

MIRANOL FBS

Revision: 2.01 US (EN)

Issuing date: 04/01/2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : MIRANOL FBS

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

Uses of the Substance / Mixture : Specific use(s): Surfactants used in cosmetics

1.3 Details of the supplier of the safety data sheetCompany : Deep South Chemical, Inc.
229 Millstone Road
Broussard, LA 70518
Telephone number: 337-837-9931**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

| | |
|---|--|
| Flammable liquids, Category 4 | H227: Combustible liquid. |
| Eye irritation, Category 2A | H319: Causes serious eye irritation. |
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ systemic toxicity - single exposure, Category 1, Central nervous system | H370: Causes damage to organs. |
| , optic nerve | |

2.2 Label elements**HCS 2012 (29 CFR 1910.1200)**

Pictogram :



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Signal Word : Danger

Hazard Statements:

H227 Combustible liquid.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H370 Causes damage to organs (Central nervous system, optic nerve).

Precautionary Statements:

Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves/ eye protection/ face protection.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

H401: Toxic to aquatic life.

H411: Toxic to aquatic life with long lasting effects.

SECTION 3: Composition/information on ingredients**3.1 Substance**

Not applicable, this product is a mixture.

3.2 Mixture

Chemical nature : Aqueous solution of
 Disodium cocoamphodipropionate

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Hazardous Ingredients and Impurities

| Chemical Name | Identification number CAS-No. | Concentration [%] |
|---------------------------------|----------------------------------|-------------------|
| Disodium Cocoampho Dipropionate | 68604-71-7 | 30 - 40 |
| Methanol | 67-56-1 | 1-5 |

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

Non Hazardous Ingredients and Impurities

| Chemical Name | Identification number CAS-No. | Concentration [%] |
|---------------|----------------------------------|-------------------|
| Water/Inerts | ***** | < 57 |

SECTION 4: First aid measures**4.1 Description of first-aid measures**

- General advice : Show this material safety data sheet to the doctor in attendance.
First responder needs to protect himself.
Place affected apparel in a sealed bag for subsequent decontamination.
- Skin contact : Remove contaminated clothing and shoes.
Wash off immediately with plenty of water for at least 15 minutes.
If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Wash contaminated clothing before reuse.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get immediate medical advice/ attention.
- Ingestion : If victim is conscious:
Rinse mouth with water.
Keep at rest.

Do not induce vomiting without medical advice.
Do not leave the victim unattended.
Vomiting may occur spontaneously
Risk of product entering the lungs on vomiting after ingestion.
Lay victim on side.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Skin contact may aggravate existing skin disease
Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Treat symptomatically.
There is no specific antidote available.

SECTION 5: Firefighting measures

Flash point : 144 °F (62 °C)
closed cup

Flammability class: Combustible

Autoignition temperature : no data available

Flammability / Explosive limit : Lower flammability/explosion limit : 6.00 %(V)
Upper flammability/explosion limit : 36.00 %(V)

5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
Multipurpose powders
Foam
Water spray

Unsuitable extinguishing media : High volume water jet
(frothing possible)

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Vapors may spread long distances and ignite.
Container may explode if heated.
Under fire conditions:
Will burn
However it does not sustain combustion as determined by a test method specified in 49 CFR 173 - Appendix H to Part 173 Method for Sustained Combustibility
On combustion or on thermal decomposition (pyrolysis), releases:
Nitrogen oxides (NO_x)
Carbon oxides

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

Specific fire fighting methods : Cool containers/tanks with water spray.

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Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions, protective equipment and emergency procedures : Avoid contact with eyes, skin, and respiratory system.
Keep away from flames and sparks.
Remove all sources of ignition.
Ventilate the area.
Wear suitable protective equipment.
For further information refer to section 8 "Exposure controls / personal protection."
Stop the leak and if possible, avoid any contact with skin and apparel.

6.2 Environmental precautions

Environmental precautions : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Do not flush into surface water or sanitary sewer system.
Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

6.3 Methods and materials for containment and cleaning up

Methods for containment : Keep in properly labeled containers.
Keep in suitable, closed containers for disposal.

Recovery : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Sweep up or vacuum up spillage and collect in suitable container for disposal.
Never return spills in original containers for re-use.

Decontamination / cleaning : Clean contaminated surface thoroughly.
Wash nonrecoverable remainder with large amounts of water.
Recover the cleaning water for subsequent disposal.
Decontaminate tools, equipment and personal protective equipment in a segregated area.

Disposal : Dispose of in accordance with local regulations.

Additional advice : Material can create slippery conditions.

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6.4 Reference to other sections

Reference to other sections : 7. HANDLING AND STORAGE
8. EXPOSURE CONTROLS/PERSONAL PROTECTION
13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Technical measures : Vapor extraction at source
Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Non-sparking tools should be used.
Ensure all equipment is electrically grounded before beginning transfer operations.

Advice on safe handling and usage : Handle in accordance with good industrial hygiene and safety practice.
Avoid splashes.
Avoid the formation or spread of mists in the atmosphere.
Avoid inhalation, ingestion and contact with skin and eyes.

Freezing will affect the physical condition but will not damage the material.
Thaw and mix before using.
To safely melt this material, use low pressure steam or place in a heated room
Avoid localized overheating.
Vent drums while heating
Mix thoroughly before use.

Hygiene measures : Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3) Wash exposed skin promptly to remove accidental splashes or contact with material.

Use clean, well maintained personal protection equipment.

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7.2 Conditions for safe storage, including any incompatibilities

Technical Measures for storage : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage conditions

Recommended : Keep container tightly closed in a dry and well-ventilated place.

To be avoided : Keep away from incompatible materials to be indicated by the manufacturer
Keep away from open flames, hot surfaces and sources of ignition.

Incompatible products : Strong acids
Strong bases
Strong oxidizing agents
Strong reducing agents.

Storage stability

Storage temperature : 50 - 120 °F (10 - 49 °C)

Other data : Do not freeze.
Low pressure steam or a water bath may be used to melt solidified material
For further information, refer to section 10: "Stability and Reactivity."

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection**Introductory Remarks:**

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal Considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters**Ingredients with workplace control parameters**

| Ingredients | Value type | Value | Basis |
|-------------|------------|----------------------------------|-------|
| Methanol | TWA | 200 ppm 260 mg/m ³ | NIOSH |
| | | Potential for dermal absorption | |
| Methanol | ST | 250 ppm 325 mg/m ³ | NIOSH |
| | | Potential for dermal absorption | |

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| | | | |
|----------|--|----------------------------------|------------|
| Methanol | TWA | 200 ppm | ACGIH |
| | Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption | | |
| Methanol | STEL | 250 ppm | ACGIH |
| | Headache, Nausea, Dizziness, Eye damage, Substances for which there is a Biological Exposure Index or Indices (see BEI® section), Danger of cutaneous absorption | | |
| Methanol | TWA | 200 ppm 260 mg/m ³ | OSHA Z-1 |
| | The value in mg/m ³ is approximate. | | |
| Methanol | TWA | 200 ppm 260 mg/m ³ | OSHA Z-1-A |
| | Skin notation | | |
| Methanol | STEL | 250 ppm 325 mg/m ³ | OSHA Z-1-A |
| | Skin notation | | |

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

| Ingredients | CAS-No. | Concentration |
|-------------|---------|---------------|
| Methanol | 67-56-1 | 6000 ppm |

Biological Exposure Indices

| Ingredients | Value type | Value | Basis |
|-------------|------------|--|-------|
| Methanol | BEI | 15 mg/l Methanol Urine End of shift (As soon as possible after exposure ceases) | ACGIH |

8.2 Exposure controls

Control measures

Engineering measures : Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :

Effective exhaust ventilation system

Avoid splashes.

Personal protective equipment

Respiratory protection : When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.

Use a respirator with an approved filter if a risk assessment indicates this is necessary.

Hand protection : Where there is a risk of contact with hands, use appropriate gloves

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Gloves must be inspected prior to use.

Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection : Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.

Eye contact should be prevented through the use of:

Safety glasses with side-shields

In case of contact through splashing:

Wear face-shield and protective suit.

Skin and body protection

: Protective suit
impervious clothing
Footwear protecting against chemicals

Hygiene measures

: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:

1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.

2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

3) Wash exposed skin promptly to remove accidental splashes or contact with material.

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Use clean, well maintained personal protection equipment.

Protective measures

: The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

Ensure that eyewash stations and safety showers are close to the workstation location.

Emergency equipment immediately accessible, with instructions for use.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

| | | |
|-------------------------------------|---|---|
| Appearance | : | Form : thin Physical state: liquid Color: amber |
| Odor | : | alcoholic |
| Odor Threshold | : | no data available |
| pH | : | 9.4 - 9.8 (100 % (m/v)) |
| Freezing point | : | < 32 °F (0 °C) |
| Boiling point/boiling range | : | > 208 °F (98 °C) (760 mmHg (1,013.25 hPa)) |
| Flash point | : | 144 °F (62 °C) closed cup Flammability class: Combustible |
| Evaporation rate (Butylacetate = 1) | : | no data available |
| Flammability (solid, gas) | : | no data available |
| Flammability (liquids) | : | no data available |
| Flammability / Explosive limit | : | Lower flammability/explosion limit: 6.00 %(V) Upper flammability/explosion limit: 36.00 %(V) |
| Autoignition temperature | : | no data available |
| Vapor pressure | : | < 23.5 mmHg (31.33 hPa) (77 °F (25 °C)) |

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| | | |
|--|---|--|
| Vapor density | : | no data available |
| Density | : | 1.05 - 1.09 g/cm ³ (77 °F (25 °C)) |
| Solubility | : | <u>Water solubility</u> : soluble |
| Partition coefficient: n-octanol/water | : | no data available |
| Thermal decomposition | : | no data available |
| Viscosity | : | no data available |
| Explosive properties | : | no data available |
| Oxidizing properties | : | no data available |

9.2 Other information

Volatiles by Volume : < 62 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

Reactivity : Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Chemical stability : Stable under normal conditions.
Stable under recommended storage conditions.
See chapter
7. HANDLING AND STORAGE

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Polymerization : Hazardous polymerization does not occur.

10.4 Conditions to avoidConditions to avoid : Keep away from flames and sparks.
Keep away from heat and sources of ignition.

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10.5 Incompatible materials

Materials to avoid : Strong acids
Strong bases
Strong oxidizing agents
Strong reducing agents

10.6 Hazardous decomposition products

Decomposition products : On combustion or on thermal decomposition (following the evaporation of water) releases:
Nitrogen oxides (NO_x)
(Carbon oxides (CO + CO₂)).

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity : LD50 : > 5,350 mg/kg - Rat
Original results (ml/kg) are converted using density.

Acute inhalation toxicity : LC50 - 1 h : 64000 ppm - Rat
Data available only for some components.

Acute dermal toxicity : Not classified as hazardous for acute toxicity according to GHS
According to the data on the components
According to the classification criteria for mixtures.

Acute toxicity (other routes of administration) : no data available

Skin corrosion/irritation

Skin irritation : Rabbit
No skin irritation

Serious eye damage/eye irritation

Eye irritation : Rabbit
Irritating to eyes.
Moderate eye irritation

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Respiratory or skin sensitization

Sensitization

- Disodium Cocoampho Dipropionate : Maximization Test (GPMT) - Guinea pig
Causes sensitization.
Method: OECD Test Guideline 406
Unpublished internal reports
- Methanol : Magnusson and Kligman method - Guinea pig
Does not cause skin sensitization.
Method: OECD Test Guideline 406
Unpublished reports

Mutagenicity

- Genotoxicity in vitro : According to the data on the components
Product is not considered to be genotoxic
According to the classification criteria for mixtures.
- Genotoxicity in vivo : According to the data on the components
Product is not considered to be genotoxic
According to the classification criteria for mixtures.

Carcinogenicity

- Carcinogenicity : According to the data on the components
The product is not considered to be carcinogenic.
According to the classification criteria for mixtures.

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA
ACGIH

Toxicity for reproduction and development

- Toxicity to reproduction / fertility : According to the data on the components
The product is not considered to affect fertility.
According to the classification criteria for mixtures.
- Developmental Toxicity/Teratogenicity : According to the data on the components
The product is not considered to be toxic for development.
The product is not considered to be teratogenic.
According to the classification criteria for mixtures.

STOT

- STOT-single exposure : Routes of exposure: Ingestion, Skin contact, inhalation (vapor)
Target Organs: Central nervous system, optic nerve
Toxicology Assessment:
The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.
According to the classification criteria for mixtures.
- STOT-repeated exposure : Toxicology Assessment:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
According to the classification criteria for mixtures.

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Experience with human exposureExperience with human exposure : Inhalation
Methanol

: Target Organs: Central nervous system

Target Organs: optic nerve

Symptoms: Inhalation may provoke the following symptoms:

Dizziness

Nausea

acidosis

Blurred vision

Impairment of vision

Published data

Experience with human exposure : Ingestion
Methanol

: Target Organs: Central nervous system

Target Organs: optic nerve

Symptoms: Ingestion may provoke the following symptoms:

Dizziness

Nausea

acidosis

Abdominal pain

Vomiting

Central nervous system depression

Headache

Breathing difficulties

Impairment of vision

Blurred vision

Coma

Death

May cause respiratory arrest.

Poison, may be fatal or cause blindness if swallowed.

Aspiration toxicity

Aspiration toxicity

: No aspiration toxicity classification

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment**

Acute toxicity to fish : The product itself has not been tested.

Acute toxicity to daphnia and other aquatic invertebrates. : The product itself has not been tested.

Toxicity to aquatic plants : The product itself has not been tested.

Toxicity to microorganisms : The product itself has not been tested.

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Terrestrial Compartment

Toxicity to soil dwelling organisms : The product itself has not been tested.

Ecotoxicity assessmentAcute aquatic toxicity : According to the data on the components
Toxic to aquatic life.
According to the classification criteria for mixtures.Chronic aquatic toxicity : According to the data on the components
Toxic to aquatic life with long lasting effects.
According to the classification criteria for mixtures.**12.2 Persistence and degradability****Biodegradability**

Biodegradability : Inherently biodegradable.

Ratio BOD / ThOD

Methanol : no data available

Stability

Stability in water : Conclusion is not possible due to incomplete or heterogeneous data on the components

Photodegradation

Methanol : Degradat. indirect photolysis: 50 %
Degrad. time indirect photolysis: 17.2 d
Published data**12.3 Bioaccumulative potential**

Partition coefficient: n-octanol/water : Not applicable, preparation.

Bioconcentration factor (BCF) : Conclusion is not possible due to incomplete or heterogeneous data on the components

12.4 Mobility in soil

Adsorption potential (Koc) : Conclusion is not possible due to incomplete or heterogeneous data on the components

Known distribution to environmental compartments : Ultimate destination of the product: Water

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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12.6 Other adverse effects

Environment assessment : The product itself has not been tested.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

Prohibition : Should not be released into the environment.
Do not let product enter drains.

Advice on Disposal : Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Waste Code : EPA:
Hazardous Waste – NO

Advice on cleaning and disposal of packaging

Advice : Empty the packaging completely prior to disposal.
Completely empty the packaging prior to decontamination.
Carefully drain and then steam clean.
Offer rinsed packaging material to local recycling facilities.

Other data : Dispose of in accordance with local regulations.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number UN 3082

14.2 Dangerous Good Description UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DISODIUM COCOAMPHODIPROPIONATE), 9, III

14.3 Transport hazard class 9

14.4 Packing group

Packing group III
Label(s) 9
ERG No 171

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14.5 Environmental hazards

Marine pollutant

YES

TDG

14.1 UN number

UN 3082

14.2 Dangerous Good DescriptionUN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DISODIUM COCOAMPHODIPROPIONATE), 9, III**14.3 Transport hazard class**

9

14.4 Packing group

Packing group

III

Label(s)

9

ERG No

171

14.5 Environmental hazards

Marine pollutant

YES

IMDG

14.1 UN number

UN 3082

14.2 Dangerous Good DescriptionUN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DISODIUM COCOAMPHODIPROPIONATE), 9, III, IMDG Code Segregation
Group -Not Relevant
IMDG Code segregation group
Not Relevant**14.3 Transport hazard class**

9

14.4 Packing group

Packing group

III

Label(s)

9

EmS

F-A , S-F

14.5 Environmental hazards

Marine pollutant

YES

14.6 Special precautions for user

For personal protection see section 8.

IATA

14.1 UN number

UN 3082

14.2 Dangerous Good DescriptionUN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(DISODIUM COCOAMPHODIPROPIONATE), 9, III

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| | |
|---|----------|
| <u>14.3 Transport hazard class</u> | 9 |
| <u>14.4 Packing group</u> | |
| Packing group | III |
| Label(s): | 9 |
| Packing instruction (cargo aircraft) | 964 |
| Max net qty / pkg | 450.00 L |
| Packing instruction (passenger aircraft) | 964 |
| Max net qty / pkg | 450.00 L |
| <u>14.5 Environmental hazards</u> | YES |
| Marine pollutant | |

14.6 Special precautions for user

For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information**15.1 Notification status**

| | |
|---|--|
| United States TSCA Inventory | : y (positive listing) On TSCA Inventory |
| Canadian Domestic Substances List (DSL) | : y (positive listing) All components of this product are on the Canadian DSL. |
| Australia Inventory of Chemical Substances (AICS) | : y (positive listing) On the inventory, or in compliance with the inventory |
| Japan. CSCL - Inventory of Existing and New Chemical Substances | : y (positive listing) On the inventory, or in compliance with the inventory |
| Korea. Korean Existing Chemicals Inventory (KECI) | : y (positive listing) On the inventory, or in compliance with the inventory |
| China. Inventory of Existing Chemical Substances in China (IECSC) | : y (positive listing) On the inventory, or in compliance with the inventory |

15.2 Federal Regulations

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SARA 311/312 Hazards

| | |
|-----------------------------------|-----|
| Fire Hazard | yes |
| Reactivity Hazard | no |
| Sudden Release of Pressure Hazard | no |
| Acute Health Hazard | yes |
| Chronic Health Hazard | no |

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:
Methanol 67-56-1 3.5 %

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity**

| Ingredients | CAS-No. | Reportable quantity |
|-------------|---------|---------------------|
| Methanol | 67-56-1 | 5000 lb |

SARA 304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Reportable Quantity

This material does not contain any components with a SARA 302 RQ.

15.3 State Regulations

California Prop 65 : WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.
Methanol

SECTION 16: Other information**NFPA-Classification**

Health : 2 moderate
Flammability : 2 moderate
Instability or Reactivity : 0 minimal

HMIS-Classification

Health : 2 moderate
Flammability : 2 moderate
Reactivity : 0 minimal

MIRANOL FBS

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Further information

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This sheet was updated (refer to the date at the top of this page).
Subheadings and text which have been modified since the previous version
are indicated with two vertical bars.

Key or legend to abbreviations and acronyms used in the safety data sheet

ST : STEL - 15-minute TWA exposure that should not be exceeded at any time
during a workday
STEL : Short-term exposure limit
TWA : 8-hour, time-weighted average
ACGIH : American Conference of Governmental Industrial Hygienists
OSHA : Occupational Safety and Health Administration
WHMIS : Workplace Hazardous Materials Information System
NTP : National Toxicology Program
IARC : International Agency for Research on Cancer
SAEL : Solvay Acceptable Exposure Limit
NIOSH : National Institute for Occupational Safety and Health
NFPA : National Fire Protection Association
HMIS : Hazardous Materials Identification System (Paint & Coating)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.