

TERRASTAT™ 1522-R

Section 1. Chemical Product and Company Information

Product Name : TERRASTAT™ 1522-R

Other means of identification : Peracetic Acid, Acetyl Hydroperoxide, Peroxyacetic Acid

Recommended Use : Antimicrobial

Restrictions on Use : Reserved for industrial and professional use.

Supplier Information : Brainerd Chemical Company, Inc.

1200 N. Peoria Ave. Tulsa, OK 74106 (918) 622-1214

Date of issue : 3/20/2018 EPA Registration No. : 91628-3-8743

> EMERGENCY HEALTH INFORMATION: 1 (800) 424-9300 Outside United States and Canada CALL: +1 (703) 741-5500

Section 2. Hazards Identification

GHS Classification

Oxidizing liquids : Category 3

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label Element

Hazard pictograms :







Signal Word : Danger

Hazard Statements : May intensify fire; oxidizer. Harmful if swallowed.

Causes severe skin burns and eye damage

Precautionary Statements :

Prevention: CORROSIVE Causes irreversible eye damage. Causes skin

burns. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wear coveralls worn over long-sleeved shirt and long pants, socks, chemical resistant footwear, rubber gloves, and chemical goggles. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco or using the toilet. Remove and wash contaminated

clothing before reuse.

Strong oxidizing agent. Mix only with water. TERRASTAT™ 1522-R is not combustible, but at temperatures exceeding 156 F, decomposition occurs releasing oxygen. The oxygen released could initiate or promote combustion of other materials.



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Response:

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control

center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing

Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center of doctor for treatment advice.

If inhaled: Move person to fresh air.

If person is not breathing. Call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. If swallowed: Call a poison control center or doctor for treatment advice. Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Storage: Store locked up.

Disposal: Dispose of contents/ container to an approved waste disposal

plant.

Other hazards : None Known

Section 3. Composition / Information on Ingredients

Pure substance/mixture : Mixture

 Chemical Name
 CAS-No.
 Concentration (%)

 Acetic acid
 64-19-7
 15 - 21

 Peroxyacetic acid
 79-21-0
 15 - 17

 Hydrogen peroxide
 7722-84-1
 22 - 24

Section 4. First Aid Measures

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

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

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

Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention

immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give

anything by mouth to an unconscious person. Get medical

attention immediately.



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If inhaled

: Remove to fresh air. Treat symptomatically. Get medical attention if symptoms occur.

Protection of first-aiders

If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Notes to physician

: Treat symptomatically.

See toxicological information (Section 11)

Section 5. Fire-Fighting Measures

Suitable extinguishing media

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Including water

and water spray.

Unsuitable extinguishing media

None known

Specific hazards during fire

fighting

Oxidizer. Contact with other material may cause fire. Oxygen that

can initiate or promote combustion.

Hazardous combustion products

Oxygen

Special protective equipment for

fire-fighters

Use personal protective equipment.

Specific extinguishing methods

Use water spray to cool unopened containers. Collect

contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe

fumes.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up

Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.



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Section 7. Handling and Storage

Advice on safe handling Take necessary action to avoid static electricity discharge (which

might cause ignition of organic vapors). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/ fume/gas/ mist/ vapors/ spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Warning! Do not use together with other

products. May release dangerous gases (chlorine).

Conditions for safe storage Keep away from heat and sources of ignition. Keep in a cool, well

ventilated place. Keep away from oxidizing agents. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.

Storage temperature It is best to store this product where temperatures will not exceed

86°F (30°C). Keep container closed when not in use.

Section 8. Exposure Controls / Personal Protection

		ACGIH TLV's		OSHA PEL's		NIOSH REL's	
	CAS-No	TWA	STEL	TWA	STEL	TWA	STEL
Acetic Acid	64-19-7	15ppm	10ppm	10ppm		10ppm	15ppm
Hydrogen Peroxide	7722-84-1	1ppm		1ppm		1ppm	
Peracetic Acid	79-21-0		0.4ppm				

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Personal protective equipment : Effective exhaust ventilation system. Maintain air concentrations

below occupational exposure standards.

Eye protection : Safety goggles

Face-shield

Hand protection : Wear the following personal protective equipment: Standard

glove type. Gloves should be discarded and replaced if there is

any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective

gloves, safety goggles and protective clothing



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Respiratory protection

: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section 9. Physical and Chemical Properties

Appearance : Liquid

Color : Colorless

Odor : Vinegar-like, Sharp Pungent

pH : < 0.75, 100 %

Flash point : 85 °C closed cup, Does not sustain combustion.

Odor Threshold : No data available Freezing point : -49°C (-56°F)

Initial boiling point and boiling

range

: No data available

Evaporation Rate : >1.0; (Butyl acetate = 1)

Flammability (solid, gas) : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapor pressure : 22 mm Hg (25°C)
Relative vapor density : No data available

Relative density : 1.138

Water solubility : Completely miscible (100%)

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Autoignition temperature : No data available
Thermal decomposition : No data available
Viscosity, kinematic : No data available
Explosive properties : No data available
Oxidizing properties : Strong Oxidizer
Molecular weight : No data available
VOC : No data available



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Section 10. Stability and Reactivity

Chemical stability Potential for exothermic hazard

Stable under normal conditions.

Possibility of hazardous reactions Warning! Do not use together with other products. May release

dangerous gases (chlorine).

Conditions to avoid Heat, flames and sparks. Elevated temperatures, any sources of

heat, combustibles such as paper and wood and contamination. For quality purposes, avoid temperatures above 86F. Higher temperatures will accelerate decomposition resulting in loss of

assay.

Incompatible materials Bases, Metals, Organic materials.

Hazardous decomposition

products

Decomposition products may include the following materials:

Carbon oxides Acetic acid

Section 11. Toxicological Information

Information on likely routes of

exposure

: Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.
Skin : Causes severe skin burns.

Ingestion : Harmful if swallowed. Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human

exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Acute oral toxicity : 4 h Acute toxicity estimate : > 40 mg/l

Acute inhalation toxicity : No data available

Acute dermal toxicity : Acute toxicity estimate : 2,221 mg/kg

Skin corrosion/irritation : No data available
Serious eye damage/eye irritation : No data available
Respiratory or skin sensitization : No data available



Carcinogenicity NTP

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No component of this product present at levels greater than or Carcinogenicity IARC : equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

No ingredient of this product present at levels greater than or

Carcinogenicity OSHA : equal to 0.1% is identified as a carcinogen or potential carcinogen

by OSHA.

No ingredient of this product present at levels greater than or

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

by NTP.

Reproductive effects : No data available
Germ cell mutagenicity : No data available
Teratogenicity : No data available
STOT-single exposure : No data available
STOT-repeated exposure : No data available

Aspiration toxicity : No data available

Section 12. Ecological Information

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : No data available

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae : No data available

Ingredients

Toxicity to fish : Acetic acid 96 h LC50: 75 mg/l

No data available

Peroxyacetic acid 96 h LC50: 0.8 mg/l

Toxicity to daphnia and other

aquatic invertebrates : Peroxyacetic acid 48 h EC50: 0.73 mg/l

Toxic to algae Peroxyacetic acid 72 h EC50: 0.7 mg/l

Hydrogen peroxide 72 h EC50: 1.38 mg/l

Persistence and degradability : No data available

Bioaccumulative potential : Log Pow -1.25, does not bioaccumulate.

Mobility in soil : No data available

Other adverse effects : No data available

-Toxic to aquatic organisms

-Hazard for the environment is limited due to product properties:

Remarks : considerable abiotic and biotic degradability, weak persistence of

degradation products.
-Does not bioaccumulate



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Section 13. Disposal Considerations

Disposal methods : The product should not be allowed to enter drains, water courses

or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an

approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken

to an approved waste handling site for recycling or disposal. Do

not re-use empty containers.

RCRA - Resource Conservation and Recovery Authorization Act

Hazardous waste

D002 (Corrosive) D001 (Ignitable)

Section 14. Transport Information

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

UN number : 3109

Description of the goods : Organic peroxide type F, liquid (Peroxyacetic

acid, <26% hydrogen peroxide (<17%)

Class : 5.2 (8)

Packing group

Environmentally hazardous : no

Sea transport (IMDG/IMO)

UN number : 3109

Description of the goods : Organic peroxide type F, liquid (Peroxyacetic

acid, , <26% hydrogen peroxide (<17%)

Class : 5.2 (8)

Packing group

Environmentally hazardous : no

Section 15. Regulatory Information

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Acetic Acid	64-19-7	5000	15725

SARA 304 Extremely Hazardous Substances Reportable Quantity

Ingredients	CAS-No	Component RQ (lbs)	Calculated product RQ (lbs)
Peroxyacetic acid	79-21-0	500	3289



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SARA 311/312 Hazards Fire Hazard

Acute Health Hazard

SARA 302 The following components are subject to

reporting levels established by SARA Title III,

Section 302:

Peroxyacetic acid

79-21-0

15.0 %

SARA 313 The following components are subject to

reporting levels established by SARA Title III,

Section 313:

Peroxyacetic acid

79-21-0

15.0 %

This product does not contain any chemicals California Prop 65

> known to the State of California to cause cancer, birth, or any other reproductive

defects.

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

United States TSCA Inventory On TSCA Inventory

Canadian Domestic Substances List (DSL) All components of this product are on the

Australia Inventory of Chemical Substances

(AICS)

New Zealand. Inventory of Chemical On the inventory, or in compliance with the

Substances inventory

Japan. ENCS - Existing and New Chemical **Substances Inventory** inventory

Japan. ENCS - Existing and New Chemical

Substances Inventory

Japan. ISHL - Inventory of Chemical

Substances

Korea. Korean Existing Chemicals Inventory

(KECI)

Philippines Inventory of Chemicals and

Chemical Substances (PICCS)

China. Inventory of Existing Chemical

Substances in China (IECSC)

Canadian DSL.

On the inventory, or in compliance with the

inventory

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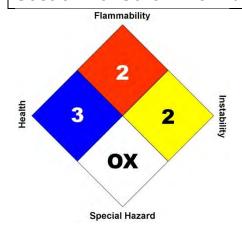
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Section 16. Other Information



HMIS III:

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	2

0 = Not Significant, 1 = Slight

2 = Moderate, 3 = High

4 = Extreme, * = Chronic



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Issuing date : 3/20/2018

Version : 1.0 Prepared by : RJD

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.