

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 1

Substance key: SXR023973  
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 050

**CAS number:** 127036-24-2

**Synonyms:** Product Has No Synonyms

**Primary product use:** Raw material for detergents

**Chemical family:** A fatty alcohol polyglycol ether.

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

Component	CAS-no. (Trade secret no.)	Concentration
Genapol UD-050		100 %

**Section 03 - Hazards identification****Expected Route of entry:**

**Inhalation:** no

**Skin contact:** no

**Eye contact:** yes

**Ingestion:** no

**Skin absorption:** no

**Health effects of exposure:**

Genapol UD 050

Based on animal studies, this product causes no irritation to skin and severe irritation to eyes; prolonged contact may result in eye damage.

**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

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 2

Substance key: SXR023973  
Version : 1 - 5 / USARevision Date: 08/07/2008  
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Health: 2

Flammability: 1

Reactivity: 0

Personal protection: D

**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 ingested, seek medical assistance immediately.

**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:**

In the event of fire the following can be released:

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

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

**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..

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 3

Substance key: SXR023973  
Version : 1 - 5 / USARevision Date: 08/07/2008  
Date of printing :08/10/2008**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
- Color:** whitish, cloudy
- Odor:** slight, original odour
- pH:** 6 - 8 (20 °C, 50 g/l)  
Method: DIN 53996  
Ethanol/Water 1:1

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 4

Substance key: SXR023973  
Version : 1 - 5 / USARevision Date: 08/07/2008  
Date of printing :08/10/2008

<b>Solubility in water:</b>	(20 °C) soluble, turbid
<b>Soluble in ... :</b>	fat not tested.
<b>Density:</b>	0.93 g/cm <sup>3</sup> (50 °C) Method: DIN 51757
<b>Pourpoint :</b>	approx. 50 °F Method: DIN/ISO 3016
<b>:</b>	not determined
<b>Vapor pressure:</b>	not tested.
<b>Bulk density:</b>	Not applicable
<b>Relative vapor density:</b>	not tested.
<b>Partitioning coef. octanol/water:</b>	Not applicable
<b>Viscosity / (dynamic):</b>	approx. 20 mPa.s (50 °C) Method: DIN 53015
<b>Viscosity / (kinematic):</b>	not tested.

**Section 10 - Stability and reactivity**

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

**Section 11 - Toxicological information**

<b>Product information:</b>	
<b>Acute oral toxicity:</b>	LD <sub>50</sub> > 2,000 mg/kg (rat) Method: OECD 401
<b>Acute inhalation toxicity:</b>	not tested.
<b>Acute dermal toxicity:</b>	not tested.
<b>Skin irritation:</b>	Non-irritating (rabbit)
<b>Eye irritation:</b>	Severe irritant (rabbit)

**Section 12 - Ecological information****Product information:**

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 5

Substance key: SXR023973  
Version : 1 - 5 / USARevision Date: 08/07/2008  
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<b>Biodegradation:</b>	> 80 % Method: OECD 302 B
<b>Biodegradation:</b>	91 % (28 d) good degradability Method: OECD 301 E
<b>Fish toxicity:</b>	LC50 1 - 10 mg/l (96 h, zebra fish) Method: OECD 203
<b>Daphnia toxicity:</b>	not tested.
<b>Algae toxicity:</b>	not tested.
<b>Bacteria toxicity:</b>	EC50 100 - 500 mg/l (3 h, activated sludge) Method: OECD 209
<b>Dissolved organic carbon (DOC):</b>	500 mg/g
<b>Chemical oxygen demand (COD):</b>	2,180 mg/g

**Remarks:**

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**

<b>DOT</b>	not restricted
<b>IATA</b>	not restricted
<b>IMDG</b>	not restricted

**Section 15 - Regulatory information****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

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Substance key: SXR023973  
Version : 1 - 5 / USA

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**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:**

Content VOC (g/l): 238 g/l

**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: flush with water for at least 15 minutes while holding eyelids open. Seek immediate 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

**MATERIAL SAFETY DATA SHEET**  
**GENAPOL UD 050**

Page 7

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Substance key: SXR023973  
Version : 1 - 5 / USA

Revision Date: 08/07/2008  
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