate (Water=1): 0.97

Viscosity: Kinematic viscosity = 131.8 cSt @ 25°C (Calculated)

Octanol / Water Partition Coefficient: N/A

pH: 8 – 10.5 (Calculated)

Molecular Weight: Mixture

10. STABILITY AND REACTIVITY

Stability / Incompatibility: Stable under ordinary conditions of use and storage. Incompatible with strong acids. Avoid elevated temperatures.

Hazardous Reactions / Decomposition Products: may form carbon dioxide and carbon monoxide, sulfur compounds. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure: Cause severe eye burns. Irritation of skin, gastrointestinal and respiratory tract.

Acute Effects: Cause severe eye burns. Irritation of skin, gastrointestinal and respiratory tract.

Eye Contact: Exposure can cause severe eye irritation, including blurred vision, and eye damage. Eye damage may include moderate corneal injury, permanent impairment of vision or even blindness.

Skin Contact: Exposure can cause skin irritation. Symptoms may include redness, burning, drying and cracking, skin burns and skin damage.

Inhalation: Excessive exposure may cause irritation to upper respiratory tract.

Ingestion: Irritation of the gastrointestinal tract.

Target Organs Effects: N/A

Chronic Effects: N/A

Medical Conditions Aggravated by Exposure: N/A

Acute Toxicity Values: N/A

12. ECOLOGICAL INFORMATION

Environmental Fate: Material is inherently biodegradable (reaches > 20% biodegradation in OECD test(s) for inherent biodegradability).
OECD 302B Test Results: < 70% biodegradation in a 28 day exposure time.
Environmental Toxicity: Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in most sensitive species tested).
LC50, rainbow trout (*Oncorhynchus mykiss*), static, 96 h: 7.66 mg/l
LC50, fathead minnow (*Pimephales promelas*), flow-through, 96 h: 3.85 mg/l
LC50, water flea *Daphnia magna*, 48 h: 3.6 mg/l

13. DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations.

14. TRANSPORT INFORMATION

US DOT (United States Department of Transportation):

Proper Name: Environmentally Hazardous Substance, Liquid, N.O.S.
Hazard Class: 9
Identification Number: UN3082
Packing Group: III
Label code: 9
Special Provisions: 8, 146, 335, IB3, T4, TP1, TP29

15. REGULATORY INFORMATION

CERCLA: No
SARA/Title III: No
TSCA Inventory: No
Cal. Proposition 65: NO
WHMIS: No
DSL: Yes
NDSL: No

16. OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. ALL PRODUCTS ARE OFFERED IN ACCORDANCE WITH THE MANUFACTURER'S CURRENT PRODUCTION SPECIFICATIONS AND ARE INTENDED SOLELY FOR USE IN ANALYTICAL TESTING. THE MANUFACTURER SHALL IN NO EVENT BE LIABLE FOR ANY INJURY, LOSS OR DAMAGE RESULTING FROM THE HANDLING, USE OR MISUSE OF THESE PRODUCTS.

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