

GENAPOL LA 070 S

Page 1

Substance key: CLT200068-V1
Version : 3 - 0 / USA

Revision Date: 01/28/2019
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SECTION 1. IDENTIFICATION

Identification of the company:	Clariant Corporation 4000 Monroe Road Charlotte, NC, 28205 Telephone No.: +1 704 331 7000
	Information of the substance/preparation: BU Industrial & Consumer Specialties Product Stewardship, +1-704-331-7710
	Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:	GENAPOL LA 070 S
Material number:	195472
CAS number:	68551-12-2
Synonyms:	Alkyloxypolyethyleneoxyethanol Alcohol Polyether
Formula:	Mixture
Primary product use:	Raw material for detergents
Chemical family:	Ethoxylated Fatty Alcohol

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.
H318 Causes serious eye damage.Precautionary statements : **Prevention:**
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear eye protection/ face protection.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

GENAPOL LA 070 S

Page 2

Substance key: CLT200068-V1
Version : 3 - 0 / USA

Revision Date: 01/28/2019
Date of printing :03/06/2019

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/doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance
Substance name : Ethoxylated Fatty Alcohol
CAS-No. : 68551-12-2

Hazardous components

Chemical name	CAS-No.	Concentration (% w/w)
Ethoxylated C12-16 Alcohols	68551-12-2	60 - 100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

General advice : Remove/Take off immediately all contaminated clothing.

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.
Never give anything by mouth to an unconscious person.

In case of skin contact : Wash thoroughly with soap and water for 15 minutes. If skin irritation occurs, seek medical attention.

In case of eye contact : 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.

If swallowed : 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.

Most important symptoms and effects, both acute and delayed : corrosive effects
Damage
The possible symptoms known are those derived from the labelling (see section 2).

GENAPOL LA 070 S

Page 3

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

No additional symptoms are known.

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
Water spray

Unsuitable extinguishing media : High volume water jet

Specific hazards during firefighting : Thermal decomposition may produce:
Carbon oxides

Burning produces noxious and toxic fumes.

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

Further information : 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.

Wear self-contained breathing apparatus and protective suit. Do not use a solid water stream as it may scatter and spread fire.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Wear suitable protective clothing.
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.

Environmental precautions : Do not allow to enter drains or waterways

Methods and materials for containment and cleaning up : Pick up with absorbent material (eg sand, sawdust). Rinse away rest with water

GENAPOL LA 070 S

Page 4

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Observe the general rules of industrial fire protection

Advice on safe handling : Avoid contact with skin and eyes.

Technical measures/Precautions : Keep container closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Engineering measures : Local ventilation recommended - mechanical ventilation may be used.

Personal protective equipment

Respiratory protection : If aerosols, mists, or dusts are generated from the use of this product or in conjunction with spill cleanup or emergency response, use NIOSH /MSHA approved respiratory protection.

Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure

Hand protection
Remarks : Butyl Rubber, PVC Or Neoprene.

Butyl Rubber, PVC Or Neoprene.

Eye protection : Tightly fitting safety goggles
Face-shield

Skin and body protection : 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. Wear suitable protective equipment.

Protective measures : Avoid contact with skin.
Avoid contact with eyes.

Hygiene measures : Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Take off immediately all contaminated clothing.

GENAPOL LA 070 S

Page 5

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid
Colour	:	cloudy
Odour	:	characteristic
Odour Threshold	:	not determined
pH	:	6.0 - 7.5 Concentration: 10 g/l 1 %
Melting point	:	15 °C
Boiling point	:	275 °C
Flash point	:	176 °C
Evaporation rate	:	< 0.1 Butyl Acetate
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	Not applicable
Burning number	:	Not applicable
Upper explosion limit / upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	< 0.01 Torr
Relative vapour density	:	> 1
Density	:	0.97 g/cm ³ (20 °C)
Bulk density	:	Not applicable
Solubility(ies)		
Water solubility	:	miscible, slightly soluble
Solubility in other solvents	:	not tested. Solvent: fat
Partition coefficient: n-octanol/water	:	log Pow: 6
Auto-ignition temperature	:	not tested.

GENAPOL LA 070 S

Page 6

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Decomposition temperature	:	130 °C
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	no data available
Oxidizing properties	:	Not applicable
Dust explosion class	:	not capable of dust explosion
Minimum ignition energy	:	not tested.
Particle size	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use. Stable
Conditions to avoid	:	Strong acids and oxidizing agents Strong bases
Incompatible materials	:	Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	When handled and stored appropriately, no dangerous decomposition products are known

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact
Skin contact
Ingestion
Inhalation

Acute toxicity**Product:**

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

Assessment: The component/mixture is moderately toxic after single ingestion.

GENAPOL LA 070 S

Page 7

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 401
GLP: yes
Remarks: By analogy with a product of similar compositionAcute inhalation toxicity : LC50 (Rat, male and female): > 1.6 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
GLP: no
Remarks: By analogy with a product of similar compositionAcute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: no
Remarks: By analogy with a product of similar composition**Skin corrosion/irritation****Product:**

Species: Rabbit

Result: No skin irritation

Components:**Ethoxylated C12-16 Alcohols:**

Species: Rabbit

Exposure time: 4 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: no

Remarks: By analogy with a product of similar composition

Serious eye damage/eye irritation**Product:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Components:**Ethoxylated C12-16 Alcohols:**

Species: rabbit eye

Result: Eye irritation

Method: OECD Test Guideline 405

GLP: no

GENAPOL LA 070 S

Page 8

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Remarks: By analogy with a product of similar composition

Respiratory or skin sensitisation**Product:**

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Components:**Ethoxylated C12-16 Alcohols:**

Test Type: Guinea pig maximization test

Exposure routes: Dermal

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Not a skin sensitizer.

GLP: yes

Remarks: By analogy with a product of similar composition

Germ cell mutagenicity**Product:**

Germ cell mutagenicity - : No information available.

Assessment

Components:**Ethoxylated C12-16 Alcohols:**

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Concentration: 1,5 - 5000 µg/plate
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes
Remarks: By analogy with a product of similar composition

Test Type: Chromosome Aberration Test
Test system: Chinese hamster ovary cells
Concentration: 5 - 50 µg/ml
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: No information available.
Remarks: By analogy with a product of similar composition

Genotoxicity in vivo : Test Type: Chromosome Aberration Test
Species: Rat (male and female)
Strain: Sprague-Dawley
Cell type: Bone marrow
Application Route: oral (gavage)

GENAPOL LA 070 S

Page 9

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Exposure time: 1 x in 12 - 24 - 48 h
Dose: 375-450-750-900-1500 mg/kg
Method: OECD Test Guideline 475
Result: negative
GLP: No information available.
Test substance: other TS

Germ cell mutagenicity - Assessment : It is concluded that the product is not mutagenic based on evaluation of several mutagenicity tests.

Carcinogenicity**Product:**

Carcinogenicity - Assessment : No information available.

Components:**Ethoxylated C12-16 Alcohols:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : No information available.
No information available.

Components:**Ethoxylated C12-16 Alcohols:**

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Strain: Fischer F344
Application Route: Dermal
Dose: 1-10-25 %(w/v)unit area
Frequency of Treatment: 3 days/week
General Toxicity - Parent: NOAEL: >= 250 mg/kg body weight
General Toxicity F1: NOAEL: >= 250 mg/kg body weight
General Toxicity F2: NOAEL: >= 250 mg/kg body weight
Method: OECD Test Guideline 416
GLP: no
Remarks: By analogy with a product of similar composition

Reproductive toxicity - Assessment : No reproductive toxicity to be expected.
No teratogenic effects to be expected.

GENAPOL LA 070 S

Page 10

Substance key: CLT200068-V1
Version : 3 - 0 / USA

Revision Date: 01/28/2019
Date of printing :03/06/2019

STOT - single exposure**Product:**

Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure**Product:**

Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity**Product:**

Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**

Species: Rat, male and female

NOAEL: 1,000 mg/kg

Application Route: oral (gavage)

Exposure time: 28 d

Number of exposures: daily

Dose: 100 - 500 - 1000 mg/kg

Group: yes

Method: Directive 67/548/EEC, Annex V, B.7.

GLP: yes

Remarks: By analogy with a product of similar composition

Application Route: Inhalation

Remarks: This information is not available.

Application Route: Skin contact

Remarks: This information is not available.

GENAPOL LA 070 S

Page 11

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Aspiration toxicity**Product:**

no data available

Components:**Ethoxylated C12-16 Alcohols:**

No aspiration toxicity classification

Experience with human exposure**Product:**

General Information : The possible symptoms known are those derived from the labelling (see section 2).

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203Toxicity to daphnia and other :
aquatic invertebrates Remarks: no data availableToxicity to algae :
Remarks: no data available

Toxicity to microorganisms : Remarks: no data available

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:**Ethoxylated C12-16 Alcohols:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): 0.876 mg/l
Exposure time: 96 h
Test Type: semi-static test
Analytical monitoring: yes
Method: Directive 67/548/EEC, Annex V, C.1.
GLP: yesToxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.39 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test

GENAPOL LA 070 S

Page 12

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

- Analytical monitoring: no
Method: Tested according to Directive 92/69/EEC.
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.19 mg/l
End point: Biomass
Exposure time: 72 h
Test Type: static test
Analytical monitoring: no
Method: OECD Test Guideline 201
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC (Lepomis macrochirus (Bluegill sunfish)): 0.16 mg/l
Exposure time: 10 d
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.77 mg/l
End point: Reproduction rate
Exposure time: 21 d
Test Type: flow-through test
Analytical monitoring: yes
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition
- Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10,000 mg/l
End point: Bacteria toxicity (growth inhibition)
Exposure time: 16.9 h
Test Type: aquatic
Analytical monitoring: no
Method: DIN 38412
GLP: yes
Remarks: The details of the toxic effect relate to the nominal concentration.
- Toxicity to soil dwelling organisms : Test Type: artificial soil
LC50 (Eisenia fetida (earthworms)): > 1,000 mg/kg
Exposure time: 14 d
End point: mortality
Method: OECD Test Guideline 207
GLP: yes

GENAPOL LA 070 S

Page 13

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal
concentration.

Plant toxicity : NOEC (Triticum aestivm (wheat)): 100 mg/kg
Exposure time: 19 d
End point: emergence
Method: OECD Guide-line 208
GLP: yes

NOEC (Brassica alba (mustard)): 100 mg/kg
Exposure time: 19 d
End point: emergence
Method: OECD Guide-line 208
GLP: yes

NOEC (Lepidium sativum (cress)): 100 mg/kg
Exposure time: 19 d
End point: emergence
Method: OECD Guide-line 208
GLP: yes

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial organisms : Remarks: Not applicable

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Persistence and degradability**Product:**

Biodegradability : Biodegradation: 87 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
Remarks: Readily biodegradable, according to appropriate
OECD test.

Biodegradation: 66 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Components:**Ethoxylated C12-16 Alcohols:**

Biodegradability : aerobic
Inoculum: activated sludge
Concentration: 100 mg ThOD/l
Biochemical oxygen demand

GENAPOL LA 070 S

Page 14

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Result: Readily biodegradable.
Biodegradation: 95 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: no

Physico-chemical removability : Remarks: Readily biodegradable, according to appropriate OECD test.

Stability in water : Remarks: Not applicable

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 12.7 - 237
Exposure time: 24 h
Temperature: 21 °C
Concentration: 0,029 - 0,57 mM
Method: Other
GLP: no
Remarks: By analogy with a product of similar composition
Does not bioaccumulate.

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: no data available

Components:**Ethoxylated C12-16 Alcohols:**

Distribution among environmental compartments : Adsorption/Soil
Medium: water - soil
log Koc: ca. 2.7 - 3.2
Method: estimated

Other adverse effects**Product:**

Additional ecological information : no data available

Components:**Ethoxylated C12-16 Alcohols:**

GENAPOL LA 070 S

Page 15

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

Environmental fate and pathways	:	not available
Results of PBT and vPvB assessment	:	The substance is not identified as a PBT or as a vPvB substance.
Additional ecological information	:	The product should not be allowed to enter drains, water courses or the soil.

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource Conservation and Recovery Act Waste Code	:	No -- Not as sold.
Waste from residues	:	NONE
Waste from residues	:	Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
Contaminated packaging	:	Packaging that cannot be cleaned should be disposed of as product waste

SECTION 14. TRANSPORT INFORMATION**DOT Regulation:**

Proper shipping name:	Environmentally hazardous substances, liquid, n.o.s.
Hazard class:	9
Packing group:	III
UN/NA-number:	UN 3082
Primary hazard class:	9
Technical Name:	Alcohol C12-C16 Poly (1-6) Ethoxylate
Emergency Response Guide:	171

IATA not restricted**IMDG** not restricted**Further information:**

According to 49CFR not regulated for surface or air transportation in non-bulk containers under 119 gallons (liquid) or 882 pounds (solid).
Non-dangerous good of class 9 for packagings <= 5 L / 5 kg

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

GENAPOL LA 070 S

Page 16

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)
Serious eye damage or eye irritation

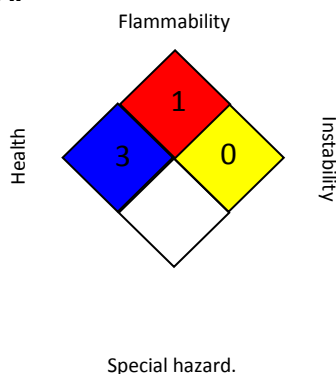
SARA 313 : This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986.

Clean Water Act

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

The components of this product are reported in the following inventories:

TSCA : On TSCA Inventory, All components are compliant with the TSCA Inventory Notification (Active) rule.

SECTION 16. OTHER INFORMATION**Further information****NFPA:****Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019

International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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.

Revision Date : 01/28/2019

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Clariant makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Clariant's products for its particular application. NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. Nothing included in this information waives any of Clariant's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Clariant products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Clariant.

US / EN

SAFETY DATA SHEET



GENAPOL LA 070 S

Page 18

Substance key: CLT200068-V1

Revision Date: 01/28/2019

Version : 3 - 0 / USA

Date of printing :03/06/2019
