

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 1

Substance key: SXR081950
Version : 1 - 5 / USARevision Date: 08/07/2008
Date of printing :08/10/2008**Section 01 - Product Information****Identification of the company:**Clariant Corporation
4000 Monroe Road
Charlotte, NC, 28205
Telephone No.: +1 704-331-7000**Information of the substance/preparation:**

Product Safety 1-704-331-7710

Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name: GENAPOL UD 070

CAS number: 127036-24-2

Synonyms: Product Has No Synonyms

Primary product use: Raw material for detergents

Chemical family: Fatty alcohol polyglycol ether.

Section 02 - Composition information on hazardous ingredients**Hazardous ingredients:**

Component	CAS-no. (Trade secret no.)	Concentration
Ethoxylated Undecyl Alcohol	127036-24-2	100 %

Section 03 - Hazards identification

Emergency overview: clear colorless to light yellow liquid
Eye irritant.

Expected Route of entry:

Inhalation: Not expected to be irritating to the respiratory tract.

Skin contact: Not expected to be irritating to skin.

Eye contact: Causes severe eye irritation

Ingestion: The acute oral toxicity of this material is between 500 and 5000 mg/kg. Relative to other materials, this material is classified as slightly toxic by ingestion.

Skin absorption: no

Health effects of exposure:Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-, branched and linear (127036-24-2)
Causes severe irritation to the eyes, possibly resulting in eye damage.

Genapol UD 070

Based on animal studies with a product of similar composition, this product is expected to be a non-irritant to skin and a severe irritant to eyes, possibly resulting in eye damage.

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 2

Substance key: SXR081950
Version : 1 - 5 / USARevision Date: 08/07/2008
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Known effects on other illnesses: Pre-existing eye conditions may be aggravated by exposure to this product.

Listed carcinogen: IARC: No
NTP: No
OSHA: No
Other: No

HMIS:

Health: 2	Flammability: 1	Reactivity: 0	Personal protection: D
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Section 04 - First aid measures**After inhalation:**

Get victim to fresh air. Give artificial respiration or oxygen if breathing has stopped. Get prompt medical attention. Do not give fluids if victim is unconscious.

After contact with skin:

Immediately flush skin with plenty of water while removing contaminated clothing. Wash contaminated clothing before reuse. If redness or irritation occurs, seek medical attention.

After contact with eyes:

Immediately flush eyes with large amounts of water for at least 15 minutes, holding lids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately.

After ingestion:

If conscious, give the patient 1-2 glasses of water (8-16 oz.) and call a doctor. Never give anything by mouth to an unconscious person. Induce vomiting only at the instructions of a doctor or nurse.

Advice to doctor / Treatment:

None known.

Section 05 - Fire fighting measures

Flashpoint: approx. 356 °F
Method: DIN/ISO 2592 (open cup)

Lower explosion limit: not tested.

Upper explosion limit: not tested.

Self ignition: Not applicable

Ignition temperature: not tested.

Hazardous combustion products:

Combustion gases of organic materials must in principle be graded as inhalation poisons.

Extinguishing media: water spray jet
alcohol-resistant foam
carbon dioxide
dry powder

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 3

Substance key: SXR081950
Version : 1 - 5 / USARevision Date: 08/07/2008
Date of printing :08/10/2008**Special fire fighting procedure:**

Apply alcohol-type or all purpose-type foams by manufacturers' recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires. Do not direct a solid stream of water or foam into hot burning pools; this may cause frothing and increase fire intensity. Use self-contained breathing apparatus and protective equipment.

Unusual fire and explosion hazards:

Emits toxic fumes under fire conditions. Product floats on water creating a potential floating fire hazard..

Section 06 - Accidental release measures**Steps to be taken in case of spill or leak:**

Wearing appropriate personal protective equipment, contain spill, collect into suitable container. For large spills, contain spills with dikes of soil or commercially available diking material and collect into suitable containers for disposal. Avoid washing spills into sewers and waterways. This product is toxic to fish in concentrations of 1 to 10 mg/l.

Section 07 - Handling and storage**Advice on safe handling:**

Avoid getting on skin or in eyes when handling product.

Further info on storage conditions:

Keep containers closed.

Section 08 - Exposure controls / personal protection**Respiratory protection:**

If airborne concentrations pose a health hazard, become irritating or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29 CFR 1910.134

Hand protection:

Butyl Rubber, PVC Or Neoprene.

Eye protection:

Chemical splash goggles.

Other protective equipment:

Protective clothing to minimize skin contact should be worn. Chemically resistant safety shoes. Wash contaminated clothing with soap and water and dry before reuse. Safety showers and eyewash stations should be provided in all areas where this material is handled.

Advice on system design:

Local ventilation recommended - mechanical ventilation may be used.

IDLH:

None

Section 09 - Physical and chemical properties**Form:**

Liquid

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 4

Substance key: SXR081950
Version : 1 - 5 / USARevision Date: 08/07/2008
Date of printing :08/10/2008

Color:	colourless to slightly yellow
Odor:	slight, original odour
pH:	6 - 8 (20 °C, 10 g/l) Method: DIN 53996
Solubility in water:	(20 °C) soluble, clear
Soluble in ... :	fat not tested.
Density:	0.97 g/cm ³ (50 °C) Method: DIN 51757
Pourpoint :	approx. 55 °F Method: DIN/ISO 3016
Boiling point :	not determined
Vapor pressure:	not tested.
Bulk density:	Not applicable
Relative vapor density:	not tested.
Partitioning coef. octanol/water:	Not applicable
Viscosity / (dynamic):	approx. 20 mPa.s (50 °C) Method: DIN 53015
Viscosity / (kinematic):	not tested.

Section 10 - Stability and reactivity

Thermal decomposition:	> 300 °C Method: DSC Source: Analogy No decomposition if used as prescribed.
Chemical stability:	Stable.
Hazardous Polymerization:	Will not occur.
Conditions to avoid:	Strong acids, oxidizers, and strong bases.

Section 11 - Toxicological information

Product information:	
Acute oral toxicity:	LD50 200 - 2,000 mg/kg (rat) Source: CESIO
Acute inhalation toxicity:	not tested.
Acute dermal toxicity:	not tested.
Skin irritation:	Non-irritating (rabbit)

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 5

Substance key: SXR081950
Version : 1 - 5 / USARevision Date: 08/07/2008
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Biodegradation: > 80 %
Method: OECD 302 B
Source: Analogy

Biodegradation: > 90 % (28 d)
Method: OECD 301 E
Source: Analogy

Fish toxicity: LC50 1 - 10 mg/l (96 h, zebra fish)
Method: OECD 203
Source: Analogy

Daphnia toxicity: not tested.

Algae toxicity: not tested.

Bacteria toxicity: EC50 100 - 1,000 mg/l
Method: OECD 209
Source: Analogy

Dissolved organic carbon (DOC): 480 mg/g

Chemical oxygen demand (COD): 2,070 mg/g

Remarks:

By analogy with a product of similar composition
Do not allow to enter soil, waterways or waste water

Section 13 - Disposal considerations**Waste disposal information:**

Recommended disposal is by incineration in approved facilities.

RCRA hazardous waste:

No -- Not as sold.
RCRA number: NONE

Section 14 - Transport information

DOT not restricted

IATA not restricted

IMDG not restricted

Section 15 - Regulatory information

MATERIAL SAFETY DATA SHEET

GENAPOL UD 070

Substance key: SXR081950
Version : 1 - 5 / USA

Revision Date: 08/07/2008
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TSCA Status:

All components of this product are listed on the TSCA Inventory.

SARA (section 311/312):

Reactive hazard:	no
Pressure hazard:	no
Fire hazard:	no
Immediate/acute:	yes
Delayed/chronic:	no

SARA 313 information:

This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act:

Contains no known priority pollutants at concentrations greater than 0.1%.

Volatile organic compounds VOC:

Remarks: Not Available

FDA:

This product is not registered with the FDA.

Section 16 - Other information

Other precautions:

This product may contain trace amounts of Ethylene Oxide (75-21-8) which may accumulate in the headspace of shipping and storage containers and in enclosed areas where the product is handled or used and as such may be regulated by OSHA's Ethylene Oxide standard (29 CFR 1910.1047). Ethylene Oxide is listed as a human carcinogen by OSHA; and a potential human carcinogen by NTP and IARC. At excess levels, Ethylene Oxide may present reproductive, mutagenic, genotoxic, neurologic, and sensitization hazards in humans. Users should monitor personnel to determine levels of exposure and take appropriate action to protect employees and to comply with the OSHA standard. OSHA Ethylene Oxide exposure limit: OSHA Action level: 0.5 ppm for 8-hr twa. OSHA Permissible Exposure limit: 1 ppm for 8-hr twa. OSHA Excursion limit: 5 ppm for 15 minutes. ACGIH Threshold Limit value for Ethylene Oxide: 1 ppm for 8-hr twa.

Label information:

WARNING!

CAUSES SEVERE EYE IRRITATION MAY CAUSE EYE DAMAGE

Avoid breathing fumes, vapors, mists or spray. Avoid contact with skin and eyes. Use with adequate ventilation and/or respiratory protection. Wash thoroughly after handling. Keep container closed when not in use.

Eye contact: immediately flush eyes with large amounts of water for at least 15 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing eyes within 1 minute is essential to achieve maximum effectiveness. Seek medical attention immediately. Skin contact: remove contaminated clothing. Wash thoroughly with soap and water for 15 minutes. If contact has been widespread or prolonged, or if irritation

MATERIAL SAFETY DATA SHEET
GENAPOL UD 070

Page 7

Substance key: SXR081950
Version : 1 - 5 / USA

Revision Date: 08/07/2008
Date of printing :08/10/2008

occurs, seek medical attention. Wash clothing before reuse. Ingestion: do not induce vomiting. Seek immediate medical assistance. Inhalation: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and seek medical attention.

This information is supplied under the OSHA Hazard Communication Standard, 29 CFR 1910.1200, and is offered in good faith based on data available to us that we believe to be true and accurate. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable to the material. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate for that use. No warranty, express or implied, is made regarding the accuracy of this data, the hazards connected with the use of the material, or the results to be obtained from the use thereof. We assume no responsibility for damage or injury from the use of the product described herein. Data provided here are typical and not intended for use as product specifications. (R) and TM indicate trademarks of Clariant AG, its business partners or suppliers.