

BIOTREAT 8414

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Substance key: 000000238594
Version : 3 - 2 / USA

Revision Date: 03/19/2020
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:	BU Oil & Mining Services Product Stewardship +1-704-331-7710
Emergency tel. number:	+1 800-424-9300(CHEMTREC)

Trade name: BIOTREAT 8414
Material number: 214732

Primary product use: Biocide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
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.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
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 eye protection/ face protection.

P280 Wear protective gloves.

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.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

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.

P362 Take off contaminated clothing and wash before reuse.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Glutaraldehyde	111-30-8	25

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

SECTION 4. FIRST AID MEASURES

If inhaled

:

Remove to fresh air.

If not breathing, give artificial respiration.

Consult a physician.

In case of skin contact

:

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

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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 swallowed, DO NOT induce vomiting.
Drink plenty of water.
Never give anything by mouth to an unconscious person.
Get immediate medical advice/ attention.
- 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
Alcohol-resistant foam
Dry powder
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : In case of fire hazardous decomposition products may be produced such as:
Carbon monoxide
Carbon dioxide (CO₂)
- 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 : Wearing appropriate personal protective equipment, contain spill, ventilate area of spill or leak, remove all sparking devices or ignition sources, collect onto inert absorbent, and place in a suitable container.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Use only with adequate ventilation and proper protective

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eyewear, gloves, and clothing.
Wash thoroughly after handling.
Keep container closed.

Further information on storage conditions : Store in original container.
Do not freeze.
Store in a cool, dry, well-ventilated area.

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	C	0.2 ppm 0.8 mg/m ³	NIOSH REL
		C	0.2 ppm 0.8 mg/m ³	OSHA P0
		C	0.05 ppm	ACGIH

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

Personal protective equipment

Respiratory protection : If airborne concentrations pose a health hazard, become irritating, or exceed recommended limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements under 29CFR1910.134.

Hand protection
Remarks : Butyl rubber or nitrile.

Eye protection : Safety goggles or full face shield to protect against splashes.

Skin and body protection : Wear suitable protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : yellow

Odour : characteristic

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Odour Threshold	:	not determined
pH	:	approx. 3.6
Freezing point	:	not determined
Boiling point	:	> 212 °F / > 100 °C
Flash point	:	> 527 °F / > 275 °C
Evaporation rate	:	not determined
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	not determined
Relative vapour density	:	not determined
Density	:	1.06 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	not determined
Auto-ignition temperature	:	not determined
Decomposition temperature	:	no data available
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined

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. Stable

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Conditions to avoid	:	Keep away from incompatible materials.
Incompatible materials	:	not known
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

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

Eye contact
Skin contact
Inhalation
Ingestion
Skin Absorption

Acute toxicity**Product:**

Acute oral toxicity : LDLo (Humans): 143 mg/kg
Remarks: Information refers to the main component.

Acute toxicity estimate: 520.29 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 11.65 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Components:**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 toxicity

Skin corrosion/irritation**Product:**

Species: Rabbit
Result: irritating

Components:**Glutaraldehyde:**

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Assessment: Causes burns.

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

Species: Rabbit

Result: Risk of serious damage to eyes.

Components:**Glutaraldehyde:**

Assessment: Risk of serious damage to eyes.

Respiratory or skin sensitisation**Product:**

Species: Guinea pig

Result: Sensitising

Remarks: Information refers to the main component.

Components:**Glutaraldehyde:**

Result: The product is a skin sensitizer, 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.

Carcinogenicity**IARC** Not listed**OSHA** Not listed**NTP** Not listed**STOT - single exposure****Components:****Glutaraldehyde:**

Assessment: May cause respiratory irritation.

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STOT - repeated exposure**Components:****Glutaraldehyde:**

Remarks: no data available

Components:**Glutaraldehyde:**

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

Aspiration toxicity**Components:****Glutaraldehyde:**

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 : (Lepomis macrochirus (Bluegill sunfish)): 13 mg/l
Exposure time: 96 h

Components:**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) : 1

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toxicity)

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.

Persistence and degradability**Product:**Biodegradability : Biodegradation: 90 - 100 %
Exposure time: 28 d
Method: OECD Test Guideline 301A**Components:****Glutaraldehyde:**Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 28 d
Method: OECD Test Guideline 301A**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**Mobility in soil**

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

RCRA - Resource : No -- Not as sold.

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Conservation and Recovery
Authorization Act

Waste from residues : Consult local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION**DOT Regulation:**UN/NA-number: UN 3265
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
Technical Name: GlutaraldehydePrimary hazard class: 8
Packing group: II
Emergency Response
Guide: 153**IATA**UN/ID number: UN 3265
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
Hazard inducer(s): GlutaraldehydePrimary risk: 8
Packing group: II
Remarks: Shipment permitted**IMDG**UN no.: UN 3265
Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.
Hazard inducer(s): GlutaraldehydePrimary risk: 8
Packing group: II
EmS: F-A S-B

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****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)
Skin corrosion or irritation
Serious eye damage or eye irritation
Respiratory or skin sensitisation**SARA 313** : This product is not subject to SARA Title III Section 313
reporting requirements under 40 CFR 372.

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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 of this product are listed on the TSCA Inventory. However, the primary use of this product is NOT subject to TSCA but rather to FIFRA and must comply with the FIFRA regulations.

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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL : USA. NIOSH Recommended Exposure Limits
OSHA P0 : USA. OSHA - TABLE Z-1 Limits for Air Contaminants -
1910.1000
ACGIH / C : Ceiling limit
NIOSH REL / C : Ceiling value not be exceeded at any time.
OSHA P0 / C : Ceiling limit

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

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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

Environmental Hazard: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your state water board or regional office of the EPA. Avoid breathing fumes or vapors and avoid contact with skin and eyes. Wear proper protective equipment. Keep container closed when not in use.

This chemical is a pesticide product registered by the EPA and is subject to certain labeling requirements under FIFRA. FIFRA requirements differ from GHS classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the FIFRA label:

Danger

Corrosive

Causes irreversible eye damage.

Causes skin irritation.

Harmful if inhaled.

Harmful if swallowed.

Harmful if absorbed through skin.

May cause an allergic skin reaction.

Causes asthmatic signs and symptoms in hyper-reactive individuals.

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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.

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