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 Substance key: 000000687847
 Revision Date: 03/19/2020

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

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:

Product Stewardship, +1-704-331-7710

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

Trade name: BIOTREAT 15359

Material number: 303383

Primary product use: Biocide

Chemical family: Mixture of Glutaraldehyde, Quaternary Ammonium Compounds,

Ethanol and Non hazardous additions

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

GHS label elements

Hazard pictograms :







Signal word : Danger

Hazard statements : H302 + H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.



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Precautionary statements

Prevention:

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

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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.

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

Storage:

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 : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
C12-C16 Alkyldimethylbenzyl	68424-85-1	5 - 10
ammonium chloride		





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Glutaraldehyde	111-30-8	5 - 10
Ethanol	64-17-5	1 - 3

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.

Never give anything by mouth to an unconscious person.

In case of skin contact Wash off immediately with plenty of water for at least 15

Get medical attention immediately if irritation develops and

persists.

Wash contaminated clothing before reuse.

In case of eye contact Do not wear contact lenses.

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.

Call your local Poison Control Center (In the U.S. call 1-800-

222-1222).

Most important symptoms and effects, both acute and

delayed

The possible symptoms known are those derived from the

labelling (see section 2).

No additional symptoms are known.

Notes to physician Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Dry chemical

Carbon dioxide (CO2) Alcohol-resistant foam

Unsuitable extinguishing

media

High volume water jet

Specific hazards during

firefighting

In case of fires, hazardous combustion gases are formed:

Carbon monoxide (CO)



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Carbon dioxide (CO2)

Further information : In the event of fire and/or explosion do not breathe fumes.

Emits toxic and corrosive fumes under fire conditions. Do not allow run-off from fire fighting to enter drains or water

courses.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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 Refer to protective measures listed in sections 7 and 8.

Avoid contact with skin, eyes and clothing.

Wash thoroughly after handling.

Environmental precautions

The product should not be allowed to enter drains, water

courses or the soil.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13).

Clean contaminated surface thoroughly.

Incineration in suitable incineration plant, observing local

authority regulations

SECTION 7. HANDLING AND STORAGE

Advice on protection against

fire and explosion

Keep away sources of ignition.

Take precautionary measures against build-up of electrostatic

charges, e.g. earthing during loading and off-loading

operations.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice.

Use only with adequate ventilation/personal protection.

For personal protection see section 8. Avoid contact with skin, eyes and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Further information on storage conditions

: Store in a cool, drv. well-ventilated area. Keep container

sealed when not in use.



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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glutaraldehyde	111-30-8	С	0.2 ppm 0.8 mg/m3	NIOSH REL
		С	0.2 ppm 0.8 mg/m3	OSHA P0
		С	0.05 ppm	ACGIH
Ethanol	64-17-5	STEL	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		TWA	1,000 ppm 1,900 mg/m3	OSHA P0

Engineering measures : Use only in area provided with appropriate exhaust

ventilation.

Use engineering controls such as local or general exhaust to maintain airborne concentrations below exposure limits.

Personal protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

Hand protection

Material : butyl-rubber

Remarks : Nitrile rubber Neoprene

Eye protection : Wear safety glasses with side shelds, chemical splash

goggles, and /or full face shield to prevent contact with eyes.

Skin and body protection : Wear protective clothing, including long sleeves and gloves,

to prevent skin contact.

Protective measures : Observe the usual precautions for handling chemicals.

Hygiene measures : Wash hands before breaks and at the end of workday.

Take off immediately all contaminated clothing and wash it

before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid, clear

Colour : colourless to light yellow



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Odour : fruity

Odour Threshold : not available

pH : 3.5 - 5.5

Melting point/freezing point : not available

Boiling point : $> 200 \, ^{\circ}\text{F} \, / > 93 \, ^{\circ}\text{C}$

Flash point : $> 200.01 \, ^{\circ}\text{F} / > 93.34 \, ^{\circ}\text{C}$

Evaporation rate : not available

Flammability (solid, gas) : not specified

Self-ignition : no data available

Upper explosion limit / upper

flammability limit

not available

Lower explosion limit / Lower :

flammability limit

not available

Vapour pressure : not available

Relative vapour density : not available

Relative density : 0.99 - 1.03

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

not available

Auto-ignition temperature : not available

Decomposition temperature : not available

Viscosity

Viscosity, dynamic : no data available

Viscosity, kinematic : 2.38 mm2/s (71.6 °F / 22.0 °C)



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Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

Stable under recommended storage conditions.

Conditions to avoid : Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Incompatible materials : Incompatible with oxidizing agents.

Hazardous decomposition

products

Carbon monoxide, carbon dioxide and unburned

hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact Eye contact Inhalation Ingestion

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: 1,246 mg/kg

Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 0.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Method: Calculation method

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

Acute oral toxicity : LD50 (Rat): 330 mg/kg

Glutaraldehyde:

Acute oral toxicity : LD50 (Rat): 100 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.28 - 0.35 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 1,000 mg/kg

Assessment: The substance or mixture has no acute dermal



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toxicity

Ethanol:

Acute oral toxicity : LD50 (Rat, male and female): 10,470 mg/kg

Method: OECD Test Guideline 401

GLP: no

Acute inhalation toxicity : LC50 (Rat, male and female): 124.7 mg/l

Exposure time: 4 h Test atmosphere: vapour

Method: OECD Test Guideline 403

GLP: no

: LD50 (Rabbit): > 2,000 mg/kg Acute dermal toxicity

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

Assessment: Causes burns.

Glutaraldehyde:

Assessment: Causes burns.

Ethanol:

Species: Rabbit Exposure time: 24 h

Method: OECD Test Guideline 404

Result: No skin irritation

GLP: yes

Serious eye damage/eye irritation

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

Assessment: Risk of serious damage to eyes.

Glutaraldehyde:

Assessment: Risk of serious damage to eyes.

Ethanol:

Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405



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GLP: No information available.

Respiratory or skin sensitisation

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

Assessment: Harmful if swallowed., Causes severe skin burns and eye

damage.

Glutaraldehyde:

Result: The product is a skin sensitiser, sub-category 1A.

Result: May cause sensitisation by inhalation.

Assessment: Causes severe skin burns and eye damage., Toxic if swallowed.,

Fatal if inhaled.

May cause an allergic skin reaction., May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Ethanol:

Exposure routes: Dermal

Species: Mouse Method: Other

Result: Not a skin sensitizer. GLP: No information available.

Germ cell mutagenicity

Components:

Ethanol:

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

GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: No information available.

Test Type: Chromosome aberration test in vitro

Test system: Human lymphocytes Method: OECD Test Guideline 473

Result: negative

GLP: No information available.



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Test Type: In vivo micronucleus test Genotoxicity in vivo

Species: Rat (male)

Strain: Other

Cell type: Bone marrow

Application Route: Drinking water Method: OECD Test Guideline 474

Result: negative

GLP: No information available.

Germ cell mutagenicity -

Assessment

It is concluded that the product is not mutagenic based on

evaluation of several mutagenicity tests.

Carcinogenicity

Components:

Ethanol:

Species: Mouse, (female)

Application Route: Drinking water Exposure time: 105 weeks

Dose: 0, 2.5 and 5% in drinking wate

Group: yes

4,400 mg/kg bw/day Method: OPPTS 870.4200

GLP: yes

Carcinogenicity -

Assessment

: Not classifiable as a human carcinogen.

IARC Not listed

OSHA Not listed

NTP Not listed

Reproductive toxicity

Components:

Ethanol:

Effects on fertility Test Type: Two-generation study

Species: Mouse, male and female

Strain: CD1

Application Route: Drinking water Dose: 5, 10 and 15% v/v in water Duration of Single Treatment: 126 d General Toxicity - Parent: NOAEL: 15 % General Toxicity F1: NOAEL: 10 % General Toxicity F2: NOAEL: < 15 % Method: OECD Test Guideline 416 GLP: No information available.



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Effects on foetal : Test Type: Pre-natal development : Species: Rat, female

Strain: Sprague-Dawley
Application Route: Inhalation

Dose: 10000, 16000, 20000 ppm nom. Duration of Single Treatment: 19 d Frequency of Treatment: 1 daily

General Toxicity Maternal: NOAEL: 16,000 ppm

Teratogenicity: NOAEL: 20,000 ppm Method: OECD Test Guideline 414 GLP: No information available.

Reproductive toxicity - : No reproductive toxicity to be expected.

Assessment No teratogenic effects to be expected.

STOT - single exposure

Components:

Glutaraldehyde:

Assessment: May cause respiratory irritation.

Ethanol:

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

STOT - repeated exposure

Components:

Glutaraldehyde:

Remarks: no data available

Ethanol:

Remarks: no data available

Repeated dose toxicity

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

Repeated dose toxicity - : Harmful if swallowed., Causes severe skin burns and eye

Assessment damage.

Glutaraldehyde:

Repeated dose toxicity - : Causes severe skin burns and eye damage., Toxic if

Assessment swallowed., Fatal if inhaled.

Ethanol:

Species: Rat, male and female



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LOAEL: ca. 3200 mg/kg

Application Route: oral (gavage) Exposure time: 7 weeks or 14 weeks

Number of exposures: twice daily, 7 days a week

Dose: 5, 10, 20 ml/kg

Group: yes

Method: OECD Test Guideline 408 GLP: No information available.

Species: Rat, male NOEL: > 20 mg/l

Application Route: inhalation (vapour) Exposure time: 3, 6, 9, 26 day groups Number of exposures: continuous

Dose: 20 mg/l Group: yes Method: Other

GLP: No information available.

Aspiration toxicity

Components:

Glutaraldehyde:

No aspiration toxicity classification

Ethanol:

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

Components:

C12-C16 Alkyldimethylbenzyl ammonium chloride:

M-Factor (Acute aquatic

toxicity)

: 10

M-Factor (Chronic aquatic : 1

toxicity)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.



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Chronic aquatic toxicity Very toxic to aquatic life with long lasting effects.

Glutaraldehyde:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 0.8 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.1 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

LC50 (Desmodesmus subspicatus (green algae)): 0.6 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0.025 mg/l

Exposure time: 72 h

M-Factor (Acute aquatic

toxicity)

: 1

Toxicity to fish (Chronic

toxicity)

Remarks: no data available

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

Remarks: no data available

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity Toxic to aquatic life with long lasting effects.

Ethanol:

Toxicity to fish LC50 (Pimephales promelas (fathead minnow)): 15,300 mg/l

End point: mortality Exposure time: 96 h

Test Type: flow-through test Analytical monitoring: yes

Method: Other

GLP: No information available.

LC50 (Oncorhynchus mykiss (rainbow trout)): 11,200 mg/l

End point: mortality Exposure time: 24 h

Test Type: flow-through test Analytical monitoring: no

Method: Other

GLP: No information available.

Toxicity to daphnia and other : LC50 (Ceriodaphnia dubia (water flea)): 5,012 mg/l



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> Exposure time: 48 h Test Type: static test Analytical monitoring: no

Method: Other

GLP: No information available.

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

End point: Immobilization Exposure time: 48 h Method: DIN 38412

GLP: no

Toxicity to algae/aquatic

plants

EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

EC10 (Chlorella vulgaris (Fresh water algae)): 11.5 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

NOEC (Danio rerio (zebra fish)): 250 mg/l

End point: Other Exposure time: 120 h Test Type: semi-static test

Method: OECD Test Guideline 212 GLP: No information available.

Toxicity to daphnia and other :

aquatic invertebrates

(Chronic toxicity)

Remarks: no data available

Toxicity to microorganisms : EC50 (Natural microorganism): 5,800 mg/l

Exposure time: 4 h Test Type: static test

Toxicity to soil dwelling

organisms

Remarks: Not applicable

Plant toxicity : Remarks: Not applicable

Sediment toxicity : Remarks: Not applicable

Toxicity to terrestrial

organisms

Remarks: Not applicable

Persistence and degradability

Components:

Glutaraldehyde:



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Biodegradability : Result: Readily biodegradable.

Biodegradation: > 90 % Exposure time: 28 d

Method: OECD Test Guideline 301A

Ethanol:

Biodegradability : aerobic

Result: Readily biodegradable.

Biodegradation: 84 % Exposure time: 20 d

Bioaccumulative potential

Components:

Glutaraldehyde:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Partition coefficient: n-

octanol/water

: log Pow: -0.36

pH: 7

Ethanol:

Bioaccumulation : Bioconcentration factor (BCF): 0.66

Method: calculated

Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

log Pow: -0.35 (75 °F / 24 °C)

pH: 7.4

Method: OECD Test Guideline 107

Mobility in soil

Components:

Ethanol:

Distribution among : adsorption

environmental compartments Medium: water - soil

Remarks: Not expected to adsorb on soil.

Other adverse effects

Product:

Additional ecological

information

: No data is available on the product itself.

Components:

Ethanol:

Results of PBT and vPvB : This substance is not considered to be persistent,



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assessment bioaccumulating and toxic (PBT).

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

Authorization Act

This material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. Processing, use or

contamination of this product may change the waste management options. State and local disposal regulations

Waste Code : D002

Waste from residues : Dispose of this product in accordance with all applicable local,

state and federal regulations.

Contaminated packaging : Contaminated packaging material should be treated

equivalent to residual chemicals. Clean packaging material should be subjected to waste management schemes (recovery recycling, reuse) according to local legislation.

SECTION 14. TRANSPORT INFORMATION

DOT Regulation:

UN/NA-number: UN 1903

Proper shipping name: Disinfectant, liquid, corrosive, n.o.s.

Technical Name: QUATERNARY AMMONIUM COMPOUND

Primary hazard class: 8
Packing group: II
Emergency Response 153

Guide:

Guidi

IATA
UN/ID number: UN 1903

Proper shipping name: Disinfectant, liquid, corrosive, n.o.s.

Hazard inducer(s): QUATERNARY AMMONIUM COMPOUND

Primary risk: 8
Packing group: II

Remarks: Shipment permitted

IMDG

UN no.: UN 1903



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Proper shipping name: Disinfectant, liquid, corrosive, n.o.s.

Hazard inducer(s): QUATERNARY AMMONIUM COMPOUND

Primary risk: 8
Packing group: II

EmS: F-A S-B

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

A characteristic waste RQ of 100 lbs applies to this product in a waste form: D002

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)

Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

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

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA : All chemical substances in this product are either listed on the

TSCA Inventory or are in compliance with a TSCA Inventory exemption., This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).



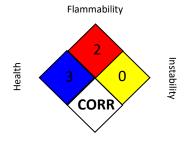
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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits

OSHA PO : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -

1910.1000

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1

Limits for Air Contaminants

ACGIH / STEL : Short-term exposure limit

ACGIH / C : Ceiling limit

NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour

workday during a 40-hour workweek

NIOSH REL / C : Ceiling value not be exceeded at any time.

OSHA P0 / TWA : 8-hour time weighted average

OSHA P0 / C : Ceiling limit

OSHA Z-1 / TWA : 8-hour time weighted average

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



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- 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 all necessary precautions for handling corrosive liquids.

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