

CALAMIDE® F**1. PRODUCT AND COMPANY IDENTIFICATION**

Product name CALAMIDE® F
Company Address 2744 East Kemper Road
Cincinnati, Ohio 45241
Emergency Telephone Number Chemtrec 1-800-424-9300
Pilot Chemical Corporate Office 1-513-326-0600

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	OSHA PEL
9-Octadecenoic acid (Z)-, compound with 2,2'-iminobis[ethanol] (1:1)	13961-86-9	46	-
Diethanolamide of linoleic acid	56863-02-6	46	-
Diethanolamine	111-42-2	8	TWA: 15 mg/m ³ TWA: 3 ppm

3. HAZARDS IDENTIFICATION

Emergency Overview Irritant

Potential Health Effects

Eyes Irritating to eyes.
Skin Substance may cause slight skin irritation.
Inhalation May cause irritation of respiratory tract
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic effects No information available

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If symptoms persist, call a physician

Inhalation Move to fresh air. If symptoms persist, call a physician

Ingestion Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician.

5. FIRE-FIGHTING MEASURES

Flammable Properties No information available.

Flammable Limits Not Determined.

Hazardous Combustion Products Oxides of carbon. Oxides of nitrogen.

SPECIAL FIRE FIGHTING PROCEDURES

Method Water mist may be used to cool closed containers.

Suitable Extinguishing Media Water spray. Carbon dioxide (CO2). Foam.

Unusual Fire & Explosive Hazards None

6. ACCIDENTAL RELEASE MEASURES

Small Spillages Recover all usable material. Soak up balance with sand or dirt.

Large Spillages In case of a large spill by truck, use small spill procedure and a vacuum truck. Call CHEMTREC at 1-800-424-9300.

7. HANDLING AND STORAGE

Handling Material tends to gel when hit with a stream of water .

Storage Store above 45 °F . Store away from strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures Ensure adequate ventilation, especially in confined areas

Eye/Face Protection Tightly fitting safety goggles. If splashes are likely to occur, wear a face-shield

Skin Protection Wear protective gloves/clothing

Respiratory Protection No special protective equipment required, unless workers are exposed to concentrations above the exposure limit

Component	ACGIH TLV	OSHA PEL	OSHA PEL (Ceiling)	OSHA PEL - Skin Notations
Diethanolamine	TWA: 2 mg/m ³ Skin	TWA: 15 mg/m ³ TWA: 3 ppm		

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point/Range	>300° F (>149° C)
Vapor Pressure	5 mm Hg @ 280°F (138°C)
Volatile Weight %	60 (Water)
Water Solubility	Slightly soluble
Specific Gravity	0.98
pH	9.5 at 1% in water
Odor	Mild detergent odor
Appearance	Light yellow
Physical State	Liquid

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Unsuitable Materials	Strong oxidizing agents.
Conditions to Avoid	Strong oxidizers.
Hazardous Decomposition Products	None under normal use
Hazardous Polymerization	No information available

11. TOXICOLOGICAL INFORMATION

Eyes	Eye Irritation
Skin	Skin Irritation
Ingestion	Unknown
Inhalation	Unknown
Chronic Toxicity	No information available
Carcinogenicity	Product is not listed.
Hazard Type	Skin/Eye Irritant.

12. ECOLOGICAL INFORMATION

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Diethanolamine			EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h EC50 > 16 mg/L 16 h	EC50 = 55 mg/L 48 h

Ecotoxicity effects	No information available
Chemical Fate	This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of contents/container in accordance with local regulation. Should not be released into the environment
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14. TRANSPORT INFORMATION

The following transportation descriptions are for transportation of materials in quantities above the RQ. All quantities below the RQ are non-regulated.

DOT

Proper shipping name	Environmentally hazardous substances,liquid,n.o.s.
Hazard class	9
UN-No	UN3082
Packing Group	III
Reportable Quantity (RQ):	Diethanolamine, RQ kg = 567.5
Description	UN3082, Environmentally hazardous substances,liquid,n.o.s.(diethanolamine),9,PG III,RQ

ICAO

UN-No	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.,9,PG III

IATA

UN-No	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
Packing Group	III
ERG Code	9L
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.,9,PG III

IMDG/IMO

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
UN-No	UN3082
Packing Group	III
EmS No.	F-A, S-F
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.,9,PG III

RID

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
UN-No	UN3082
Packing Group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.,9,III,RID
ADR/RID-Labels	9

ADR

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Hazard Class	9
UN-No	UN3082
Packing Group	III
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.,9,III,ADR
ADR/RID-Labels	9

15. REGULATORY INFORMATION
International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
9-Octadecenoic acid (Z)-, compound with 2,2'-iminobis[ethanol] (1:1)	X	X	-	X	-	X	X	X	X	X
Diethanolamide of linoleic acid	X	X	-	X	-	X	X	X	X	X
Diethanolamine	X	X	-	203-868-0	-	X	X	KE-20959	X	X

USA
Federal Regulations
SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Diethanolamine (CAS# 111-42-2)

SARA 311/312 Hazardous Categorization

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following HAPs:

Diethanolamine (CAS #: 111-42-2)

16. OTHER INFORMATION

Revision Date 07/31/2009

Prepared by Donna M. Mellon

Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.