

SAFETY DATA SHEET

Category 4

1. Identification

Product identifier EVITAL® 5G

Other means of identification

SDS number 303

Product registration

5481-506

number

Herbicide. Recommended use

Recommended restrictions See product label for restrictions.

Keep out of the Reach of Children!

EPA: 5481-506 **EPA Registration number**

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

AMVAC Chemical Corporation Company name

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Suite 1200

Newport Beach, CA 92660

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

> **AMVAC Chemical Corp** 949-260-6270(FAX)

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Emergency phone number Medical 888-681-4261 **CHEMTREC®** 800-424-9300

(USA+Canada)

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

USA)

2. Hazard(s) identification

Not classified. Physical hazards

Acute toxicity, inhalation **Health hazards**

Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements



Signal word Warning

Hazard statement Harmful if inhaled.

Precautionary statement

Avoid breathing dust. Use only outdoors or in a well-ventilated area. Prevention

Response If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison

center/doctor if you feel unwell.

Store away from incompatible materials. Storage

Dispose of waste and residues in accordance with local authority requirements. **Disposal**

Hazard(s) not otherwise

classified (HNOC)

None known.

Material name: EVITAL® 5G SDS US

895 Version #: 2.0 Revision date: Aug-10-2020 Issue date: May-13-2015

Supplemental information

United States Environmental Protection Agency Labeling Requirements:

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

Mixtures

Chemical name	Common name and synonyms	CAS number	%
NORFLURAZON TECH		27314-13-2	5
Additional components			
Chemical name	Common name and synonyms	CAS number	%
Inert ingredients		N/A	95

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

Rinse with water. Get medical attention if irritation develops and persists.

Eve contact Ingestion

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Most important

General information

Rinse mouth. Get medical attention if symptoms occur.

symptoms/effects, acute and

Direct contact with eyes may cause temporary irritation.

delayed Indication of immediate

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

medical attention and special treatment needed

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

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

Unsuitable extinguishing media

Not available.

Specific hazards arising from

the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

Not available.

and precautions for firefighters

Fire fighting

equipment/instructions

Use water spray to cool unopened containers.

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

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: If contaminated, shovel, sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use. Shovel up, sweep up or vacuum up the material and place in a container for salvage or disposal.

Environmental precautions

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

7. Handling and storage

Avoid breathing dust. Use only outdoors or in a well-ventilated area. Wear appropriate personal Precautions for safe handling

protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage,

Store in original tightly closed container. Store in a well-ventilated place. Store away from

Form

incompatible materials (see Section 10 of the SDS). including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Cor	ntaminants (29 (CFR 1910.	1000)
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Additional components	Туре	Value	Form
free respirable Crystalline	PEL	0.05 mg/m3	Respirable dust.
(quartz) Silica (CAS			

14808-60-7)

US. OSHA Table Z-3 (29 CFR 1910.1000)

Form Additional components Value Type free respirable Crystalline **TWA** 0.1 ma/m3 Respirable. (quartz) Silica (CAS

14808-60-7)

US. ACGIH Threshold Limit Values

Additional components Value **Form** Type **TWA** 0.025 mg/m3 free respirable Crystalline Respirable fraction.

(quartz) Silica (CAS 14808-60-7)

US. NIOSH: Pocket Guide to Chemical Hazards

Additional components	Туре	Value	Form	
free respirable Crystalline	TWA	0.05 mg/m3	Respirable dust.	

(quartz) Silica (CAS 14808-60-7)

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

Appropriate engineering

controls

General ventilation normally adequate.

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Wear suitable protective clothing. Other

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Thermal hazards Not available.

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

equipment to remove contaminants.

9. Physical and chemical properties

Grayish beige granule **Appearance**

Physical state Solid. **Form** Granular. Color Grayish beige Odor Odorless.

Odor threshold Not established (for Norflurazon)

рΗ 7 - 9 (1% dispersion)

345.2 - 356 °F (174 - 180 °C) (345 - 356°F) (for Norflurazon) Melting point/freezing point

Initial boiling point and boiling Not applicable to product

range

Flash point Not available.

Evaporation rate Not established (for Norflurazon)

Flammability (solid, gas) Not available.

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 1.00E-05 mm Hg @ 24°C (for Norflurazon)

Vapor densityNot applicableRelative density1.3 g/cm3

Solubility(ies)

Solubility (water) 33.7 ppm @ 25°C (for Norflurazon)

Solubility (solvents) The active ingredient, Norflurazon, is soluble in acetone and ethanol

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 81 lb/ft3
Specific gravity 1.8 estimated

10. Stability and reactivity

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

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 Peroxides. Fluorine. Chlorine. Phenols.

Hazardous decomposition

products

No hazardous decomposition products are known. This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated

excessively or burned. WEAR SELF-CONTAINED BREATHING APPARATUS when these

conditions are present.

11. Toxicological information

Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Harmful if inhaled.

Product Species Test Results

EVITAL® 5G

<u>acute</u>

dermal

LD50 rabbit > 2000 mg/kg body weight

inhalation

LC50 rat > 2.5 mg/L, 4 hr for Norflurazon

Product Species Test Results

oral

LD50 rat > 5000 mg/kg body weight

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

EVITAL® 5G , Not available for product. The presence of silica in the

carrier may cause irritation of the skin.

Organ: skin

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Irritation Corrosion - Eye

EVITAL® 5G , Not available for product. The presence of silica in the

carrier may cause irritation of the eyes.

Organ: eye

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Skin sensitization

EVITAL® 5G , Not available for product (Norflurazon is not a sensitizer).

Result: none Species: guinea pig

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Please note that the carrier is a natural mineral and as such may contain traces of Crystalline

Silica (CAS 14808-60-7).

IARC Monographs. Overall Evaluation of Carcinogenicity

free respirable Crystalline (quartz) Silica 1 Carcinogenic to humans.

(CAS 14808-60-7)

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

free respirable Crystalline (quartz) Silica Cancer

(CAS 14808-60-7)

US. National Toxicology Program (NTP) Report on Carcinogens

free respirable Crystalline (quartz) Silica Known To Be Human Carcinogen.

(CAS 14808-60-7)

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

EVITAL® 5G 280, @ pH 6.5, 20°C (for Norflurazon)

Mobility in soil No data available.

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 instructionsCollect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in

accordance with all applicable regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe 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 local 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

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

Read safety instructions, SDS and emergency procedures before handling.

IMDG

Not regulated as dangerous goods.

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

Not applicable.

15. Regulatory information

US federal regulations

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.

CAUTION! Harmful if absorbed through skin. Avoid contact with skin or clothing. Wash thoroughly with soap and water after handling.

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwater or rinsate. Do not apply directly to water, or to areas where surface water is present (except for application to cranberry bogs) 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. 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.

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)

free respirable Crystalline (quartz) Silica (CAS 14808-60-7)

Cancer

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

Classified hazard

chemical

Acute toxicity (any route of exposure)

categories

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.NORFLURAZON TECH27314-13-25

Other federal regulations

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

Yes

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



WARNING: WARNING: This product contains a chemical known to the State of California to cause cancer.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

free respirable Crystalline (quartz) Silica

Listed: October 1, 1988

(CAS 14808-60-7)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

free respirable Crystalline (quartz) Silica (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

On inventory (yes/no)*

No

*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 May-13-2015
Revision date Aug-10-2020

References ACGIH®: American Conference of Governmental Industrial Hygienists

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

EPA: Environmental Protection Agency

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act

IARC: International Agency for Research on Cancer

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Agency

SARA: Superfund Amendments and Reauthorization Act

TSCA: Toxic Substances Control Act DOT: Department of Transportation

IMDG: International Maritime Dangerous Goods IATA: International Air Transport Association

Version # 2.0

HMIS® ratings Health: 2

Flammability: 0 Physical hazard: 0

NFPA ratings Health: 2

Flammability: 0
Instability: 0

Disclaimer

Revision information

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.

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

Identification: Recommended restrictions

Hazard(s) identification: Supplemental information

Composition / Information on Ingredients: Disclosure Overrides

Accidental release measures: Methods for cleaning up

Accidental release measures: Methods and materials for containment and cleaning up

Toxicological Information: Toxicological Data Toxicological information: Carcinogenicity

Disposal considerations: Waste from residues / unused products

Transport information: DOT classification Transport information: IMDG classification Transport information: IATA classification Regulatory information: US federal regulations

Other information, including date of preparation or last revision: Disclaimer

GHS: Classification

Material name: EVITAL® 5G sps us