

TRIETHYLENEGLYCOL (TEG)

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Version: 1 - 4 / USA	Date of printing :04/15/2021

SECTION 1. IDENTIFICATION

Identification of the

company:

Clariant Produkte (Deutschland) GmbH

Frankfurt am Main, 65926

Telephone No.: +49 69 305 18000

Information of the substance/preparation:

Product Stewardship, +1-704-331-7710

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

Trade name: TRIETHYLENEGLYCOL (TEG)

Material number: 174306 CAS number: 112-27-6

Primary product use: Anti-freezing agents

Water treatment chemical

Dewatering agent

Chemical family: 1,2-di-(2-hydroxy ethoxy)-ethane

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Eye irritation : Category 2B

Germ cell mutagenicity : Category 2

Specific target organ toxicity

- single exposure

: Category 3 (Central nervous system)

GHS label elements

Hazard pictograms





Signal word : Warning

Hazard statements : H320 Causes eye irritation.

H336 May cause drowsiness or dizziness. H341 Suspected of causing genetic defects.

Precautionary statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.



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P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/

face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/

attention.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

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 : 1,2-di-(2-hydroxy ethoxy)-ethane

CAS-No. : 112-27-6

Components

Chemical name	CAS-No.	Concentration (% w/w)
Triethylene glycol	112-27-6	60 - 100
Triethylene glycol	112-27-6	<= 100

Contains no hazardous ingredients according to GHS

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.

If symptoms persist, call a physician.

Move the victim to fresh air.



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> 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 Remove contaminated clothing and shoes.

Wash with plenty of soap and water.

If skin irritation occurs, seek medical advice/attention.

Wash thoroughly with soap and water for 15 minutes. If skin

irritation occurs, seek medical attention.

Rinse immediately with plenty of water, also under the eyelids, In case of eye contact

for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

If symptoms persist, call a physician.

Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If swallowed Rinse mouth with water.

> Drink water as a precaution. Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

Obtain medical attention.

Get medical attention immediately.

Do NOT induce vomiting.

Most important symptoms and effects, both acute and

delayed

The following symptoms may occur:

Gastrointestinal discomfort

irritant effects Dizziness Headache Abdominal pain

Notes to physician Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Dry powder

> Carbon dioxide (CO2) Alcohol-resistant foam

Water mist

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

In case of fire hazardous decomposition products may be

produced such as:

Carbon oxides



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Further information : Cool containers/tanks with water spray.

Wear full protective clothing and self-contained breathing

apparatus.

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment.

Avoid inhalation, ingestion and contact with skin and eyes. Contain spill. Ensure adequate ventilation and wear

appropriate personal protective equipment. Collect onto inert

absorbent. Place in sealable container. Do not allow to

contaminate water sources or sewers.

Environmental precautions : Prevent product from entering drains.

Methods and materials for containment and cleaning up

Wear suitable protective clothing.
Soak up with inert absorbent material.

Keep in suitable, closed containers for disposal. Dispose of in accordance with local regulations.

Flush with plenty of water.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Provide adequate ventilation.

Avoid inhalation, ingestion and contact with skin and eyes.

Use only with adequate ventilation and proper protective

eyewear, gloves, and clothing. Wash thoroughly after handling.

Keep container closed.

Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place.

Further information on storage conditions

: Keep containers tightly closed in a dry, cool and well-

ventilated place.

Store in a cool, dry location away from heat, sparks and open

flames.

Store in original container. Keep container tightly closed.

Materials to avoid : Strong oxidizing agents



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Further information on

storage stability

Shelf life is limited; see product information leaflet

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Local ventilation recommended - mechanical ventilation may

be used.

Personal protective equipment

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

Full mask with combination filter A2/P3.

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 29CFR1910.134.

Hand protection

Remarks : Wear protective gloves. Neoprene gloves Viton (R) Nitrile

rubber PVC Breakthrough time is not determined for the

product. Change gloves often!

Chemical resistant gloves (butyl rubber, nitrile rubber,

polyvinyl alcohol). However, please note that PVA degrades

in water.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Wear suitable protective clothing.

Wear suitable protective equipment.

Protective measures : Avoid contact with skin and eyes.

Hygiene measures : Keep away from food and drink.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : colourless

Odour : odourless

pH : 5 - 8 (68 °F / 20 °C)

Concentration: 50 %



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(as aqueous solution)

Melting point : 24.3 °F / -4.3 °C

Method: DIN 51583

Boiling point : 545 - 563 °F / 285 - 295 °C

Method: DIN 53171

Flash point : 329 °F / 165 °C

Method: DIN 51758

Flammability (solid, gas) : Not applicable

Self-ignition : not tested.

Upper explosion limit / upper

flammability limit

9.2 %(V)

Lower explosion limit / Lower :

flammability limit

0.9 %(V)

Vapour pressure : < 0.01 mbar (68 °F / 20 °C)

Relative density : 1.11 - 1.13

Solubility(ies)

Water solubility : completely soluble (68 °F / 20 °C)

Auto-ignition temperature : approx. 698 °F / 370 °C

Method: DIN 51794

Decomposition temperature : At normal pressure may be distilled without decomposition.

Viscosity

Viscosity, dynamic : $< 150 \text{ mPa.s} (41 \degree \text{F} / 5 \degree \text{C})$

Method: DIN 51562

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Keep away from heat.

Keep away from heat.

Keep away from open flames, hot surfaces and sources of

ignition.

Incompatible materials : Strong oxidizing agents



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Strong acids and strong bases

Hazardous decomposition

products

In case of fire hazardous decomposition products may be

produced such as:

Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye contact Skin contact Inhalation Ingestion

Skin Absorption

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 15,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

Components:

Triethylene glycol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: Other

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Other

Acute dermal toxicity : LD50 (Rabbit, male and female): Method: Other

Remarks: No adverse effect has been observed in acute

toxicity tests.

Triethylene glycol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: Other

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Other

Acute dermal toxicity : LD50 (Rabbit, male and female): Method: Other

Remarks: No adverse effect has been observed in acute

toxicity tests.



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Skin corrosion/irritation

Product:

Species: Rabbit Result: slight irritation

Components:

Triethylene glycol:

Species: Rabbit Method: Draize Test Result: No skin irritation

Triethylene glycol:

Species: Rabbit Method: Draize Test Result: No skin irritation

Serious eye damage/eye irritation

Product:

Species: rabbit eye Result: slight irritation

Components:

Triethylene glycol:

Species: Rabbit Result: No eye irritation Method: Draize Test

Triethylene glycol:

Species: Rabbit Result: No eye irritation Method: Draize Test

Respiratory or skin sensitisation

Product:

Test Type: Patch Test 24 Hrs.

Species: Humans Method: Other

Result: Not a skin sensitizer.

Components:

Triethylene glycol:

Test Type: Patch Test 24 Hrs.

Species: Humans Method: Other



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Result: Not a skin sensitizer.

Triethylene glycol:

Test Type: Patch Test 24 Hrs.

Species: Humans Method: Other

Result: Not a skin sensitizer.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Germ cell mutagenicity -

Assessment

Not mutagenic in Ames Test

Components:

Triethylene glycol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative



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Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

Triethylene glycol:

Genotoxicity in vitro : Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 479

Result: negative

Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

Germ cell mutagenicity -

Assessment

: In vitro tests did not show mutagenic effects

Carcinogenicity

Product:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 108 w

NOAEL: 1,210 mg/kg body weight

Method: Other

Remarks: By analogy with a product of similar composition

Components:

Triethylene glycol:

Species: Rat, (male and female)

Application Route: Oral Exposure time: 108 w

NOAEL: 1,210 mg/kg body weight

Method: Other

Remarks: By analogy with a product of similar composition

Carcinogenicity - : Not classifiable as a human carcinogen.

Assessment

Triethylene glycol:

Species: Rat, (male and female)



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Application Route: Oral Exposure time: 108 w

NOAEL: 1,210 mg/kg body weight

Method: Other

Remarks: By analogy with a product of similar composition

Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHANo component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Product:

Effects on foetal : Species: Rat

development Strain: Sprague-Dawley
Application Route: Oral

Dose: 0.0, 1.0, 5.0, 10.0 ml/kg/day

General Toxicity Maternal: NOEL: 1 Developmental Toxicity: NOEL: 5

Method: Other

Remarks: By analogy with a product of similar composition

Components:

Triethylene glycol:

Effects on foetal : Species: Rat

development Strain: Sprague-Dawley
Application Route: Oral

Dose: 0.0, 1.0, 5.0, 10.0 ml/kg/day General Toxicity Maternal: NOEL: 1 Developmental Toxicity: NOEL: 5

Method: Other

Remarks: By analogy with a product of similar composition

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

Triethylene glycol:

Effects on foetal : Species: Rat

development Strain: Sprague-Dawley Application Route: Oral

Dose: 0.0, 1.0, 5.0, 10.0 ml/kg/day



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General Toxicity Maternal: NOEL: 1 Developmental Toxicity: NOEL: 5

Method: Other

Remarks: By analogy with a product of similar composition

Reproductive toxicity -

Assessment

No evidence of adverse effects on sexual function and fertility,

or on development, based on animal experiments.

STOT - single exposure

Product:

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

Components:

Triethylene glycol:

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

Triethylene glycol:

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

STOT - repeated exposure

Product:

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

Components:

Triethylene glycol:

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

Triethylene glycol:

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

Repeated dose toxicity

Product:

Species: Rat, male and female NOAEL: 1522 - 1699 mg/kg bw/day

Application Route: Oral Exposure time: 13 w

Method: OECD Test Guideline 408



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Components:

Triethylene glycol:

Species: Rat, male and female NOAEL: 1522 - 1699 mg/kg bw/day

Application Route: Oral Exposure time: 13 w

Method: OECD Test Guideline 408

Triethylene glycol:

Species: Rat, male and female NOAEL: 1522 - 1699 mg/kg bw/day

Application Route: Oral Exposure time: 13 w

Method: OECD Test Guideline 408

Aspiration toxicity

Product:

no data available

Components:

Triethylene glycol:

no data available

Triethylene glycol:

no data available

Experience with human exposure

Product:

General Information : The possible symptoms known are those derived from the

labelling (see section 2).

Further information

Product:

Remarks: May cause headache and dizziness.

May cause eye and skin irritation.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10 g/l

Exposure time: 96 h



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Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10 g/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)):

Remarks: not tested.

Toxicity to fish (Chronic

toxicity)

NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l

Exposure time: 7 d

Test Type: semi-static test

Method: Other

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): > 15,000 mg/l

Exposure time: 21 d Test Type: static test Method: Other

Toxicity to microorganisms : EC50 (Photobacterium phosphoreum): > 10 g/l

Components:

Triethylene glycol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10,000 mg/l

End point: mortality Test Type: static test Method: Other

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Method: DIN 38412

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: By analogy with a product of similar composition

Toxicity to fish (Chronic

toxicity)

NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l

Exposure time: 7 d

Test Type: semi-static test

Method: Other

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): > 15,000 mg/l

Exposure time: 21 d Test Type: static test Method: Other

Toxicity to microorganisms : (activated sludge): > 1,995 mg/l

Exposure time: 30 min Test Type: static test Method: Other



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Triethylene glycol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 10,000 mg/l

End point: mortality Test Type: static test Method: Other

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 10,000 mg/l

Exposure time: 48 h Test Type: static test Method: DIN 38412

Toxicity to algae/aquatic

plants

NOEC (Pseudokirchneriella subcapitata (algae)): > 100 mg/l

End point: Growth rate Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: By analogy with a product of similar composition

Toxicity to fish (Chronic

toxicity)

NOEC (Pimephales promelas (fathead minnow)): 15,380 mg/l

Exposure time: 7 d
Test Type: semi-static test

Method: Other

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): > 15,000 mg/l

Exposure time: 21 d Test Type: static test Method: Other

Toxicity to microorganisms : (activated sludge): > 1,995 mg/l

Exposure time: 30 min Test Type: static test Method: Other

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.

Method: OECD Test Guideline 302B

Chemical Oxygen Demand

(COD)

1,520 mg/g

Components:

Triethylene glycol:

Biodegradability : Inoculum: activated sludge

Dissolved organic carbon (DOC) Result: Readily biodegradable. Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301A

Remarks: By analogy with a product of similar composition



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Triethylene glycol:

Biodegradability : Inoculum: activated sludge

Dissolved organic carbon (DOC) Result: Readily biodegradable. Biodegradation: 90 - 100 %

Exposure time: 10 d

Method: OECD Test Guideline 301A

Remarks: By analogy with a product of similar composition

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: According to the criteria of EU

Directives/Regulations, the substance is not considerer to be

bioaccumulative.

Components:

Triethylene glycol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Triethylene glycol:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Mobility in soil

Product:

Distribution among : Adsorption/Soil environmental compartments log Koc: 1

Method: estimated

Components:

Triethylene glycol:

Distribution among : Adsorption/Soil environmental compartments log Koc: 1

Method: estimated

Triethylene glycol:

Distribution among : Adsorption/Soil environmental compartments log Koc: 1

Method: estimated

Other adverse effects

Product:

Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

Additional ecological : The substance does not meet the criteria for PBT or vPvB



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information substance.

This product has no known ecotoxicological effects.

Components:

Triethylene glycol:

Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

Triethylene glycol:

Results of PBT and vPvB

assessment

The substance is not identified as a PBT or as a vPvB

substance.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource

Conservation and Recovery

Authorization Act

Waste from residues

: No -- Not as sold.

: Dispose of in accordance with the European Directives on

waste and hazardous waste.

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 restrictedIATA not restrictedIMDG 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 311/312 Hazards : Specific target organ toxicity (single or repeated exposure)

Serious eye damage or eye irritation

Germ cell mutagenicity



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SARA 313 : This product does not contain any toxic chemical listed under

the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986. Note: Under normal usage conditions, the active components of this

product may hydrolyze to release ethylene glycol.

Clean Water Act

This product is not a Clean Water Act priority pollutant.

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

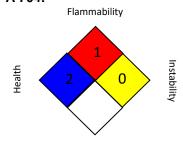
TSCA : All components are compliant with the TSCA Inventory

Notification (Active) rule.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard.

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 -



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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

Observe national and local legal requirements Do not breathe vapour. Ensure adequate ventilation. Do not get in eyes. Do not get on skin. Do not swallow. When using do not eat, drink or smoke.

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