

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 11, 2020 Rev. 1.0

Product: 12636

Code: Alfanutritek Corn V

Print Date: June 11, 2020

SAFETY DATA SHEET

Alfanutritek Corn V

SECTION 1: IDENTIFICATION

- 1.1. Product Identifier used on the label
Trade name: Alfanutritek Corn V
- 1.2. Other means of identification
Trade code: 12636
- 1.3. Recommended use of the chemical and restrictions on use:
Fertilizer
- 1.4. Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:
Produced and packed by:
VALAGRO Spa
Via Cagliari, 1 Zona Industriale
66041 Atesa (CH) ITALY
Tel. (+39) 08728811 Fax (+39) 0872881382
www.valagro.com

Distributed and guaranteed by:
Valagro USA Inc.
2020 Ponce de Leon Blvd, Ste. 1203
Coral Gables, FL 33134
Phone +1-786-230-1020 / +1-786-230-1019


Competent person responsible for the safety data sheet:

regulatory@valagro.com

- 1.4. Emergency telephone number:
Valagro USA Inc Phone +1-786-230-1020 / +1-786-230-1019

SECTION 2: HAZARD(S) IDENTIFICATION

- 2.1. Classification of the chemical in accordance with paragraph (d) of §1910.1200;

 Warning, Eye Irrit. 2A, Causes serious eye irritation

- 2.2. Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200:

Hazard pictograms:



Warning

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Causes serious eye irritation.

Wash hands, forearms and face thoroughly after handling.

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

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.

First Aid:

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.

Eye Contact : Rinse cautiously with water for several minutes holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or physician.

Ingestion : Rinse mouth with water. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person. Immediately call a doctor

Skin Contact: Remove all contaminated clothing. Rinse with plenty of soap and water.

2.3. Hazards not otherwise classified that have been identified during the classification process:
 None

2.4. Ingredient(s) with unknown acute toxicity:
 None component with unknown acute toxicity is present in the mixture

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

3.1 Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Name	Product identifier	%	Classification
Polyphosphoric acids, ammonium salts	(CAS-No.) 68333-79-9 (EC-No.) 269-789-9 (REACH-no) 01-2120090300-70	>= 5 - < 9	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Phosphoric acid	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	>= 5- < 7	Skin Corr. 1B, H314
Boric acid (H3BO3) substance listed as REACH Candidate (Boric acid)	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	>= 0,1 - < 0,3	Repr. 1B, H360FD
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
Phosphoric acid	(CAS-No.) 7664-38-2 (EC-No.) 231-633-2 (EC Index-No.) 015-011-00-6 (REACH-no) 01-2119485924-24	(10 =<C < 25) Eye Irrit. 2, H319 (10 =<C < 25) Skin Irrit. 2, H315 (25 =<C < 100) Skin Corr. 1B, H314	

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Boric acid (H3BO3)	(CAS-No.) 10043-35-3 (EC-No.) 233-139-2 (EC Index-No.) 005-007-00-2 (REACH-no) 01-2119486683-25	(5,5 =<C < 100) Repr. 1B, H360FD
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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Never give anything by mouth to an unconscious person; If person is conscious rinse mouth with water and then give plenty of water to drink. Do not induce vomiting unless instructed to do so by medical personnel. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2 Most important symptoms and effects, both acute and delayed

No data available for the mixture.

Possible symptoms that may occur:

Contact with eyes:

Cause eye irritation

Symptoms include pain and redness

Inhalation: no data available

May cause irritation to the respiratory tract

Symptoms: cough

Ingestion:

Swallowing may lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Symptoms: vomiting, abdominal pain, gastrointestinal disorders

Contact with skin:

May be irritatin to the skin

Symptoms: redness, itching, pain.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:

In case of incident seek medical advice showing the safety data sheet

SECTION 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

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5.2 Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke containing sulphur oxides

5.3 Advice for fire-fighters

Wear suitable personal protective equipment and self-contained breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

Protective clothing for firefighters (full protective suit, helmet, gloves, boots) must conform to the standard EN469

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

No action shall be taken involving any personal risk or without suitable training

Wear protective clothes giving a total skin protection, gloves and safety glasses.

Keep away from the affected area people not involved in the emergency intervention.

Ensure adequate ventilation.

Alert the internal emergency team.

For emergency responders:

Wear protective clothes giving a total skin protection, nitrile gloves and safety glasses.

See protective measures under point 7 and 8.

Remove people to safety.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it in landfill approved;

If possible, collect in clean plastic containers labeled and reuse as fertilizer.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, soil, sand.

6.3. Methods and material for containment and cleaning up

Wash with plenty of water, contain the spill with absorbent material

Collect the product for example using shovel and broom

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Keep in original containers tightly closed in a well-ventilated place far from heat source

Keep away from food, drink and feed.

Incompatible materials:

Bases, metals, reducing and oxidizing agents

Instructions as regards storage premises:

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Adequately ventilated premises.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values:

No data available for the mixture.

8.2. Appropriate engineering controls.

It is recommended that the workers wear appropriate gloves, protective glasses

8.3. Individual protection measures, such as personal protective equipment:

Please observe the usual precautionary measures for handling of chemicals.

The personal protective equipment must be compliant to the regulation UNI –EN in force

Eye protection:

Use close fitting safety goggles according to the standard EN 166, don't use eye lens

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., nitrile according to EN 374

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None Known

Environmental exposure controls:

None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour:

Liquid brown

Odour:

characteristic

Odour threshold:

N.A.

pH:

3.5

Melting point / freezing point:

N.A.

Initial boiling point and boiling range:> 100°C

Solid/gas flammability:

not applicable

Upper/lower flammability or explosive limits: not applicable

Vapour density:

N.A.

Flash point:

not applicable

Evaporation rate:

N.A.

Vapour pressure:

N.A.

Density:

1.2 Kg/dm³ at 20°C

Solubility in water:

N.A.

Lipid solubility:

N.A.

Partition coefficient (n-octanol/water):

N.A.

Auto-ignition temperature:

not applicable

Decomposition temperature:

N.A.

Viscosity:

N.A.

Explosive properties:

not applicable

Oxidizing properties:

not applicable

9.2 Other information

Miscibility:

N.A.

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Fat Solubility: N.A.
Substance Groups relevant properties N.A.

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity
Stable under normal conditions
- 10.2 Chemical stability
Stable under normal conditions
- 10.3 Possibility of hazardous reactions
None known
- 10.4 Conditions to avoid:
Avoid high temperatures
- 10.5 Incompatible materials:
Bases, metals, reducing and oxidizing agents
- 10.6 Hazardous decomposition products:
None.

SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);
No data available for the mixture
Possible symptoms that may occur:
Eye contact:
Causes serious eye irritation
Inhalation:
if inhaled, especially at high temperatures, the vapors may be very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact:
May be irritating to the skin
Ingestion: May cause burns to mouth, throat and stomach.
- 11.2 Symptoms related to the physical, chemical and toxicological characteristics:
Inhalation:
Symptoms: cough, shortness of breath
Ingestion:
Symptoms: vomiting, abdominal pain, gastrointestinal disorders.
Contact with skin:
Symptoms: redness, itching, pain.
Contact with eyes:
Symptoms include pain, redness, tearing
- 11.3 Delayed and immediate effects and also chronic effects from short- and long-term exposure;
See section 11.2
- 11.4 Numerical measures of toxicity (such as acute toxicity estimates).
Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Boric acid (H₃BO₃) (10043-35-3)

LD50 oral rat	> 2600 mg/kg OECD 401
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LD50 dermal rabbit	> 2000 mg/kg FIFRA (40CFR 163)
LC50 inhalation rat (mg/l)	> 2,03 mg/l OECD 403

Phosphoric acid (7664-38-2)

LD50 oral rat	2600 mg/kg (OECD 423)
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Polyphosphoric acids, ammonium salts (68333-79-9)

LD50 oral rat	300 - 2000 mg/kg (OECD 423)
LC50 inhalation rat (mg/l)	> 4,85 mg/l (OECD 436)

Skin corrosion/irritation	: Not classified pH: 3,5
Serious eye damage/irritation	: Causes serious eye irritation. pH: 3,5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified

Boric acid (H3BO3) (10043-35-3)

LOAEL (animal/male, F0/P)	58.5 mg/kg
NOAEL (animal/male, F0/P)	17.5 mg/kg

Phosphoric acid (7664-38-2)

NOAEL (animal/male, F1)	>= 500 mg/kg (OECD 422)
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Polyphosphoric acids, ammonium salts (68333-79-9)

NOAEL (animal/male, F0/P)	>= 1500 mg/kg bodyweight (rat, oral, 28 days, OECD 422)
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Boric acid (H3BO3) (10043-35-3)

LOAEL (oral, rat, 90 days)	58,5 mg/kg bodyweight/day
NOAEL (oral, rat, 90 days)	17,5 mg/kg bodyweight/day

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Aspiration hazard : Not classified

11.5 Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

None

SECTION 12: ECOLOGICAL INFORMATION

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

Boric acid (H3BO3) (10043-35-3)	
LC50 fish	79,7 mg/l
EC50 Daphnia	133 (115 - 153) mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms	175 mg/l
ErC50 (algae)	40 mg/l Pseudokirchneriella subcapitata
LOEC (chronic)	23 mg/l Fathead minnow, 32d
NOEC chronic fish	11,2 mg/l Fathead minnow, 32d
NOEC chronic crustacea	25,9 mg/l Hyalella azteca, 42d
NOEC chronic algae	>= 100 mg/l Agmenellum quadruplicatum, 10d

Phosphoric acid (7664-38-2)	
EC50 Daphnia	> 100 mg/l (Daphnia magna) (OECD 202, fresh water)
EC50 72h algae	> 100 mg/l (OECD 201, fresh water)

Polyphosphoric acids, ammonium salts (68333-79-9)	
LC50 other aquatic organisms	100 g/l activated sludge
ErC50 (algae)	97,1 mg/l
NOEC chronic algae	97,1 mg/l

12.2. Persistence and degradability

Boric acid (H3BO3) (10043-35-3)	
Persistence and degradability	Not readily biodegradable.

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Phosphoric acid (7664-38-2)	
Persistence and degradability	The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Boric acid (H3BO3) (10043-35-3)	
BCF fish	0
Log Pow	-1.09 @22°C

Phosphoric acid (7664-38-2)	
Bioaccumulative potential	not bioaccumulable.

Polyphosphoric acids, ammonium salts (68333-79-9)	
Bioaccumulative potential	Minimum.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Boric acid (H3BO3) (10043-35-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Phosphoric acid (7664-38-2)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Polyphosphoric acids, ammonium salts (68333-79-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Other adverse effects

: Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Rinse off of bigger amounts into drains or watercourses may cause a decreasing of the pH value.
A low pH-value harms aquatic organisms. Diluting the concentration used, the pH value increases considerably, so that after dilution of the product, the waste water into drains, are not very dangerous to the aquatic environment.

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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:

- Product :Recover if possible. In so doing, comply with the local and national regulations currently in force.
- Packaging: Dispose according to regulations.

SECTION 14: TRANSPORT INFORMATION

UN number

Not classified as dangerous in the meaning of transport regulations.

UN proper shipping name

N.A.

Transport hazard class(es)

N.A.

Packing group

N.A.

Environmental hazards

ADR-Enviromental Pollutant: No

IMDG-Marine pollutant: No

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

N.A.

Special precautions

N.A.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations specific for the product in question.

Hazard Communication Standard (HCS) Haz Com 2012

OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009.

Hazard Communication Standard

United Nations Recommendations on the Transport of Dangerous Goods.

OSHA Permissible Exposure Limit

[29 CFR 1926.55 Appendix A](#)

American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)

National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL)

Chemical Abstracts Service (CAS) Registry Number

SECTION 16: OTHER INFORMATION , INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of preparation of the SDS: revision 1.0, DATE: June 11, 2020.

This document was prepared by a competent person who has received appropriate training.

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

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N.A.	no data available
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.