General Surfactants

SAFETY DATA SHEET

1.	Identification of	he substance/mixture and of the company/undertaking
1.1	Product identifie Trade name:	r Surfamide 8
1.2	Relevant identified Uses of the Subst	ed uses of the substance or mixture and uses advised against ance/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 sup Company: Prepared by:	oplier of the safety data sheet General Surfactants, Inc. 30 Industry Avenue Joliet, IL 60435 SDS Coordinator
	Date prepared:	7/18/2016 Supersedes: 6/6/2015 Reason: Review and update
1.4	Emergency telept Emergency telept	
2.	Hazards identific	ation
2.1	Emergency over Appearance: Precautionary stat GHS classificatio Physica Not clas	Clear light amber slightly viscous liquid tements: Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if swallowed. Toxic to aquatic life.
	Health Skin col Serious Carcino Specific	rrosion/irritation Category 2 eye damage/eye irritation Category 2A
		bus to the aquatic environment, acute Category 2
2.2		nts, including precautionary statements
Hazard	pictograms/symbols	
Signal ' Hazard	Word: Statements:	DANGER! H315: Causes skin irritation H319: Causes serious eye irritation H351: Suspected of causing cancer H360: May damage fertility or the unborn child H373: May cause damage to organs (blood, kidney, liver) through prolonged or repeated exposure if swallowed H401: Toxic to aquatic life
Precautionary Statements: Prevention P260: Do not breath P264: Wash affecte P280: Wear protecti Response P301+312+330: IF S mouth.		Prevention P260: Do not breathe spray P264: Wash affected areas thoroughly after handling P280: Wear protective gloves and eye, face and foot protection
		P301+312+330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse
		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

2.3 Other hazards

No information available

3. Composition/information on ingredients

3.1 Information on components and impurities

Chemical name	CAS	GHS Classification	Concentration,
	number(s)		%
Cocamide DEA	68603-42-9	H315: Causes skin irritation; H319: Causes serious eye irritation; H373: May cause	>=60-<=70
		damage to organs (blood, kidney, liver) through prolonged or repeated exposure if	
		swallowed; H401: Toxic to aquatic life	
Diethanolamine	111-42-4	H302: Harmful if swallowed; H315: Causes skin irritation; H318: Causes serious eye damage; H351: Suspected of causing cancer; H360: May damage fertility or the unborn child; H373: May cause damage to organs (blood, kidney, liver) through prolonged or repeated exposure if swallowed	>=23-<=26
Glycerin	56-81-5	Not classified	>=5-<=10

4. First aid measures

4.2

4.3

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.
Most important s	ymptoms 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.
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.

5. Firefighting measures

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		

6. Accidental release measures

6.1	Personal precautions, protective equipment and emergency procedures Spill area may be slippery. Wear appropriate protective equipment (See Section 8).		
6.2			
Do not flush into surface water or sanitary sewer system			
6.3 Methods and material for containment and cleaning up		erial 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

7.	Handling and storage			
7.1	Precautions for safe handling			
	Technical measures:	Does not require any specific or particular measures		
	Advice on safe handling and usage:	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, includ	ing 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			

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 he 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
Diethanolamine,	TWA	2 mg/m3; skin	ACGIH Threshold Limit Values (TLV)
CAS#111-42-2		-	

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.		
Personal protective equipment		
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.		
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.		
Wear chemical splash goggles.		
Wear footwear protecting against chemicals, and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.		
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.		
 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.		
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.		

Physical and chemical properti
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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

information on basic physical and c	nennear 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

10. Stability and reactivity

101	
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

11. Toxicological information

Product Summary:

Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure if swallowed. Toxic to aquatic life.

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 LD50 <i>Rat</i> 1,600mg/kg (diethanolamine)
Acute dermal:	Prolonged skin contact is unlikely to result in absorption of harmful amounts. LD50 <i>Rabbit</i> > 8,200 mg/kg (diethanolamine)
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. LC0, <i>Ra</i> t, 4 Hour, dust/mist, 3.35 mg/l No deaths occurred at this concentration (diethanolamine)
Acute toxicity (other routes of administration):	No information available

	Skin cor	rosion/irritation Skin irritation:		Causes skin irritation
	Serious	eye damage/eye irritation		
		Eye irritation:		Causes serious eye irritation
	-	ory or skin sensitization Sensitization:		Not classified as sensitizing by skin contact
	Mutagen	Genotoxicity in vitro: Genotoxicity in vivo:		No information available No information available
	Carcino	genicity Carcinogenicity:		Findings from a chronic diethanolamine skin painting study by NTP include liver
				and kidney tumors in mice; no tumors were observed in rats. Mechanistic studies indicate that tumor formation is of questionable relevance to humans. A number of factors may have influenced the results and are being considered in their interpretation. IARC Group 2B: Possibly carcinogenic to humans (diethanolamine) ACGIH A3: Confirmed animal carcinogen with unknown relevance to humans (diethanolamine)
	-	for reproduction and develo Toxicity to reproduction/fertilit Developmental toxicity/terato	y: genicity:	May damage fertility or unborn child May damage fertility or unborn child
	Specific	Target Organ Toxicity (STO	F)	
		STOT-single exposure: STOT-repeated exposure:		No information available No information available
	Aspiratio	on toxicity Aspiration toxicity:		Based on physical properties, not likely to be an aspiration hazard
.		Application toxicity.		
Other Ha	azards	Description		
Eyes Skin		Causes serious eye irritation.		s may include pain, burning sensation, redness, watering, blurred vision. tion with local redness. May cause more severe response if skin is scratched or
Ingestion	ı			a, and/or feeling of general unwellness. May cause damage to organs (blood,
Inhalation		• •		ated exposure if swallowed. / volatility. Symptoms may include coughing and difficulty breathing.
Sensitiza	ation	No known effects.		
12.	Ecologic	cal information		
12.1	Toxicity			
12.2	Aquatic t	oxicity: nce and degradability	Toxic to	aquatic life.
12.2	Biodegra		No inforr	nation available
12.3		mulative potential coefficient: n-octanol/water:	No bioac	cumulation is to be expected (log Pow<=4)
40.4	Bioconce	entration factor (BCF):		nation available
12.4	Mobility Known d	istribution to		
12.5		iental compartments: of PBT and vPvB assessmen		nation available
12.5	No inform	nation available	it.	
12.6	Other adverse effects 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.	Disposa	l considerations		
13.1			te code should be assigned in discussion between the user, the producer and the	
	Product o Packagin		Observe	all applicable federal, state, and local regulations all residue when emptying
14.	Transpo	rtation information		
	DOT Haz	zard Classification:	UN prop (Contain Transpor	per: 3082 er shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. s Diethanolamine) t hazard class(es): 9 group (if applicable): III

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; FIFRA Inert Ingredient
Canada	DSL	Listed or in compliance with the requirements the inventory
Mexico	INSQ	Listed or in compliance with the requirements the inventory
EU	EINECS	Listed or in compliance with the requirements the inventory; 271-657-0
Australia	AICS	Listed or in compliance with the requirements the inventory
China	IECSC	Listed or in compliance with the requirements the inventory
Japan	ENCS	Listed or in compliance with the requirements the inventory; 8-311
Korea	ECL	Listed or in compliance with the requirements the inventory; KE-03192, KE-06169
New Zealand	NZIoC	Listed or in compliance with the requirements the inventory
Philippines	PICCS	Listed or in compliance with the requirements the inventory

OSHA Hazard Communication Standard (26 CFR 1910.1200): Hazardous

CERCLA Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Diethanolamine	111-42-2	>=23-<=25	100 lbs	
SARA/EF	PCRA Extremely Haza	ardous Substances (302	/304)	
Ingredient(s)	CAS#	Weight	RQ	TPQ
Diethanolamine	111-42-2	>=23-<=25		
SARA Ha	azard Categories (311	/312)		
Fire	Reactive	Acute health	Chronic health	
		hazard	hazard	
No	No	Yes	No	
SARA To	oxic Substances (313)) The following componen	ts are subject to SARA S	Section 313 reporting requireme
Ingredient(s)	CAS#	Weight		
Not listed				
CAA (31	1) Volatile Organic con	npounds		
Ingredient(s)	CAS#	Weight		
Diethanolamine	111-42-2	>=23-<=25		
State reg	Julations			
California	Prop 65 Components	. Carcinogens & Reprodu	ctive Toxicity (CRT)	
	Coconut oil diethanola	amides CAS#68603-42-9;	Diethanolamine CAS#1	11_42_2

Coconut oil diethanolamides CAS#68603-42-9; Diethanolamine CAS#111-42-2 Massachusetts Right To Know Components Diethanolamine CAS#111-42-2 Minnesota Employee Right To Know Coconut oil diethanolamides CAS#68603-42-9; Diethanolamine CAS#111-42-2 New Jersey Right To Know Components Diethanolamine; Ethanol, 2,2'-iminobis- CAS#111-42-2 New York Right To Know Components Diethanolamine CAS#111-42-2 Pennsylvania Right To Know Components Ethanol, 2,2'-iminobis- CAS#111-42-2 Rhode Island Right To Know Components Diethanolamine CAS#111-42-2

15.2 Other regulations

No information available

16. Other information

NFPA-Classification		HMIS-Classification	HMIS-Classification		
Health	2 moderate	Health	2 moderate		
Flammability	1 slight	Flammability	1 slight		
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant		
		HMIS PPE	В		
		B=Safety glasses, Glove	S		

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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