

# General Surfactants

## SAFETY DATA SHEET

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### 1. Identification of the substance/mixture and of the company/undertaking

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#### 1.1 Product identifier

Trade name: **Surfamide 81 DIPA**

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

Uses of the Substance/Mixture: Surfactant for various applications. For further information refer to the product technical datasheet. Uses other than those identified are not recommended

#### 1.3 Details of the supplier of the safety data sheet

Company: General Surfactants, Inc.  
30 Industry Avenue  
Joliet, IL 60435

Prepared by: SDS Coordinator  
Date prepared: 2/18/2016

#### 1.4 Emergency telephone

Emergency telephone number: 815-727-4791

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### 2. Hazards identification

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#### 2.1 Emergency overview

Appearance: Clear light amber slightly viscous liquid  
Precautionary statements: Causes eye irritation

##### GHS classification

###### Physical

Not classified

###### Health

Serious eye irritation

Category 2A

###### Environmental

Not classified

#### 2.2 GHS label elements, including precautionary statements



Hazard pictograms/symbols

Signal Word: WARNING

Hazard Statements: H320: Causes eye irritation

Precautionary Statements:

Prevention

P262: Do not get in eyes, on skin, or on clothing

P264: Wash affected areas thoroughly after handling

P280: Wear protective gloves and eye, face and foot protection

Response

P301+312+330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P303+P352+P332+P313: IF ON SKIN: Wash with plenty of soap and water. If skin irritation persists get medical advice/attention.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do - continue rinsing. Immediately call a POISON CENTER or doctor/physician

P363: Wash contaminated clothing before reuse

Storage

P233: Keep container tightly closed

P234: Keep only in original container

P501: Dispose of contents and container to an approved waste disposal plant

#### 2.3 Other hazards

No information available

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### 3. Composition/information on ingredients

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#### 3.1 Information on components and impurities

Chemical name	CAS number(s)	GHS Classification	Concentration, %
Cocamide DIPA	68855-69-6	H320: Causes eye irritation	>=45-<=55
Diisopropanolamine	110-97-4	Eye Irritation Category 2; H319: Causes serious eye irritation	>=20-<=24
Not classified		Not classified	Balance

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### 4. First aid measures

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#### 4.1 Description of first-aid measures

General advice: Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

Eye contact: Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

Skin contact: Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

Ingestion: Rinse mouth with water. Seek medical attention if you feel unwell.

If inhaled: Remove from area to fresh air. Exposure to vapor is minimal due to low volatility. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

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

Risks: The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis. Prolonged exposure may cause chronic effects.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Note 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.

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### 5. Firefighting measures

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Flash Point and Method: None

#### 5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable  
Use media suitable for the material that is burning

Unsuitable extinguishing media: No information available

#### 5.2 Special hazards arising from the substance or mixture

Special hazards during fire fighting: Container may rupture on heating

On combustion or on thermal decomposition: No information available

#### 5.3 Advice for firefighters

Special protective equipment for firefighters: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

Specific firefighting methods: No special methods required. Move containers from area if it can be done without risk. Cool fire-exposed containers with water from side. Contain the extinguishing fluids by diking

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### 6. Accidental release measures

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#### 6.1 Personal precautions, protective equipment and emergency procedures

Spill area may be slippery. Wear appropriate protective equipment (See Section 8).

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system

#### 6.3 Methods and material for containment and cleaning up

Recovery: Stop leak if safe to do so. Absorb spills with vermiculite, fuller's earth, or sand. Shovel up and place in a non-metal waste container for disposal. Dike large spills with soil or sandbags to contain it and prevent its spread. Keep in suitable, properly labeled, closed containers for disposal.

Decontamination/  
cleaning: Wash non-recoverable remainder with large amounts of water. Clean contaminated surfaces thoroughly.  
Recover the cleaning water for subsequent disposal.

Disposal: Dispose of in accordance with local regulations.

Additional advice: Spill area may be slippery.

#### 6.4 Reference to other sections

No information available

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**7. Handling and storage**

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**7.1 Precautions for safe handling**

Technical measures:

Advice on safe handling and usage:

Does not require any specific or particular measures

Wear appropriate protective equipment including chemical resistant gloves, chemical splash goggles and protective footwear. Handle in accordance with good industrial hygiene and safety practice. Wash affected areas after use. Do not taste or swallow. Avoid breathing mists. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

**7.2 Conditions for safe storage, including any incompatibilities**

Technical measures for storage:

Does not require any specific or particular measures

**Storage conditions**

Recommended:

Keep container tightly closed. Opened containers must be carefully resealed and kept upright to prevent leakage.

Incompatible products:

Hazardous reactions may occur on contact with certain chemicals. Refer to the list of incompatible materials section 10: "Incompatible materials"

**7.3 Specific end use(s)**

No information available

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**8. Exposure controls/personal protection**

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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**

Components with workplace control parameters

Components	Value	Control parameters	Basis
Diisopropanolamine, CAS#110-97-4	TWA	10 mg/m <sup>3</sup> ; skin	Dow IHG

**8.2 Exposure controls****Control measures**

Engineering measures:

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

**Personal protective equipment**

Respiratory protection:

In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Hand protection:

Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time 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 contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection:

Wear chemical splash goggles.

Skin and body protection:

Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

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 material:

- 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.

Protective measures:

Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from 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.

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## 9. Physical and chemical properties

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Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact General Surfactants for additional information.

### 9.1 Information on basic physical and chemical properties

Appearance:	Clear light amber solution
Odor:	Mild
Odor Threshold:	No information available
pH:	8-10 (1% aqueous solution)
Freezing point:	No information available
Melting point/range:	No information available
Boiling point/boiling range:	>100°C
Flash point:	Does not flash
Evaporation rate:	No information available
Flammability (solid, gas):	Not applicable
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Density:	0.99 g/ml, 8.3 lbs/gal (25°C)
Solubility:	Water solubility: soluble
Solubility in other solvents:	No information available
Partition coefficient: n-octanol/water:	No information available
Thermal decomposition:	No information available
Viscosity:	Slightly viscous
Explosive properties:	No information available
Oxidizing properties:	No information available

### 9.2 Other information

No information available

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## 10. Stability and reactivity

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### 10.1 Reactivity

No information available

### 10.2 Chemical stability

Stable and non-reactive under normal conditions of use, storage and transport

### 10.3 Possibility of hazardous reactions

No information available

### 10.4 Conditions to avoid

No information available

### 10.5 Incompatible materials

Strong acids, peroxides

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known

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## 11. Toxicological information

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Product Summary:

Causes eye irritation. No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product.

### 11.1 Information on toxicological effects

#### Acute toxicity

Acute oral:

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Swallowing may result in gastrointestinal irritation or ulceration

Acute dermal:

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Acute inhalation:

At room temperature, exposure to vapor is minimal due to low volatility. Vapor from heated material may cause respiratory irritation and other effects. For narcotic effects: No relevant data found.

Acute toxicity (other routes of administration):

No information available

#### Skin corrosion/irritation

Skin irritation:

May cause skin irritation

#### Serious eye damage/eye irritation

Eye irritation:

Causes eye irritation

#### Respiratory or skin sensitization

Sensitization:

Not classified as sensitizing by skin contact

Surfamide 81 DIPA

**Mutagenicity**

Genotoxicity in vitro: No information available  
 Genotoxicity in vivo: No information available

**Carcinogenicity**

Carcinogenicity: No information available

**Toxicity for reproduction and development**

Toxicity to reproduction/fertility: No information available  
 Developmental toxicity/teratogenicity: No information available

**Specific Target Organ Toxicity (STOT)**

STOT-single exposure: Not a toxicant  
 STOT-repeated exposure: No information available

**Aspiration toxicity**

Aspiration toxicity: Based on physical properties, not likely to be an aspiration hazard

**Other Hazards**

Organ	Description
Eyes	Causes eye irritation. Symptoms may include pain, burning sensation, redness, watering, blurred vision.
Skin	Prolonged contact may cause skin irritation with local redness. May cause more severe response if skin is scratched or cut.
Ingestion	Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	Exposure to vapor is minimal due to low volatility. Symptoms may include coughing and difficulty breathing.
Sensitization	No known effects.

**12. Ecological information**

<b>12.1 Toxicity</b>	Aquatic toxicity:	No information available
<b>12.2 Persistence and degradability</b>	Biodegradation:	No information available
<b>12.3 Bioaccumulative potential</b>	Partition coefficient: n-octanol/water:	No bioaccumulation is to be expected (log Pow<=4)
	Bioconcentration factor (BCF):	No information available
<b>12.4 Mobility in soil</b>	Known distribution to environmental compartments:	No information available
<b>12.5 Results of PBT and vPvB assessment</b>	No information available	
<b>12.6 Other adverse effects</b>	Environmental assessment:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

**13. Disposal considerations**

<b>13.1 Waste treatment methods</b>	RCRA Waste Code:	The waste code should be assigned in discussion between the user, the producer and the waste disposal company
	Product disposal:	Observe all applicable federal, state, and local regulations
	Packaging:	Remove all residue when emptying

**14. Transportation information**

DOT Hazard Classification: Not regulated

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Notification status:

Country	Regulatory list	Notification
USA	TSCA	Listed or in compliance with the requirements the inventory
Canada	DSL	Listed or in compliance with the requirements the inventory
China	IECSC	Listed or in compliance with the requirements the inventory
Korea	ECL	Listed or in compliance with the requirements the inventory; KE-14301

OSHA Hazard Communication Standard (26 CFR 1910.1200): Hazardous

**CERCLA (RQ)**

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

**SARA/EPCRA Extremely Hazardous Substances (302/304)**

Ingredient(s)	CAS#	Weight	RQ	TPQ
Not listed				

**SARA Hazard Categories (311/312)**

Fire	Reactive	Acute health hazard	Chronic health hazard
No	No	Yes	No

**SARA Toxic Substances (313)** The following components are subject to SARA Section 313 reporting requirements

Ingredient(s)	CAS#	Weight
Not listed		

**CAA (311) Volatile Organic compounds**

Ingredient(s)	CAS#	Weight
Not listed		

**State regulations**

California Prop 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Carcinogens & Reproductive Toxicity (CRT): Not listed

**15.2 Other regulations**

No information available

**16. Other information**

NFPA-Classification		HMIS-Classification	
Health	2 moderate	Health	2 moderate
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

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

ACGIH: American Conference of Governmental Industrial Hygienists	NIOSH: National Institute for Occupational Safety and Health
HMIS: Hazardous Materials Identification System	NTP: National Toxicology Program
IARC: International Agency for Research on Cancer	OSHA: Occupational Safety and Health Administration
NFPA: National Fire Protection Association	

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