# AMVAC

# SAFETY DATA SHEET

## 1. Identification

Product identifier SmartBlock®

Other means of identification

SDS number 369

CAS number 10519-33-2 Product registration 5481-571

number

Synonyms 3-Decen-2-one \* SmartBlock® 98% Technical

Recommended use Potato sprout inhibitor

**Recommended restrictions** Keep out of the Reach of Children!

**EPA Registration number** EPA: 5481-571

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name AMVAC Chemical Corporation

Address 4685 MacArthur Court

Suite 1200

Newport Beach, CA 92660

**Telephone** AMVAC Chemical Corp 949-260-1200

AMVAC Chemical Corp 949-260-6270(FAX)

Website www.Amvac-Chemical.com

E-mail CustServ@Amvac-Chemical.com

Emergency phone number Medical 888-681-4261

CHEMTREC® 800-424-9300

(USA+Canada)

Product Use 888-462-6822 CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Warning

**Hazard statement** 

H332 Harmful if inhaled.

H316 Causes serious skin irritation.
H319 Causes moderate eye irritation.

**Precautionary statement** 

Prevention

P261 Avoid breathing mist or vapor.

Material name: SmartBlock®

P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.

#### Response

P304 + P340 P311	IF INHALED: Remove victim to fresh air and keep at rest in a Call a POISON CENTER/doctor.	position comfortable for	breathing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.		
P332 + P313	If skin irritation occurs: Get medical advice/attention.		
P362	Take off contaminated clothing and wash before reuse.		
P305 + P351 +	IE IN EVES: Dinco continuely with water for coveral minutes	Pomovo contact longes	if procent

P338 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. P337 + P313

Collect spillage. P391

Storage

Store in a cool, dry area P402 + P404

**Disposal** 

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Hazard(s) not otherwise classified (HNOC)

Supplemental information

This 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 in section 15. The pesticide label also includes other important information, including directions for use.

# 3. Composition/information on ingredients

#### **Substances**

Chemical name	Common name and synonyms	CAS number	%
3-Decen-2-one	3-Decen-2-one SmartBlock® 98% Technical		
Impurities			
Chemical name	Common name and synonyms	CAS number	%
Related Compounds		N/A	≤2.0

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get

medical advice/attention. Wash contaminated clothing before reuse.

Eye contact Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Drink 1 or 2 glasses of water. Never give Ingestion

anything by mouth to a victim who is unconscious or is having convulsions.

Most important symptoms/effects, acute and

delaved

Contact with the skin may cause skin irritation. Contact with the eyes causes tearing and pain that will subside after a short period of time. Inhalation may cause shortness of breath.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Material name: SmartBlock® SDS US Specific hazards arising from

the chemical

No unusual fire or explosion hazards noted.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

equipment/instructions

Move containers from fire area if you can do it without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Not available.

Methods and materials for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk, to prevent entry into waterways, sewer, basements or confined areas. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Avoid breathing mist. Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment recommended in section 8. Avoid release to the environment. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs. Use only outdoors or in a well-ventilated area.

Conditions for safe storage, including any incompatibilities Store locked up. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines** 

AMVAC recommended PEL = 200 mg/m3.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Eye wash facilities and emergency shower must be available when handling this product.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear appropriate chemical resistant clothing (see label). Other

Respiratory protection Not available.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

A colorless to a slightly yellow color **Appearance** 

Physical state Liquid. **Form** Watery liquid.

Color Colorless to light yellow.

Material name: SmartBlock® 1391 Version #: 4.0 Revision date: Nov-27-2018 Issue date: Oct-18-2016 Odor Jasmine

Odor threshold Not established

pH 4.33 (1% dispersion)

Initial boiling point and boiling

Melting point/freezing point

range

Not determined 435 °F (224 °C)

Flash point 225 °F (107 °C) Cleveland Open Cup

Evaporation rate Not determined Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 430 Pa (3.23 mm Hg) at 25 °C

Vapor density Not available.

Relative density 0.845 g/cm3

Solubility(ies)

Solubility (water) 0.14 g/l in water

Auto-ignition temperature 446 °F (230 °C)

Decomposition temperature Not available.

Viscosity Not available.

Other information

Bulk density 7.05 lb/gal

**Explosive properties**This product has been tested and has no explosive properties.

Molecular formula C10H18O Molecular weight 154.25 g/mol

Oxidizing properties No oxidizing properties.

Percent volatile > 99 % Specific gravity 0.845

# 10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

**Conditions to avoid**Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation Harmful if inhaled.

**Skin contact** Causes severe skin irritation.

**Eye contact** Moderate Irritation

3-Decen-2-one Draize

Result: Moderately irritating

Species: Rabbit Organ: Eye

**Ingestion** May cause discomfort if swallowed.

Material name: SmartBlock® SDS US

Symptoms related to the physical, chemical and toxicological characteristics

Contact with the skin may cause skin irritation. Contact with the eyes causes tearing and pain that will subside after a short period of time. Inhalation may cause shortness of breath. Causes eye irritation. Causes severe skin irritation.

## Information on toxicological effects

Acute toxicity

Acute and toxicological and mutagenicity data for this product are given below. The long-term toxicological properties of this potato sprout inhibitor have not been determined. Care should be taken with chemicals that have not been thoroughly investigated. Harmful if inhaled. Causes severe skin irritation. Causes eye irritation.

Product Species Test Results

3-Decen-2-one (CAS 10519-33-2)

Acute Dermal

LD50 Rabbit > 5000 mg/kg

Inhalation

LC50 Rat > 2.04 mg/l, 4 h Females

0.52 - 2.04 mg/l, 4 h Males

Oral

LD50 Rat > 5000 mg/kg Females

**Skin corrosion/irritation** Causes severe skin irritation.

**Irritation Corrosion - Skin** 

3-Decen-2-one Draize

Result: Severe irritant Species: Rabbit

Serious eye damage/eye

irritation

Causes eye irritation.

**Eye Contact**3-Decen-2-one Draize

Result: Moderately irritating

Species: Rabbit Organ: Eye

Respiratory or skin sensitization

**Respiratory sensitization** No data available. **Skin sensitization** Not a sensitizer.

Sensitization

3-Decen-2-one Result: Not a sensitizer

Germ cell mutagenicity

This product is not considered to be mutagenic. Non-mutagenic in bacterial reverse mutation

assay, in an In Vivo Liver unscheduled DNA Synthesis assay and no evidence of clastogenicity or aneugenicity in the mouse micronucleus assay. Mouse lymphoma assay showed limited evidence

of mutagenicity i.e. without metabolic activation only.

**Carcinogenicity** Not listed as being carcinogenic.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not classified.

Specific target organ toxicity - No data available

Specific target organ toxicity -

repeated exposure

single exposure

No data available

**Aspiration hazard** No data available

12. Ecological information

**Ecotoxicity**Do not apply directly to water, to areas where surface water is present, or to intertidal areas below

the mean high water mark.

Material name: SmartBlock®

Persistence and degradability No data is available on the degradability of this product. 3-Decen-2-one is considered to be readily

biodegradable, but fails the 10-day window.

Bioaccumulative potential

Not available. Not available. Mobility in soil Other adverse effects Not available.

13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with all applicable

local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal methods/information).

Empty containers should be taken to an approved waste handling site for recycling or disposal Contaminated packaging according to all applicable regulations. Since emptied containers may retain product residue,

follow label warnings even after container is emptied.

# 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not available.

15. Regulatory information

**US federal regulations** 

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910,1200.

This product is registered under EPA/FIFRA Regulations. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This 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 for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

WARNING

Causes skin irritation and substantial but temporary eye injury. Harmful if inhaled. Do not get on skin or on clothing. Avoid contact with eyes. Avoid breathing vapors.

**ENVIRONMENTAL HAZARDS** 

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not allow this material to drift onto neighboring crops or non crop areas or use in a manner or at a time other than in accordance with label directions because animal, plant or crop injury, illegal residues, or other undesirable results may occur.

**Toxic Substances Control Act (TSCA)** 

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

Material name: SmartBlock® SDS US

# SARA 304 Emergency release notification

Not regulated.

## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

## SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard Acute toxicity (any route of exposure)

categories Skin corrosion or irritation

Serious eye damage or eye irritation

## SARA 313 (TRI reporting)

Not regulated.

## Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

## US state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue dateOct-18-2016Revision dateNov-27-2018

Version # 4.0
HMIS® ratings Hea

Health: 2 Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0 Instability: 0

Material name: SmartBlock® SDS US

#### Disclaimer

This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user's responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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CHEMTREC is a trademark of the American Chemistry Council, Inc.

HMIS is a trademark of the American Coatings Association.

NFPA is a trademark of the National Fire Protection Association, Inc.

Product and Company Identification: Alternate Trade Names

Hazard(s) identification: Supplemental information Toxicological information: Inhalation

Regulatory information: Canadian regulations

**Revision information** 

Material name: SmartBlock® sps us

1391 Version #: 4.0 Revision date: Nov-27-2018 Issue date: Oct-18-2016