

GENAPOL LA 090

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SECTION 1. IDENTIFICATION

Identification of the company:	CLARIANT S/A Av.d.Nacoes Unidas, 18001-Sto.Amaro Sao Paulo - SP, 04795-900 Telephone No.: +55 11 5683 7233
	Information of the substance/preparation: Product Stewardship, +1-704-331-7710
	Emergency tel. number: +1 800-424-9300 CHEMTREC

Trade name:	GENAPOL LA 090
Material number:	191788
CAS number:	68551-12-2
Synonyms:	Product Has No Synonyms
Primary product use:	Emulsifier for the techno-chemical industry
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.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

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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	90 - 100

SECTION 4. FIRST AID MEASURES

General advice : Remove/Take off immediately all contaminated clothing.
Get medical advice/ attention if you feel unwell.

If inhaled : Move the victim to fresh air.
Give oxygen or artificial respiration if needed.
Get immediate medical advice/ attention.

In case of skin contact : Remove contaminated clothing and shoes.
Wash off with soap and plenty of water.
Wash off immediately with plenty of water for at least 15 minutes.
Get medical attention if irritation develops and persists.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
Get immediate medical advice/ attention.

If swallowed : Rinse mouth.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Get medical advice/ attention.

Most important symptoms and effects, both acute and delayed : corrosive effects
Causes serious eye damage.
The possible symptoms known are those derived from the labelling (see section 2).
No additional symptoms are known.

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Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry powder
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fires, hazardous combustion gases are formed:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
- 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.
- 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.
- Special protective equipment for firefighters : Use breathing apparatus.
Wear flame-proof clothes, flame-proof gloves, and, if necessary, flame-proof hood as well as helmet and fire-brigade boots when fighting fire.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Stay upwind/ keep distance from source.
Wear suitable protective equipment.
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 : Pick up with sand or oil absorbing material.

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containment and cleaning up Take up mechanically

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**

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

Components	CAS-No.
Ethoxylated C12-16 Alcohols	68551-12-2

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.

Hand protection

Remarks

: Chemical resistant gloves (butyl rubber, nitrile rubber, polyvinyl alcohol). However, please note that PVA degrades in water.

Butyl Rubber, PVC Or Neoprene.

Eye protection : Tightly fitting safety goggles

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.

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

Hygiene measures : When using do not eat or drink.

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When using do not smoke.
Keep away from food and drink.
Wash hands immediately after work, if necessary take a shower
Keep working clothes separately.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: white
Odour	: characteristic
Odour Threshold	: not determined
pH	: 6 - 8 (20 °C) Concentration: 1 % Isopropanol/Water 3:1
Freezing point	: not determined
Boiling point	: not determined
Flash point	: > 237 °C
Evaporation rate	: not determined
Flammability (solid, gas)	: Not applicable
Self-ignition	: Not applicable
Burning number	: Not applicable
Upper explosion limit / upper flammability limit	: not tested.
Lower explosion limit / Lower flammability limit	: not tested.
Vapour pressure	: not determined
Relative vapour density	: not determined
Density	: 0.97 g/cm ³ (25 °C)
Bulk density	: Not applicable
Solubility(ies)	
Water solubility	: soluble (20 °C)
Solubility in other solvents	: not tested.

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Solvent: fat

Partition coefficient: n-
octanol/water : not determinedAuto-ignition temperature : approx. 230 °C
Method: DIN 51794

Decomposition temperature : No decomposition if used as directed.

Viscosity

Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Explosive properties : no data available

Oxidizing properties : Not applicable

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

Possibility of hazardous
reactions : No dangerous reaction known under conditions of normal use.
StableConditions to avoid : Strong acids and oxidizing agents
Strong bases

Incompatible materials : Strong oxidizing agents

Hazardous decomposition
products : Toxic gases/vapours**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact

Eye contact

Ingestion

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

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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 composition

Acute 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 composition

Acute 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
Remarks: CESIO

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 eye
Result: Risk of serious damage to eyes.
Remarks: CESIO

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

Species: rabbit eye

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Result: Eye irritation
Method: OECD Test Guideline 405
GLP: no
Remarks: By analogy with a product of similar composition

Respiratory or skin sensitisation**Product:**

Remarks: no data available

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

Test Type: Guinea pig maximization test
Exposure routes: Dermal
Species: Guinea pig
Method: OECD Test Guideline 406
Result: non-sensitizing
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

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Application Route: oral (gavage)
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 indications of toxic effects were observed in reproduction studies in animals.

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

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Remarks: By analogy with a product of similar composition

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

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.

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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 203

Toxicity to daphnia and other :
aquatic invertebrates Remarks: no data available

Toxicity to algae :
Remarks: no data available

Toxicity to microorganisms : EC50: > 1,000 mg/l
Method: OECD Test Guideline 209

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: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.39 mg/l
aquatic invertebrates Exposure time: 48 h
Test Type: static test
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.

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- 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
Remarks: By analogy with a product of similar composition
The details of the toxic effect relate to the nominal concentration.
- Plant toxicity : NOEC (*Triticum aestivum* (wheat)): 100 mg/kg

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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

Persistence and degradability**Product:**

Biodegradability : Biodegradation: > 80 %
Exposure time: 28 d
Method: OECD Test Guideline 301E
Remarks: Readily biodegradable, according to appropriate OECD test.

Chemical Oxygen Demand (COD) : 2,277 mg/g

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

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

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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 : By analogy with a product of similar composition

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

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.

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SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

- RCRA - Resource Conservation and Recovery Authorization Act Waste Code : This product, if discarded as sold, is not a Federal RCRA hazardous waste.
- 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 not restricted
- IATA not restricted
- IMDG not restricted

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.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

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

- SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

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

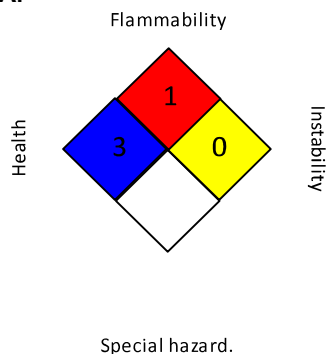
- TSCA : On TSCA Inventory

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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 - 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

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Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Observe national and local legal requirements

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.

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