

## SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

Chemical Name	Mixture
Trade name	NAXAMIDE® CD-231
CAS No.	Mixture

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

Identified use(s)	surfactant
Uses advised against	None

**Details of the supplier of the safety data sheet**

Company Identification	Nease Co. LLC 10740 Paddys Run Road Harrison, OH 45030
Telephone	(513) 738-1255
Telephone (Product Information)	(888) 762-7373
Fax	(513) 587-2828
E-Mail (competent person)	techservice@neaseco.com

**Emergency telephone number**

Emergency Phone No.	(513) 738-1255 CHEMTREC 24 hr. (800) 424-9300
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### SECTION 2: HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

OSHA HCS (29 CFR 1910.1200)	Eye Dam. 1; Skin Irrit. 2; STOT RE 2
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**Label elements**

Hazard Symbol



**DANGER**

Signal word(s)

Hazard statement(s)

Causes serious eye damage.  
Causes skin irritation.  
May cause damage to organs through prolonged or repeated exposure.  
(Organs: Liver, Kidneys, Blood)

Precautionary statement(s)

Wear eye/face protection. Wash hands and exposed skin after use.  
Do not breathe mist/vapours/spray.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.  
IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

**Other hazards**

Toxic to aquatic life.  
Harmful to aquatic life with long lasting effects.  
Not classified as PBT or vPvB.

**Additional Information**

None.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredient(s)	%W/W	CAS No.	Hazard statement(s)
Coco diethanolamide	73 - 75	68603-42-9	Causes skin irritation. Causes serious eye damage. Toxic to aquatic life.
Diethanolamine	25 - 27	111-42-2	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause damage to organs through prolonged or repeated exposure. (Organs: Liver, Kidneys, Blood) Harmful to aquatic life with long lasting effects.

Additional Information - None

## SECTION 4: FIRST AID MEASURES



### Description of first aid measures

Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, administer oxygen. If breathing has stopped, apply artificial respiration.
Skin Contact	Wash affected skin with plenty of water. Continue to wash the affected area for at least 15 minutes. If irritation (redness, rash, blistering) develops, get medical attention.
Eye Contact	Immediately flush eyes for at least 15 minutes. Hold eye open and rinse slowly and gently with water. Continue rinsing. Get immediate medical attention.
Ingestion	Drink two glasses of water. Call a physician. If swallowed, and the victim is conscious and alert, induce vomiting immediately, as directed by medical personnel.

**Most important symptoms and effects, both acute and delayed** None

**Indication of any immediate medical attention and special treatment needed** None

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing media

-Suitable Extinguishing Media	Extinguish with waterspray, dry chemical, sand or carbon dioxide or foam.
-Unsuitable Extinguishing Media	None anticipated.

**Special hazards arising from the substance or mixture** None anticipated.

**Advice for fire-fighters** Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures** Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist/vapours/spray.

**Environmental precautions** Do not allow to enter drains, sewers or watercourses.

**Methods and material for containment and cleaning up**

Contain spillages with sand, earth or any suitable adsorbent material. Transfer to a container for disposal or recovery. Wash the spillage area with water. If possible prevent water running into sewers.

**Reference to other sections  
Additional Information**

None  
None

## SECTION 7: HANDLING AND STORAGE

**Precautions for safe handling**

Do not get in eyes. Do not breathe mist/vapours/spray.

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

-Storage Temperature

Store at room temperature. Prevent from freezing. This product should be stored at a temperature below: 48.8°C (120°F).

-Incompatible materials

Keep container tightly closed and dry.

**Specific end use(s)**

surfactant

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational exposure limits**

SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)		STEL (ppm)		Note:
		PEL (OSHA)	TLV (ACGIH)	PEL (OSHA)	TLV (ACGIH)	
Diethanolamine	111-42-2	-----	1 mg/m3	-----	-----	IFV

IFV = Inhalable Fume and Vapor

**Recommended monitoring method**

None

**Exposure controls**

**Appropriate engineering controls**

Not normally required.

**Personal protection equipment**

Eye/face protection

Goggles giving complete protection to eyes.



Skin protection (Hand protection/ Other)

The following to be used as necessary:Gloves (Neoprene or Natural rubber).



Respiratory protection

No personal respiratory protective equipment normally required.



Thermal hazards

Not normally required.

**Environmental Exposure Controls**

Do not allow to enter drains, sewers or watercourses.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber.
Odour	Mild Amine.
Odour Threshold (ppm)	Not available.
pH (1% aqueous solution)	9.0 – 11.0
Melting Point (°C) / Freezing Point (°C)	Not available.
Boiling point/boiling range (°C):	Not available.
Flash Point (°C)	>93 (200 °F)
Evaporation rate (butyl acetate=1)	< 0.1
Flammability (solid, gas)	Not applicable.
Explosive limit ranges	Not available.
Vapour Pressure (Pascal)	133 (< 1 mmHg)
Vapour Density (Air=1)	3.6 (diethanolamine)
Density (g/ml)	0.999 (8.34 lb/gal)
Solubility (Water)	Soluble
Solubility (Other)	Not available.
Partition Coefficient (n-Octanol/water)	Not available.
Auto Ignition Temperature (°C)	Not available.
Decomposition Temperature (°C)	Not available.
Kinematic Viscosity (cSt) @ 40°C	Not available
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
<b>Other information</b>	Not available.

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	Stable.
<b>Possibility of hazardous reactions</b>	None anticipated.
<b>Conditions to avoid</b>	Incompatible materials.
<b>Incompatible materials</b>	Keep away from oxidizing agents and Acids. Corrosive to Copper and Copper alloys
<b>Hazardous Decomposition Product(s)</b>	Carbon monoxide, Carbon dioxide

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation, Skin Contact, Eye Contact

### Substances in preparations / mixtures

Coco diethanolamide (CAS# 68603-42-9)

<b>Acute toxicity</b>	Oral: LD50 >5000 mg/kg (rat) Dermal: LD50 > 2000 ml/kg (rabbit) 24 hour(s)
<b>Irritant</b>	Serious eye damage/irritation; Causes skin irritation.
<b>Sensitization</b>	It is not a skin sensitizer.
<b>Repeated dose toxicity</b>	No data
<b>Mutagenicity</b>	Negative
<b>Reproductive toxicity</b>	No data
<b>Carcinogenicity</b>	Probably not carcinogenic to humans.

NTP	IARC	ACGIH	OSHA
Yes	2B	No.	No.

Other information

NTP and IARC cancer classifications based on the presence of diethanolamine (see below)

Diethanolamine (CAS# 111-42-2)

**Acute toxicity**

Oral: LD50 = 1600 mg/kg (rat)  
Dermal: No data

**Irritant**

Serious eye damage/irritation; Causes skin irritation.

**Sensitization**

It is not a skin sensitizer.

**Repeated dose toxicity**

LOAEL = 25 mg/kg-bw (rat), 13 week(s), oral, Blood disorders, Kidneys

**Mutagenicity**

Negative

**Reproductive toxicity**

Negative

**Carcinogenicity**

Probably not carcinogenic to humans.

NTP	IARC	ACGIH	OSHA
Yes	2B	No.	No.

Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

**Toxicity - Substances in preparations / mixtures**

Coco diethanolamide (CAS# 68603-42-9)

Short term

LC50 (96 hour): 6.7 mg/l (*fish*)  
EC50 (48 hour): 2.15 - 3.3 mg/l (*Daphnia magna*, mobility)

Long Term

No data

**Persistence and degradability**

Biodegradable (>70% in 28 days)

**Bioaccumulative potential**

Not available.

**Mobility in soil**

Not available.

**Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**Other adverse effects**

None known.

Diethanolamine (CAS No. 111-42-2)

Short term

LC50 (96 hour): 1460 mg/l (*Pimephales promelas*)  
EC50 (48 hour): 30.1 mg/l (*Ceriodaphnia dubia*, mobility)

Long Term

NOAEC (21-day): 0.78 mg/l (*Daphnia magna*, reproduction)  
LOAEC (21-day): 1.56 mg/l (*Daphnia magna*, reproduction)

**Persistence and degradability**

Readily biodegradable

**Bioaccumulative potential**

Not available.

**Mobility in soil**

Not available.

**Results of PBT and vPvB assessment**

Not classified as PBT or vPvB.

**Other adverse effects**

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste treatment methods**

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**Additional Information**

None known.

## SECTION 14: TRANSPORT INFORMATION

	Land transport (U.S. DOT)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	3082	----	----
Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s., RQ (Diethanolamine)	Not classified as dangerous for transport.	Not classified as dangerous for transport.
Transport hazard class(es)	9		
Packing group	III		
Hazard label(s)	Marine pollutant		
Environmental hazards	yes		
Special precautions for user	None known.	None known.	None known.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not established.

## SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Canada Domestic Substance List (DSL) - Listed

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)
Diethanolamine	111-42-2	25 - 27	100

SARA 311/312 - Hazard Categories:

Fire   
  Sudden Release   
  Reactivity   
  Immediate (acute)   
  Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.
Diethanolamine	111-42-2	25 - 27

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.
None	-----	----

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: August 13, 2014

Additional Information:



HMIS (Hazardous Material Information System)



NFPA (National Fire Protection Association)

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