

Safety Data Sheet

DSC FOAMING AGENT

SDS Revision Date:

06/03/2015



1. Identification

1.1. Product identifier

Product Identity DSC Foaming Agent

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Deep South Chemical, Inc.
229 Millstone Rd.
Broussard, LA 70518

Emergency

CHEMTREC (USA) (800) 424-9300

Customer Service: Deep South Chemical, Inc. (337) 837-9931

2. Hazard(s) identification

2.1. Classification of the substance or mixture

| | |
|-------------------------|--------------------------------|
| Combustible Liquid;H227 | Combustible Liquid. |
| Skin Irrit. 2;H315 | Causes skin irritation. |
| Eye Irrit. 2;H319 | Causes serious eye irritation. |

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



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H227 Combustible liquid.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P264 Wash thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

[Response]:

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P321 Specific treatment (see information on this label).

P332+313 If skin irritation occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

[Storage]:

P403+235 Store in a well ventilated place. Keep cool.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

| Ingredient/Chemical Designations | Weight % | GHS Classification | Notes |
|---|----------|--|--------|
| Ethylene glycol monobutyl ether CAS Number: 0000111-76-2 | 10 - 25 | Acute Tox. 4;H332 Acute Tox. 4;H312 Acute Tox. 4;H302 Eye Irrit. 2;H319 Skin Irrit. 2;H315 | [1][2] |
| Cocamidopropyl Hydroxysultaine CAS Number: 0068139-30-0 | 1.0 - 10 | Eye Irrit. 2;H319 | [1] |
| Glycerol CAS Number: 0000056-81-5 | 1.0 - 10 | Not Classified | [1][2] |
| Alcohols, C10-16, ethoxylated, sulfates, sodium salts CAS Number: 0068585-34-2 | 1.0 - 10 | Skin Irrit. 2;H315 Eye Irrit. 2;H319 | [1] |

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been

withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

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4. First aid measures

4.1. Description of first aid measures

| | |
|-------------------|---|
| General | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Inhalation | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth. |
| Eyes | Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention. |
| Skin | Wash thoroughly with large amounts of water for fifteen minutes. Contact with hot acid will cause chemical burns. Remove contaminated clothing. Seek medical attention. |
| Ingestion | If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Overview | <p>Emergency Overview: May cause irritation to the eyes, skin, and respiratory system. Avoid contact with skin or eyes, may cause chemical burns. Do not swallow. Breathing of vapors may cause headache, dizziness, nausea and incoordination.</p> <p>Eye Contact: This product may cause eye irritation, reddening and possible chemical burns. If not removed immediately may result in injury to eyes. The toxic effects are exerted on the central nervous system especially the optic nerve.</p> <p>Skin Contact: May be fatal if absorbed through the skin. Direct contact with the skin may cause allergic reactions in sensitive individuals. Prolonged contact will result in de-oiling of the skin and inflammation and rashes.</p> <p>Ingestion: This product may be harmful or fatal if swallowed. Material will cause upset stomach and sickness. May cause headaches, nausea, dizziness and other symptoms of central nervous system depression. Ingestion may cause liver and kidney damage and blood disorders. This product may cause blindness if swallowed.</p> <p>Inhalation: Breathing of vapors may cause sickness, sneezing or irritation to the respiratory tract. Vapors or mists will cause irritation of mucous membranes. Inhalation may cause headache, dizziness and blurred vision. See section 2 for further details.</p> |
| Eyes | Causes serious eye irritation. |
| Skin | Causes skin irritation. |

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5. Fire-fighting measures

5.1. Extinguishing media

Material will not burn unless preheated. If not burning, keep cool with water spray. If burning use water fog, foam, dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon, nitrogen and sulfur.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

5.3. Advice for fire-fighters

Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coat, gloves and rubber boots), including a positive pressure NIOSH approved self-contained breathing apparatus. Cool exposed containers with water.

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Recover all usable material. Soak up balance with sand or dirt. Dispose of media according to regulations. Do not allow material to enter public drainage systems. Shut off ignition sources. No flares, smoking or flames in hazard area. Water spray may reduce vapor but may not prevent ignition in closed areas. Always wear proper personal protection when addressing spill or leak.

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7. Handling and storage

7.1. Precautions for safe handling

Store in accordance with the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids.

See section 2 for further details. - [Prevention]:

7.2. Conditions for safe storage, including any incompatibilities

Use with adequate ventilation.

Avoid breathing vapors.

Avoid breathing spray mist.

Harmful if swallowed.

For industrial use only.

Avoid contact with skin and eyes. After handling this product, wash hands before eating, drinking, or smoking. If needed, take emergency first aid action shown in this Material Safety Data Sheet.

Remove and wash contaminated clothing.

Store in iron, stainless steel or acid resistant fiberglass reinforced plastic tanks. Contact tank manufacturers for recommendations.

Store in a cool dry place. Avoid open flames. Avoid contact with strong oxidizers. Keep containers tightly closed. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, electric sparks, static electricity or other sources of ignition.

Store in a cool dry area, away from heat, sparks and open flame. Keep containers sealed when not in use. Store out of direct sunlight.

Incompatible materials: May react with oxidizing agents.

See section 2 for further details. - [Storage]:

7.3. Specific end use(s)

No data available.

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8. Exposure controls and personal protection

8.1. Control parameters

Exposure

| CAS No. | Ingredient | Source | Value |
|--------------|---|----------|---|
| 0000056-81-5 | Glycerol | OSHA | TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp) |
| | | ACGIH | TWA: 3 mg/m3 (respirable) 10 mg/m3 (mist) |
| | | NIOSH | No established RELs |
| | | Supplier | No Established Limit |
| 0000111-76-2 | Ethylene glycol monobutyl ether | OSHA | TWA 50 ppm (240 mg/m3) [skin] |
| | | ACGIH | TWA: 20 ppm Revised 2003, |
| | | NIOSH | TWA 5 ppm (24 mg/m3) [skin] |
| | | Supplier | No Established Limit |
| 0068139-30-0 | Cocamidopropyl Hydroxysultaine | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| | | Supplier | No Established Limit |
| 0068585-34-2 | Alcohols, C10-16, ethoxylated, sulfates, sodium salts | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |
| | | Supplier | No Established Limit |

Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|--------------|---|--------|---|
| 0000056-81-5 | Glycerol | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0000111-76-2 | Ethylene glycol monobutyl ether | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: Yes; Group 4: No; |
| 0068139-30-0 | Cocamidopropyl Hydroxysultaine | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |
| 0068585-34-2 | Alcohols, C10-16, ethoxylated, sulfates, sodium salts | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No; |

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8.2. Exposure controls

| | |
|-----------------------------|---|
| Respiratory | Avoid breathing vapors as they are irritating. A NOISH approved acid gas respirator should be used if vapors are unavoidable. |
| Eyes | Use goggles and face shield. |
| Skin | Use acid resistant gloves. |
| Engineering Controls | Mechanical ventilation recommended if personnel would be working in a confined space with open containers. |
| Other Work Practices | Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse. |

See section 2 for further details. - [Prevention]:

9. Physical and chemical properties

| | |
|--|--|
| Appearance | Clear Yellow Liquid |
| Odor | Organic |
| Odor threshold | Not determined |
| pH | Not Measured |
| Melting point / freezing point | -3 C |
| Initial boiling point and boiling range | 100C |
| Flash Point | 188F(86.66C) |
| Evaporation rate (Ether = 1) | Greater than Butyl Acetate. |
| Flammability (solid, gas) | Not Applicable |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not Measured Upper Explosive Limit: Not Measured |
| Vapor pressure (Pa) | Approx. 20mm Hg |
| Vapor Density | Greater than air. |
| Specific Gravity | 1.030-1.060 |
| Solubility in Water | Complete |
| Partition coefficient n-octanol/water (Log Kow) | Not Measured |
| Auto-ignition temperature | Not Measured |
| Decomposition temperature | Not Measured |
| Viscosity (cSt) | Not Measured |

9.2. Other information

No other relevant information.

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10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid Open Flames and Strong Oxidizers.

10.5. Incompatible materials

May react with oxidizing agents.

10.6. Hazardous decomposition products

Oxides of carbon, nitrogen and sulfur.

11. Toxicological information

Acute toxicity

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapor LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr | Inhalation Gas LC50, ppm |
|--|------------------------------------|------------------------------------|-----------------------------------|-------------------------------------|--------------------------|
| Ethylene glycol monobutyl ether - (111-76-2) | 1,414.00, Guinea Pig - Category: 4 | 1,200.00, Guinea Pig - Category: 4 | 173.00, Guinea Pig - Category: NA | No data available | No data available |
| Cocamidopropyl Hydroxysultaine - (68139-30-0) | No data available | No data available | No data available | No data available | No data available |
| Glycerol - (56-81-5) | 12,600.00, Rat - Category: NA | 10,000.00, Rabbit - Category: NA | No data available | No data available | No data available |
| Alcohols, C10-16, ethoxylated, sulfates, sodium salts - (68585-34-2) | No data available | No data available | No data available | No data available | No data available |

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

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| Classification | Category | Hazard Description |
|-------------------------------|----------|--------------------------------|
| Acute toxicity (oral) | --- | Not Applicable |
| Acute toxicity (dermal) | --- | Not Applicable |
| Acute toxicity (inhalation) | --- | Not Applicable |
| Skin corrosion/irritation | 2 | Causes skin irritation. |
| Serious eye damage/irritation | 2 | Causes serious eye irritation. |
| Respiratory sensitization | --- | Not Applicable |
| Skin sensitization | --- | Not Applicable |
| Germ cell mutagenicity | --- | Not Applicable |
| Carcinogenicity | --- | Not Applicable |
| Reproductive toxicity | --- | Not Applicable |
| STOT-single exposure | --- | Not Applicable |
| STOT-repeated exposure | --- | Not Applicable |
| Aspiration hazard | --- | Not Applicable |

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

| Ingredient | 96 hr LC50 fish, mg/l | 48 hr EC50 crustacea, mg/l | ErC50 algae, mg/l |
|--|--------------------------------|----------------------------|-------------------|
| Ethylene glycol monobutyl ether - (111-76-2) | 220.00, Fish (Piscis) | 1,000.00, Daphnia magna | Not Available |
| Cocamidopropyl Hydroxysultaine - (68139-30-0) | Not Available | Not Available | Not Available |
| Glycerol - (56-81-5) | 67,500.00, Oncorhynchus mykiss | 10,000.00, Daphnia magna | Not Available |
| Alcohols, C10-16, ethoxylated, sulfates, sodium salts - (68585-34-2) | Not Available | Not Available | Not Available |

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12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Dispose of in accordance with local, state and federal regulations. If discarded as supplied this product may meet definition of a RCRA ignitable waste D001. Wastes should be tested using methods described in 40 CFR part 261 to determine if it meets applicable definitions.

14. Transport information

| | DOT (Domestic Surface Transportation) | IMO / IMDG (Ocean Transportation) | ICAO/IATA |
|---|--|---|----------------------------------|
| 14.1. UN number | Not Applicable | Not Regulated | Not Regulated |
| 14.2. UN proper shipping name | Not Regulated | Not Regulated | Not Regulated |
| 14.3. Transport hazard class(es) | DOT Hazard Class: Not Applicable | IMDG: Not Applicable Sub Class: Not Applicable | Air Class: Not Applicable |
| 14.4. Packing group | Not Applicable | Not Applicable | Not Applicable |
| 14.5. Environmental hazards | | | |
| IMDG | Marine Pollutant: No | | |
| 14.6. Special precautions for user | No further information | | |

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15. Regulatory information

| | |
|---|---|
| Regulatory Overview | The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. |
| Toxic Substance Control Act (TSCA) | All components of this material are either listed or exempt from listing on the TSCA Inventory. |
| WHMIS Classification | B3 D2B |
| US EPA Tier II Hazards | Fire: Yes Sudden Release of Pressure: No Reactive: No Immediate (Acute): Yes Delayed (Chronic): No |

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Ethylene glycol monobutyl ether

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Ethylene glycol monobutyl ether

Glycerol

Pennsylvania RTK Substances (>1%):

Ethylene glycol monobutyl ether

Glycerol

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16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

This product's safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein, is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by this company in this respect. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions of safe use of this product. Such conditions should comply with all Federal regulations concerning the product. All materials in this product are produced in compliance with Public Law 94-469 (also known as the "Toxic Substances Control Act" of 1976).

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