

$RAZE^{TM} 0-3-2$

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/17/2018 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture Product name : $RAZE^{TM}$ 0-3-2

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use : For professional users only
Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

Arysta LifeScience North America, LLC 15401 Weston Parkway, Suite 150 Cary, NC 27513 - USA

1.4. Emergency telephone number

Emergency number : Exposure calls (PROPHARMA): 1-866-303-6952 or +1-651-603-3432 (international) Spill calls (CHEMTREC) (Contract # CCN179): +1-800-424-9300 or +1-703-527-3887

(international)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. Label elements

GHS-US labelling

No labelling applicable

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	% (w/w)	GHS-US classification
citric acid monohydrate	(CAS-No.) 5949-29-1	< 2	Eye Irrit. 2A, H319

^{*}Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

persists

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : No particular fire or explosion hazard.

Reactivity : No dangerous reactions known.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all eye and skin contact and do not breathe vapour and mist.

6.1.1. For non-emergency personnel

Protective equipment : Refer to section 8.2.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Refer to section 8.2. Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation

of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when

not in use.

Incompatible products : Strong bases. Strong acids. Strong oxidizers.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

RAZE™ 0-3-2	
ACGIH	Not applicable
OSHA	Not applicable

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citric acid monohydrate (5949-29-1)	
ACGIH	Not applicable
OSHA	Not applicable

8.2. **Exposure controls**

Appropriate engineering controls : Avoid splashing. Emergency eye wash fountains and safety showers should be available in the

immediate vicinity of any potential exposure. Use only outdoors or in a well-ventilated area.

Personal protective equipment Avoid all unnecessary exposure.

Hand protection Wear suitable gloves resistant to chemical penetration.

Eye protection Chemical goggles or safety glasses.

Respiratory protection No special respiratory protection equipment is recommended under normal conditions of use

with adequate ventilation.

Other information Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties Physical state : Liquid Appearance : Turbid. Colour Green brown Odour : characteristic : No data available Odour threshold 3.02 - 3.52 рΗ Melting point : No data available No data available Freezing point Boiling point No data available Flash point No data available Relative evaporation rate (butylacetate=1) No data available : No data available Flammability (solid, gas) **Explosive limits** No data available : No data available Explosive properties Oxidising properties : No data available

Vapour pressure No data available : 1.062 - 1.077 Relative density Relative vapour density at 20 °C No data available Solubility : No data available Log Pow : No data available No data available Log Kow No data available Auto-ignition temperature Decomposition temperature No data available No data available Viscosity : No data available Viscosity, kinematic

Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, dynamic

No dangerous reactions known.

10.2. **Chemical stability**

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

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No data available

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10.4. **Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong bases.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

Information on toxicological effects

Likely routes of exposure : Inhalation; Skin and eye contact

Acute toxicity : Not classified

citric acid monohydrate (5949-29-1)	
LD50 oral rat	3400 mg/kg
ATE US (oral)	3400 mg/kg bodyweight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation : Not classified : Not classified Germ cell mutagenicity Carcinogenicity Not classified : Not classified Reproductive toxicity Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified exposure)

Aspiration hazard : Not classified

SECTION 12: Ecological information

Toxicity 12.1.

citric acid monohydrate (5949-2)	
LC50 fish 1	440 - 760 mg/l	
EC50 Daphnia 1	120 mg/l	

12.2. Persistence and degradability

RAZE™ 0-3-2	
Persistence and degradability	Not established.

12.3. **Bioaccumulative potential**

RAZE™ 0-3-2	
Bioaccumulative potential	Not established.
citric acid monohydrate (5949-29-1)	
Log Kow	-1.67

12.4. **Mobility in soil**

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated.

Additional information

Other information : No supplementary information available.

Transport by sea

IMDG

Transport hazard class(es) (IMDG) : Not applicable

Marine pollutant : No

Air transport

IATA

Transport hazard class(es) (IATA) : Not applicable

Marine pollutant : No

SECTION 15: Regulatory information

15.1. US Federal regulations

citric acid monohydrate (5949-29-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C)).

15.2. International regulations

CANADA

citric acid monohydrate (5949-29-1)

Listed on the Canadian DSL (Domestic Substances List) inventory.

15.3. US State regulations

No additional information available

SECTION 16: Other information

Data sources	: European Chemicals Agency (ECHA) Registered Substances list. Accessed at
	http://echa.europa.eu/. Krister Forsberg and S.Z. Mansdorf, "Quick Selection Guide to
	Chemical Protective Clothing", Fifth Edition. OSHA 29CFR 1910.1200 Hazard Communication
	Standard. TSCA Chemical Substance Inventory. Accessed at
	http://www.epa.gov/oppt/existingchemicals/pubs/tscainventory/howto.html.
Other information	: None.

Full text of H-statements:

H319	Causes serious eve irritation.

Abbreviations and acronyms:

ACGIH (American Conference of Government Industrial Hygienists)
ATE: Acute Toxicity Estimate
CAS (Chemical Abstracts Service) number
CLP: Classification, Labelling, Packaging.
EC50: Environmental Concentration associated with a response by 50% of the test population.
GHS: Globally Harmonized System (of Classification and Labeling of Chemicals
LD50: Lethal Dose for 50% of the test population
OSHA: Occupational Safety & Health Administration
STEL: Short Term Exposure Limits
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average

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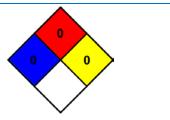
NFPA health hazard : 0 - Materials that, under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as

concrete, stone, and sand.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and not reactive with water.



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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