

ProCone Plant Growth Regulator Solution

SDS# VBC-0134 Revision 2

ISSUED 01/27/2020

[Classification according to OSHA; 29 CFR § 1910.1200, (3/12/2012)]

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY**1.1 Product Identifier****MATERIAL NAME:** ProCone Plant Growth Regulator Solution**Synonyms:** ABG-3149**EPA Reg No.:** 73049-32**Code Number:** 11899**List Number:** 11899**Chemical Family:** Gibberellins, naturally occurring plant growth regulators**1.2 Relevant Identified Uses and Uses Advised Against****Identified Uses:** Pesticide (Plant Growth Regulator)**Uses Advised Against:** It is a violation of Federal law to use this product in a manner inconsistent with its FIFRA pesticide labeling.**1.3 Details of the supplier of the Safety Data Sheet****Supplied By:** Valent BioSciences LLC
1910 Innovation Way, Suite 100
Libertyville, Illinois 60048**1.4 EMERGENCY TELEPHONE NUMBERS****Emergency Health or Spill:**

Outside the United States: (01) 651-632-6184

Within the United States: 877-315-9819

2. HAZARDS IDENTIFICATION**2.1 Classification of the Substance or Mixture**

Eye irritation – Category 2A

Reproductive toxicity – Category 2

Flammable liquid – Category 4

2.2 Labeling Elements**Symbol(s)****Signal Word**

Warning



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Hazard Statement(s)

Causes serious eye irritation
Suspected of damaging fertility or the unborn child
Combustible liquid

Precautionary Statement:

Prevention

Wash hands and face thoroughly after handling.
Wear protective gloves/ protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. NO SMOKING.

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.
If exposed or concerned: Get medical advice/attention.
In case of fire use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

Dispose of contents/container in accordance with local/regional/national regulations.

2.3 Other Hazards

None identified.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Active Ingredient - Name	Percent
Mixture	Gibberellin A4 + A7 (90% Technical)	4.4 (4.0)
97-99-4	Tetrahydrofurfuryl alcohol	95.6

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

GENERAL: In all cases of doubt, seek medical attention.

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EYES: Remove from source of exposure. Flush with copious amounts of water. Remove contact lenses, if present and easy to do, after the first 5 minutes, then continue rinsing. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

SKIN: Remove from source of exposure. Take off contaminated clothing. Flush with copious amounts of water. If irritation persists or signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary.

INGESTION: Remove from source of exposure. Move person to fresh air. Do NOT induce vomiting. Rinse mouth with water. If signs of toxicity occur, seek medical attention. Provide symptomatic /supportive care as necessary.

INHALATION: Remove from source of exposure. If signs of toxicity occur, seek medical attention. Provide symptomatic/supportive care as necessary. If person is not breathing, call 911, and then give artificial respiration.

4.2 Most important Symptoms and Effects, both Acute and Delayed

Acute and Delayed

The most important known symptoms and effects are described in section 2 and 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

Treat symptomatically and supportively

5. FIRE FIGHTING PROCEDURES

5.1 Extinguisher Media

Suitable Extinguisher Media

Water spray, alcohol resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguisher Media

None known

5.2 Specific Hazards Arising from the Chemical

None known.

Thermal decomposition products

Carbon oxides.

5.3 Advice to Firefighters

Protective Equipment and precautions for firefighters

Fire fighter should wear full-face, self-contained breathing apparatus and impervious protective clothing. Fire fighters should avoid inhaling combustion products. See Section 8 (Exposure Controls / Personal Protection).

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6. ACCIDENTAL RELEASE MEASURES**6.1 Personal Precautions, Protective Equipment and Emergency Procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

6.2 Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and Materials for Containment and Cleaning Up

Ventilate area. Wear appropriate personal protective equipment. Contain spillage and recover product with inert material (earth, sand, vermiculite), place into appropriate container for disposal.

6.4 Reference to Other Sections

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations. See Section 13 for Disposal Considerations.

US Regulations may require reporting spills of hazardous materials: See Section 15: Regulatory Information for details on reportable quantities, if any.

7. HANDLING AND STORAGE**7.1 Precautions for Safe handling**

Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Do not eat, drink, chew gum or smoke while working with product, obey reasonable safety precautions and practice good housekeeping. Keep away from sources of ignition – NO SMOKING. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for Safe Storage, Including and Incompatibilities

Keep container tightly closed in a dry well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Incompatibilities

Hygroscopic

7.3 Specific End Use(s)

Plant Growth Regulator product.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Tetrahydrofurfuryl alcohol	97-99-4	TWA	0.5 ppm	USA. Workplace Environmental Exposure Levels (WEEL)

Derived No Effect Levels (DNELs)

No DNELs available

Predicted No Effect Concentrations (PNECs)

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact - Material: butyl-rubber (Minimum layer thickness: 0.3 mm; Break through time: 480 min)

Splash contact - Material: Nitrile rubber (Minimum layer thickness: 0.4 mm; Break through time: 30 min)

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear Colorless Liquid	Odor:	Not determined
pH:	2.97 (5% sol'n)	Bulk density:	1.054 g/cm ³
Melting Point:	-80 ^o C (1112 ^o F)	Solubility (H ₂ O):	250 g/l at 20 ^o C
Initial Boiling Point:	176 ^o C (352 ^o F)	Flash Point:	75 ^o C (167 ^o F)
Partition coefficient; n-octanol/water:	Log P _{ow} : -0.139 at 24.7 ^o C	Oxidizing/reduction action (Chemical incompatibility):	Not determined
Corrosion characteristics:	Not determined	Explosive properties:	Upper limit: 9.7% (V) Lower limit 1.5% (V)
Flammability:	Not determined	Vapor Pressure:	1.86 hPa
Oxidizing properties:	Not determined	Auto-ignition temp:	282 ^o C (540 ^o F)

10. CHEMICAL STABILITY AND REACTIVITY

10.1 Reactivity

Material does not pose a significant reactivity hazard.

10.2 Chemical Stability

Stable under ordinary conditions of use and storage.

10.3 Possibility of Hazardous Reactions

Does not undergo hazardous polymerization.

10.4 Conditions to Avoid

Heat, flames and sparks.

10.5 Incompatible Materials

Strong acids, strong oxidizing agents and strong reducing agents.

10.6 Hazardous Decomposition Products

No data available.

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11. TOXICOLOGICAL INFORMATION**11.1 Information on Toxicological Effects**Likely Routes of Exposure

Inhalation: Yes
Eye Contact: Yes
Skin Contact: Yes
Ingestion: Not likely

Product (Toxicity from Primary Component; unless noted) Toxicology:Acute Effects

Oral Toxicity: LD₅₀ > 2,000 mg/kg bw (rat)
LD₅₀ > 2,100 mg/kg bw (Final product data)
Dermal Toxicity: LD₅₀ > 2,000 < 5,000 mg/kg bw (Final product data)
Inhalation Toxicity: 3.64 mg/L (Final Product Data)
Dermal Irritation: No skin irritation (Rabbit)
Ocular Irritation: Irritating to eyes (Rabbit)
Dermal Sensitization: Does not cause skin sensitization (OECD Test - 429)
Mutagenicity Information: Components of this product are not listed as mutagens.
Carcinogenicity Information: Components of this product are not listed as carcinogenic by ACGIH, NTP, IARC or OSHA.
Developmental/Reproductive Toxicity: Rat – male & female – Oral: Paternal Effects: Testes, epididymis, sperm duct. Spermatogenesis (including genetic material, sperm morphology, motility and count). Endocrine Effect: Effect on menstrual cycle.
Special Target Organ: Single exposure - No data available
Repeat exposure – No data available
Aspiration Hazard: No data available
Repeat Dose: Rat – male & female oral – NOAEL: 35 mg/kg
Additional Information: Effects due to ingestion may include: narcosis, lung oedema, liver and kidney injury may occur.

12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity**

Fish: LC₅₀ > 101 mg/L (96-H, *Oryzias latipes*)
Aquatic Invertebrates: EC₅₀ > 91.7 mg/L (48-H) (*Daphnia magna*)
Algae: EC₅₀ > 98.9 mg/L (*Selenastrum capricornutum*)

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12.2 Persistence and Degradability

Product is readily biodegradable.

12.3 Bioaccumulation potential

No data available.

12.4 Mobility in Soil

No data available.

12.5 Results of PBT and vPvB assessment

Assessments not performed

12.6 Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS**13.1 Waste Disposal Methods**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Dispose of product in accordance with federal, state, provincial, and local regulations. Prevent contamination of environment by wastes.

14. TRANSPORTATION INFORMATION**DOT**

STATUS: Regulated

UN PROPER SHIPPING NAME: NA1993 Combustible liquid, n.o.s. (Tetrahydrofurfuryl alcohol)

Packing Group: III

REMARKS: Not regulated by DOT in non-bulk packaging (<119 gal capacity)
[See CFR 49 173.150(f)].**IATA/ICA0**

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: Flashpoint above 73.5°C considered non-flammable

IMDG

STATUS: Not Regulated

PROPER SHIPPING NAME: N/A

REMARKS: Flashpoint above 73.5°C considered non-flammable

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15. REGULATORY INFORMATION**15.1 Safety, Health and Environmental Regulations / Specific Legislation**

TSCA STATUS: Not Listed

CERCLA STATUS: Not regulated as hazardous

SARA STATUS: Acute: Yes Chronic: Yes Fire: Yes CDT: No

RCRA STATUS: Not regulated as hazardous

State Right-To-Know:

Massachusetts

Tetrahydrofurfuryl alcohol CAS# 97-99-4

Pennsylvania

Tetrahydrofurfuryl alcohol CAS# 97-99-4

New Jersey

Tetrahydrofurfuryl alcohol CAS# 97-99-4

Consult applicable national, state provincial or local laws to determine regulations, laws or ordinances which may be applicable.

15.2 FIFRA – Pesticide Labeling

EPA registration Number: 73049-32

EPA Pesticide Label signal word: WARNING

Product must have EPA Approved Pesticide Label attached or accompanying all containers.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions and limitations for its use.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS****WARNING**

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through skin. Wear goggles and face shield. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.



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ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store below 77°F (25°C). Keep containers tightly closed when not in use. Do not freeze.

PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available puncture and dispose of the container in a sanitary landfill, or by other procedures approved by state and local authorities.

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2
Flammability: 2
Instability: 0

HMIS Hazard Ratings

Health: 2
Flammability: 2
Instability: 0

0 = minimal
1 = slight
2 = moderate
3 = serious
4 = Extreme

REASON FOR ISSUE: Address Change

APPROVAL DATE: 01/27/2020

SUPERSEDES DATE: 06/01/2018



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LEGEND: N/A = Not Applicable
N/L = Not Listed
C = Ceiling
(R) = Registered Trademark of Valent BioSciences LLC
(TM) = Registered Trademark of Valent BioSciences LLC

N/D = Not Determined
L = Listed
S = Short-term

The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Valent BioSciences LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Valent BioSciences LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Valent BioSciences LLC to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.



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