SAFETY DATA SHEET

1. Identification

Product identifier SmartChoice™ HC

Other means of identification

464 SDS number

5481-579 **Product registration**

number

Recommended use

Organophosphate insecticide. For control of corn rootworms, cutworms and other listed soil insect

pests in corn.

This is a Restricted Use Pesticide and is for use in the SmartBox® enclosed system. Recommended restrictions

Keep out of the Reach of Children!

EPA Registration number EPA: 5481-579

Manufacturer/Importer/Supplier/Distributor information

AMVAC Chemical Corporation Company Name

4695 MacArthur Court Address

Suite 1200

Newport Beach, CA 92660

United States

Telephone

AMVAC Chemical Corp 949-260-1200 949-260-6270(FAX) **AMVAC Chemical Corp Product Use** 888-462-6822 Website www.amvac.com

CustServ@amvac.com E-mail

Emergency phone number

Medical 888-681-4261 **CHEMTREC®** 800-424-9300

(USA+Canada)

CHEMTREC® (Outside +1-703-527-3887

USA)

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Acute toxicity, oral Category 3

> Acute toxicity, dermal Category 4 Acute toxicity, inhalation Category 2 Carcinogenicity Category 1A

Environmental hazards Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Material name: SmartChoice™ HC 1447 Version #: 4.0 Revision date: Nov-16-2023 Issue date: Apr-06-2016 Hazard statement Toxic if swallowed.

Harmful in contact with skin.

Fatal if inhaled.

May cause cancer by inhalation.

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear respiratory protection.

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

Do not breathe dust.

Avoid release to the environment. Wash thoroughly after handling.

Response If swallowed: Immediately call a poison center/doctor. Rinse mouth.

If on skin: Wash with plenty of water. Call a poison center/doctor if you feel unwell.

Take off contaminated clothing and wash before reuse.

If inhaled: Remove person to fresh air and keep comfortable for breathing. Immediately call a

poison center/doctor.

If exposed or concerned: Get medical advice/attention.

Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

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

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Chlorethoxyfos	O,O-Diethyl O-(1,2,2,2-tetrachloroethyl)phosphorothio ate Fortress®	54593-83-8	12.9
Bifenthrin	Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl] -2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-	82657-04-3	2.1
Carrier		1318-93-0	70 - 85

4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If person is not

breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if

possible. Call a physician or poison control center immediately.

Skin contact Remove contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes.

Call a physician or poison control center for treatment advice.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Hold the eyelids apart during

the flushing to ensure rinsing of the entire surface of the eyes and lids with water. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a physician or poison

control center for treatment advice.

Ingestion Call a physician or poison control center immediately. Have person sip a glass of water if able to

swallow. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low

so that stomach content doesn't get into the lungs.

Material name: SmartChoice™ HC

Most important symptoms/effects, acute and delayed

Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision. tightness in chest, weakness, muscle twitching and confusion; in extreme cases unconsciousness, convulsions, severe respiratory depression and death may occur.

Repeated exposures to small doses of organophosphates may lower the cholinesterase to levels where the above symptoms of acute overexposure are observed.

Indication of immediate medical attention and special treatment needed

This product is an Organophosphate (OP) Insecticide. Do not handle the patient without the following protective equipment in place: chemical resistant gloves and apron (preferably nitrile). Remove contaminated clothing and do not reuse without thorough cleaning with detergent and hot water. Do not wait for laboratory confirmation to treat patients with strong clinical evidence of poisoning. In the USA and other countries, contact your local or national poison control center for more information.

Establish airway and oxygenation. IV Atropine sulfate is the antidote of choice against parasympathetic nervous stimulation. If there are signs of parasympathetic stimulation, Atropine Sulfate should be injected at 10 minute intervals in doses of 1 to 2 milligrams until complete atropinization has occurred. Pralidoxime chloride (2-PAM chloride) may also be used as an effective antidote in addition to and while maintaining full atropinization. In adults, an initial dose of 1 gram of 2-PAM should be injected, preferably as an infusion, in 250 cc of saline over a 15 to 20 minute period. If this is not practical, 2-PAM may be administered slowly by intravenous injection as a 5% solution in water over not less than 2 minutes. After about an hour, a second dose of 1 gram of 2-PAM will be indicated if muscle weakness has not been relieved. For infants and children, the dose of 2-PAM is 0.25 grams. Avoid morphine, aminophylline, phenothiazine, reserpine, furosemide and ethacrynic acid. Clear chest by postural drainage. Oxygen administration may be necessary. Observe patient continuously for 48 hours. Repeated exposure to cholinesterase inhibitors may, without warning, cause prolonged susceptibility to very small doses of any cholinesterase inhibitor. Allow no further exposure until time for cholinesterase regeneration has been attained as determined by a blood test. Bathe and shampoo contaminated skin and hair. If ingested, empty stomach; activated charcoal is useful to further limit absorption. If victim is alert, Syrup of Ipecac (2 tablespoons in adults, 1 tablespoon in small children) is indicated. If symptoms such as loss of gag reflex, convulsions, or unconsciousness occur before emesis, gastric lavage should be considered following intubation with a cuffed endotracheal tube.

Keep victim under observation. Keep victim warm. Symptoms may be delayed.

General information

If exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. This product is a cholinesterase inhibitor. A physician should be contacted in all cases of exposure to the technical and its formulations.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting equipment/instructions

Specific methods General fire hazards

Water spray. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). None known.

During fire, gases hazardous to health may be formed.

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

Use water spray to cool unopened containers. Dike and collect extinguishing water.

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

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Shovel the material into waste container. Clean surface thoroughly to remove residual contamination. Decontaminate the area and equipment with dilute alkali or ammonia (less than 5%) and detergent.

Never return spills to original containers for reuse.

Material name: SmartChoice™ HC

SDS US

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Avoid release to the environment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from food, drink and animal feedstuffs. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Permissible Impurities	e Exposure Limits (PEL) for Air Type	Contaminants (29 CFR 1910.10 Value	000) Form
Crystalline Silica (CAS 14808-60-7)	PEL	0.05 mg/m3	Respirable dust.
US. OSHA Table Z-3 Permissible	Exposure Limits (PEL) for Min	eral Dusts (29 CFR 1910.1000)	
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable.
US. ACGIH Threshold Limit Value	ies (TLV)		
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
NIOSH. Immediately Dangerous	to Life or Health (IDLH) Values,	as amended	
Impurities	Туре	Value	
Crystalline Silica (CAS 14808-60-7)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Ch	emical Hazards Recommended	Exposure Limits (REL)	
Impurities	Туре	Value	Form
Crystalline Silica (CAS 14808-60-7)	TWA	0.05 mg/m3	Respirable dust.

Biological limit values

Appropriate engineering controls

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

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.

Ensure adequate ventilation. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Refer to the product label for additional Engineering Controls.

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. Barrier laminate, Butyl rubber ≥14 mils, Nitrile

Rubber ≥14 mils, Neoprene rubber ≥14 mils, Polyethylene, Polyvinyl chloride (PVC) ≥14 mils, or

Viton ≥14 mils.

Other Long-sleeved shirt and long pants or coveralls, socks and closed toe shoes are required.

exceeding the exposure limits.

Thermal hazards Not applicable.

General hygiene considerations

Keep away from food and drink. 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.

Material name: SmartChoice™ HC

9. Physical and chemical properties

Gray to reddish brown clay granule **Appearance**

Solid. **Physical state Form** Granular.

Color Gray to reddish brown Slight aromatic solvent odor. Odor

Odor threshold Not available. Not available. pН Melting point/freezing point Not available. Initial boiling point and boiling

range

Not available.

Not available. Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas)

Upper/lower flammability or explosive limits Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%)

Vapor pressure 2.08 mm Hg from aromatic solvent

11.6 Vapor density Relative density 0.72

Solubility(ies)

Solubility (water) 3 ppm (68 °F (20 °C))

Solubility (solvents) Aliphatic and aromatic solvents, ketones.

Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Viscosity

The data presented in this section are typical values and should not be construed as a Other information

specification.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Material is stable under normal conditions. Chemical stability Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials. Incompatible materials Strong oxidizing agents. Strong bases.

Hazardous decomposition Heating product to decomposition will cause emission of acid smoke and fumes of phosphorus

oxides, and carbon oxides. products

11. Toxicological information

Information on likely routes of exposure

Inhalation Fatal if inhaled. May cause cancer by inhalation.

Harmful in contact with skin. Skin contact

Mild irritant. Eye contact

Ingestion Toxic if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Acute cholinesterase depression may be evidenced by headache, nausea, vomiting, diarrhea, abdominal cramps, excessive sweating, salivation and tearing, constricted pupils, blurred vision,

tightness in chest, weakness, muscle twitching and confusion; in extreme cases, unconsciousness, convulsions, severe respiratory depression and death may occur.

Contact with Bifenthrin may occasionally produce skin sensitization such as rashes, numbing,

burning or tingling.

Information on toxicological effects

Fatal if inhaled. Toxic if swallowed. Harmful in contact with skin. Acute toxicity

Material name: SmartChoice™ HC SDS US Product Species Test Results

SmartChoice™ HC

Acute Dermal

LD50 Rabbit 2080 mg/kg (male)

1217 mg/kg (female)

Inhalation

Dust

LC50 Rat 0.53 mg/l (female)

0.05 mg/l (male)

Oral

LD50 Rat 132 mg/kg (female)

Skin corrosion/irritation Serious eye damage/eye irritation Not a skin irritant. Mild irritant.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization Non-irritating

Germ cell mutagenicity Not classified.

Carcinogenicity May cause cancer. Respirable crystalline silica is listed as being carcinogenic by both IARC and

NTP. Prior to incorporation of the active ingredient(s) onto the carrier It is present at less than 1% of the carrier in the product. Incorporation of the active ingredient(s) is likely to remove the

crystalline silica from the respirable range of particles.

Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. EPA has classified Bifenthrin as a class C carcinogen, a possible human carcinogen. None of the following agencies have classified Bifenthrin as carcinogenic:

IARC, NTP, OSHA or ACGIH.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (CAS 14808-60-7) 1 Carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7) Cancer

US. National Toxicology Program (NTP) Report on Carcinogens

Crystalline Silica (CAS 14808-60-7) Known To Be Human Carcinogen.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Nervous system through cholinesterase inhibition.

Specific target organ toxicity -

repeated exposure

Potential neurotoxicity as an organophosphate.

Aspiration hazard Not an aspiration hazard.

Chronic effects Repeated exposures to small doses of organophosphates may lower the cholinesterase to levels

where the symptoms of acute overexposure are observed.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components Species Test Results

Bifenthrin (CAS 82657-04-3)

Aquatic Acute

Crustacea LC50 Water flea (Ceriodaphnia dubia) 0 - 0.0002 mg/l, 48 hours

Water flea (Daphnia magna) 0.0001 - 0.0009 mg/l, 48 hours

sps us 6 / 10

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Bifenthrin < 6

Mobility in soil No data available.

Material name: SmartChoice™ HC 1447 Version #: 4.0 Revision date: Nov-16-2023 Issue date: Apr-06-2016 Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Return the damaged SmartBox® container to AMVAC Chemical Corporation. See box label for more complete instructions. Collect and reclaim or dispose in sealed containers at licensed waste disposal site according to all applicable regulations. 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 spilled contents in accordance with all applicable

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable 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

Dispose of in accordance with all applicable regulations. 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).

Contaminated packaging

Empty SmartBox® containers should be returned to AMVAC Chemical Corporation per instructions provided. See the label on the container for more complete information. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number UN2783

UN proper shipping name Transport hazard class(es) Organophosphorus pesticides, solid, toxic (Chlorethoxyfos, Bifenthrin)

Class 6.1 Subsidiary hazard Label(s) 6.1 Packing group Ш **Environmental hazards**

Marine pollutant

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB8. IP2. IP4. N77. T3. TP33 Special provisions

Packaging exceptions Packaging non bulk 212 Packaging bulk 242

IATA

UN number

UN proper shipping name Organophosphorus pesticide, solid, toxic (Chlorethoxyfos, Bifenthrin)

Transport hazard class(es)

Class 6.1 Subsidiary hazard Ш Packing group **Environmental hazards** No **ERG Code**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN2783

ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (Chlorethoxyfos, Bifenthrin), MARINE **UN** proper shipping name

POLLUTANT

Transport hazard class(es)

Class 6.1 **Subsidiary hazard** Packing group Ш **Environmental hazards**

Yes Marine pollutant F-A, S-A **EmS**

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Material name: SmartChoice™ HC 1447 Version #: 4.0 Revision date: Nov-16-2023 Issue date: Apr-06-2016

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Severe Marine Pollutant.

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 as a RESTRICTED USE PESTICIDE. 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 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 for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

WARNING: May be fatal if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear a mask or pesticide respirator jointly approved by the Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. Wear long-sleeved shirt, long pants, socks, chemical resistant footwear, and chemical resistant gloves such as Natural Rubber, Selection Category A). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse. For handling activities, use a non-powered air purifying respirator equipped with an N-, R-, or P-series filter. When mixing or loading wear a chemical resistant apron.

Repeated exposure can lead to an asymptomatic increase in the susceptibility to poisoning. Avoid prolonged exposure to the product.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to mammals, birds, fish, and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Crystalline Silica (CAS 14808-60-7)

lung effects

immune system effects

kidney effects

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)

Carcinogenicity categories

SARA 313 (TRI reporting)

Chemical name CAS number % by wt. Bifenthrin 82657-04-3

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.

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Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

California Proposition 65



WARNING: This product can expose you to Crystalline Silica, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Crystalline Silica (CAS 14808-60-7) Listed: October 1, 1988

International Inventories

Country(s) or region Inventory name On inventory (yes/no)* Toxic Substances Control Act (TSCA) Inventory United States & Puerto Rico

*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 date Apr-06-2016 Revision date Nov-16-2023

Version #

HMIS® ratings Health: 3*

Flammability: 0 Physical hazard: 0

Health: 3 NFPA ratings

Flammability: 0 Instability: 0

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.

Revision information

This document has undergone significant changes and should be reviewed in its entirety.

Material name: SmartChoice™ HC SDS US