



Just The Right Chemistry

Technical Data Sheet

DSC GOLD FLUSH R Displacement Additive

Outstanding Characteristics:

Maximum strength, eco-friendly wellbore displacement additive for complete removal of oil base and synthetic oil base mud from riser.

Description:

DSC GOLD FLUSH R is an innovative, environmentally friendly concentrated mixture of solvents and surfactants for riser cleanup. **DSC GOLD FLUSH R** is dispersible in seawater, therefore, it can be diluted with seawater to a desired level for cleaning operations. The dilute solution can also clean all surface tanks, lines and manifolds.

Application:

The recommended amounts of **DSC GOLD FLUSH R** will vary from each riser. The volume and rate of pumping are some of the important factors that have a significant effect upon the cleaning process. For the highest level of cleaning, correct dilution is required. For a specific **DSC GOLD FLUSH R** recommendation, technical and application information is available to help provide the best **DSC GOLD FLUSH** eco-friendly solvent for your downhole cleaning needs. Please call a **DSC Customer Service Representative at 1-800-737-3546**.

Shipping and Handling Instructions:

DSC GOLD FLUSH R is shipped in 55-gallon drums, 350 gallon and 550 gallon stainless steel tote tanks. A Material Safety Data Sheet outlining recommended safe handling of **DSC GOLD FLUSH R** is available upon request.



SECTION I - GOLD SURF - SAFETY DATA

TRADE NAME: GOLD SURF

PRODUCT DESCRIPTION: Surfactant Mixture (Wetting Agent)

SUPPLIER: DEEP SOUTH CHEMICAL, INC.

229 Millstone Road

Broussard, LA 70518

NAME OF CONTACT: S. Baijal/Glenn Ray/ Peter Lundie (U.K.)

Emergency Telephone Number (UK): Chemtrec 1-800-424-9300 (or) 703-527-3887

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

COMPOSITION:

(a) Substances classified under CHIP: Blend of non-ionic surfactants

Symbol-Letters and Risk Phrases: Linear Primary alcohol ethoxylate

Irritant Xi, R36/R38

(b) Non Classified Substances None

SECTION III - HAZARDS IDENTIFICATION

For the substance in section 1(a), the following apply:

(i) Inhalation: Irritation can be expected if exposure is excessive.

(ii) Skin contact: Irritating to skin. Defatting of skin can occur with frequent or long term skin contact.

(iii) Eye contact: Irritation to eyes.

(iv) Ingestion: There may be irritation of the mouth, throat and digestive tract. Low systemic toxicity.

(v) Delayed effects after exposure.

SECTION IV - FIRST AID MEASURES

(i) Inhalation: Move to area of fresh air until discomfort ceases.

Seek medical advice if necessary.

(ii) Skin contact: Wash skin with soap and water.

(iii) Eye contact: Wash the eyes with plenty of water for at least 15 minutes.

If irritation persists, seek medical advice.

(iv) Ingestion: Drink plenty of water.

Safety phrase: S 24/25, 26,28.

SECTION V- FIRE FIGHTING MEASURES

FLASH POINT (oC): 76.7oC (PMCC)
FLAMMABLE LIMITS: -
AUTOIGNITION TEMPERATURE: N/A
SUITABLE EXTINGUISHING MEDIA: Powder, foam, CO2
EXTINGUISHING MEDIA NOT TO BE USED: Water jet may spread fire.
DECOMPOSITION/COMBUSTION PRODUCTS: Oxides of carbon.
SPECIAL FIRE FIGHTING PROCEDURES: Water spray to cool drums.
SPECIAL PROTECTIVE FIRE: -
FIGHTING EQUIPMENT: -

SECTION VI - ACCIDENTAL RELEASE MEASURES/SPILLS AND LEAKS

PERSONAL PRECAUTIONS: Use personal protection equipment - section 7. Remove sources of ignition.
ENVIRONMENTAL PRECAUTIONS: Do not allow to enter drains or waterways.
CLEANING UP METHOD: Soak up on absorbent, inert material. Wash area with water. For large spills, dike area and pump into suitable containers. See section 13 also.

SECTION VII - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Prevent static buildup and discharge. Keep away from potential sources of ignition. Avoid contact with skin, eyes and clothing.
CONDITIONS FOR SAFE STORAGE: Store in dry place. Ensure adequate air circulation. Keep drums tightly closed. Avoid strong oxidizing agents. Avoid potential sources of ignition.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE STANDARD:
8 hour TWA: N/A
10 min TWA: N/A
PRECAUTIONARY ENGINEERING MEASURES:
Fume extraction where required; adequate air circulation.
RESPIRATORY PROTECTION: Suitable equipment in case of insufficient ventilation.
HAND PROTECTION: Wear rubber or plastic gloves.
EYE PROTECTION: Safety glasses or goggles.
SKIN PROTECTION: Oil proof protective clothing.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Opaque amber liquid.
ODOR: nil
pH: 7-8 in sea water
BOILING POINT/BOILING RANGE (oC): 170oC approx.
MELTING POINT/MELTING RANGE (oC): -
FLASH POINT (oC) (METHOD USED): 76.7oC (PMCC)
FLAMMABILITY LIMITS: -
AUTO FLAMMABILITY: -
EXPLOSIVE PROPERTIES: LEL: N/A UEL: N/A
OXIDIZING PROPERTIES: at 20oC, s mm -N/D

VAPOR PRESSURE: at 20°C, 0.4 mmHg
SPECIFIC GRAVITY: Approx. 1.01
SOLUBILITY: Soluble in water.
PARTITION COEFFICIENT, N-OCTANOL/WATER: N/A

SECTION X - STABILITY AND REACTIVITY

STABILITY/CONDITIONS TO AVOID: Stable in normal conditions.
INCOMPATIBILITY/MATERIALS: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Smoke, carbon oxides.
HAZARDOUS POLYMERIZATION: None described.

SECTION XI - TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENTS: Irritating to eyes and skin.
IMMEDIATE HEALTH EFFECTS: Irritation.
DELAYED HEALTH EFFECTS: Defatting of skin with frequent or prolonged skin contact.
ACUTE EFFECTS (Short term): -N/D
CHRONIC EFFECTS (Long term): -N/D

SECTION XII - ECOLOGICAL INFORMATION

UK OCNS CATEGORY: B
ENVIRONMENTALLY DANGEROUS INGREDIENTS: None
MOBILITY: -
PERSISTENCE AND DEGRADABILITY: All the components are biodegradable.
BIODEGRADATION: 60% (28 days), OECD 306
ErC50 (72 hours) *Skeletonema costatum*: 1.5 mg/l
LC50 (48 hours) *Acartia tonsa*: 9.3 mg/l
LC50 (10 days) *Corophium voliotator*: 5200 mg/kg
BIOACCUMULATIVE POTENTIAL: Low
AQUATIC TOXICITY: 48 HR LC50 (Brown shrimp) < 100 ppm
MARINE POLLUTANT (IMDG Code): No

SECTION XIII - DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE MATERIALS: Incinerate or in compliance with local regulations.
DISPOSAL OF WASTE CONTAINERS: Recycle, clean out residues.
DISPOSAL RESTRICTIONS: Comply with local regulations.
STATUTORY NOTIFICATION REQUIRED: None in UK.

SECTION XIV - TRANSPORT/LABEL INFORMATION

DESIGNATION: -
UN NUMBER: 1993
IATA CLASSIFICATION: 3 (III)
IMDG CLASSIFICATION: 3.3
SPECIAL PRECAUTIONS RE CARRIAGE: Carry Tremcard.

SYMBOLS: Combustible liquid for road/air/sea transport.

SHIPPING: Combustible liquid

SECTION XV - REGULATORY INFORMATION

SUPPLY LABEL SYMBOLS: Xi-Irritant

RISK AND SAFETY PHRASES: R10-Combustible

R 36/38-Irritating to eyes and skin.

S 24/25-Avoid contact with skin and eyes.

S 26-IN CASE OF CONTACT WITH EYES: Rinse immediately with plenty of water and seek medical advice. S28-After contact with skin, wash immediately with plenty of soap and water.

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