
VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

SAFETY DATA SHEET

Master 13-40-13

SECTION 1: IDENTIFICATION

- 1.1. Product Identifier used on the label
Trade name: Master 13-40-13
- 1.2. Other means of identification
Code: 11356
- 1.3. Recommended use of the chemical and restrictions on use:
VALAGRO Spa
Via Cagliari, 1 Zona Industriale
66041 Atessa (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:
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):
The product is not classified as dangerous

Classification according to EC regulation criteria 1272/2008 (CLP):
The product is not classified as dangerous

2.2. Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200:
None

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

- 3.1. Substances
N.A.

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0


Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

3.2. Mixtures

Hazardous components within the meaning of OSHA Hazard Communication Standard (29 CFR 1910.1200) and CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 0.1% - < 0.25%	boric acid	Index number: 005-007-00-2 CAS: 10043-35-3 EC: 233-139-2	 3.7/1B Repr. 1B H360FD

SVHC Substances:

>= 0.1% - < 0.25% boric acid

Index number: 005-007-00-2, CAS: 10043-35-3, EC: 233-139-2

C>= 5.5% Repr. 1B, May damage fertility or the unborn child.

SECTION 4: FIRST AID MEASURES

4.1. Description of necessary 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:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

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/effects, acute and delayed:

No data available for the mixture

Possible symptoms that may occur:

Inhalation: may cause irritation to the respiratory tract

Symptoms: cough, shortness of breath

Ingestion:

The product dissolved in water or in presence of moisture, cause an acid reaction and if swallowed may cause irritation and burns of the mouth, throat and digestive tract.

Symptoms: vomiting, abdominal pain, gastrointestinal disorders

Contact with skin:

May cause irritation to the skin

Symptoms: redness, itching, pain.

Contact with eyes:

May cause eyes irritation

Symptoms include pain and redness

4.3. Indication of immediate medical attention and special treatment needed:

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No data available

SECTION 5. FIRE-FIGHTING MEASURES

5.1. Suitable (and unsuitable) extinguishing media.

Suitable extinguishing media:

Water.

Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces smoke containing nitrogen oxides, phosphorous oxides.

5.3. Special protective equipment and precautions for fire-fighters.

Use suitable breathing apparatus, protective clothing, eye protection and gloves resistant to chemicals according to EN469

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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

See protective measures under point 7 and 8.

Ensure adequate ventilation, move people in a safe place.

Avoid dust generation

6.2. Methods and material for containment and cleaning up

Collect the product for example using shovel and broom

Avoid raising dust

Wash with plenty of water and adsorb with organic material or sand collect the product absorbed for example using shovel and broom

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

Dilute with water and retain contaminated wash water and dispose in authorized facilities or pick up in clean plastic labeled containers and reuse as fertilizer.

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

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

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

Keep in the original package in a cool well-ventilated place, away from sources of heat

Keep away from food, drink and feed.

Incompatible materials:

Acids, Bases, oxidizing and reducing agents.

Instructions as regards storage premises:

Adequately ventilated premises.

Avoid dust generation.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure limit values:

No data available for the mixture.

Boric acid - CAS: 10043-35-3

ACGIH - TWA(8h): 2 mg/m³ - STEL: 6 mg/m³ - Notes: (I), A4 - URT irr

DNEL Exposure Limit Values

boric acid - CAS: 10043-35-3

Worker Professional: 8.3 val.03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 392 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.98 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 4.15 val.03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 196 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

boric acid - CAS: 10043-35-3

Target: Marine water - Value: 2.9 mg/l - Notes:: (Boron)

Target: Fresh Water - Value: 2.9 mg/l - Notes:: (Boron)

Target: Intermittent release - Value: 13.7 mg/l - Notes:: (Boron)

Target: Soil (agricultural) - Value: 5.7 mg/kg - Notes:: (Boron)

Target: 19250.val1 - Value: 10 mg/l - Notes:: (Boron)

8.2. Appropriate engineering controls.

It is recommended that the workers wear appropriate gloves, protective glasses and use a anti-powder mask

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. nitrile according to EN 374

Respiratory protection:

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

No need for normal use.

In case of dust generation, use anti-powder mask with P2 (FFP2) filters according to the EN 149:2001

The powder exposition limit must be respected.

Thermal Hazards:

None Known

Environmental exposure controls:

None

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Orange crystals
Odour:	Characteristic
Odour threshold:	N.A.
pH 1% water solution at 68°F:	4.7
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	not applicable, solid
Flash point:	N.A.
Evaporation rate:	not applicable, solid
Flammability (Solid/gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	not applicable, solid
Vapour density:	not applicable, solid
Apparent density:	1.1 Kg/dm ³
Solubility in water:	420 g/l at 68°F
Lipid solubility:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Stable under normal conditions of storage and use

10.2. Chemical stability

Stable under normal conditions of storage and use

10.3. Possibility of hazardous reactions

The product itself is not combustible but it can support the combustion of combustible materials even in the absence of air.

The product may intensify fire.

10.4. Conditions to avoid

At high temperatures, which induce thermal decomposition, the product may release hazardous gases.

10.5. Incompatible materials

Acids, Bases, oxidizing and reducing agents.

10.6. Hazardous decomposition products

In case of fire and high temperatures can develop nitrogen oxides, phosphorus oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

Inhalation:

may cause irritation to the respiratory tract; high concentrations of dust in the air may cause irritation of respiratory tract.

Ingestion:

The product dissolved in water or in presence of moisture, cause an acid reaction and if swallowed may cause irritation and burns of the mouth, throat and digestive tract.

Contact with skin:

May cause irritation to the skin

Contact with eyes:

May cause eyes irritation

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 and redness

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).

Toxicological information of the product:

Master 3-37-37

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

- Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

boric acid - CAS: 10043-35-3

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2600 mg/kg - Source: OECD 401 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met
Test: LC50 - Route: Inhalation - Species: Rat > 2.03 mg/l - Source: OECD 403 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Source: FIFRA (40 CFR 163) - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: 18202.val1 - Species: Rabbit - Source: OECD 405 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Oral - Species: Guinea pig - Source: OECD 406 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

e) germ cell mutagenicity:

Test: Mutagenesis - Source: Ames test OECD 471 - Notes: Test material: Boric acid - Based on calculation method, the classification criteria are not met

f) carcinogenicity:

Test: Carcinogenicity - Route: Oral - Species: Mouse - Source: OECD 451 - Notes: Test material: Boric acid - Based on available data, the classification criteria are not met

g) reproductive toxicity:

Test: Reproductive Toxicity - Route: Oral - Species: Rat = 58.5 mg/kg - Source: (Boron) - Notes: Test material: Borax deca hydrate; Classification as Reprto 1B H360FD

h) STOT-single exposure:

Based on available data, the classification criteria are not met

i) STOT-repeated exposure:

Based on available data, the classification criteria are not met

j) aspiration hazard:

Based on available data, the classification criteria are not met

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

12.1. Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

boric acid - CAS: 10043-35-3

a) Aquatic acute toxicity:

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

Endpoint: LC50 - Species: Fish = 79.9 mg/l - Duration h: 96 - Notes: (Boron)

Endpoint: LC50 - Species: Daphnia = 133 mg/l - Duration h: 48 - Notes: (Boron)

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish = 11.2 mg/l - Duration h: 768 - Notes: (Boron)

Endpoint: NOEC - Species: Daphnia = 25.9 mg/l - Duration h: 48 - Notes: (Boron)

c) Bacteria toxicity:

Endpoint: NOEC - Species: Microorganisms = 17.5 mg/l - Duration h: 3 - Notes: (Boron)

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 40 mg/l - Duration h: 72 - Notes: (Boron)

12.2. Persistence and degradability:

No data available for the mixture

12.3. Bioaccumulative potential

The product does not contain any bioaccumulative substances

12.4. Mobility in soil

No data available for the mixture;

12.5. Other adverse effects (such as hazardous to the ozone layer).

None known

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-Environmental Pollutant: No

IMDG-Marine pollutant: No

Most important toxic component: Master 3-37-37

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

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

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](#)

EC regulation 1272/2008 (CLP)

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

USA - Federal regulations

TSCA - Toxic Substances Control Act

List of substances not included in the TSCA inventory: boric acid.

TSCA listed substances:

None.

SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: no substances listed.

Section 313 – Toxic chemical list: no substances listed.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

No substances listed.

CAA - Clean Air Act

CAA listed substances:

None.

CWA - Clean Water Act

CWA listed substances:

None.

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

None.

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

No substances listed.

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

No substances listed.

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

No substances listed.

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

Date of preparation of the SDS: revision 1.0, date: June 12, 2018.

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

VALAGRO SDS according to HCS APPENDIX D TO §1910.1200

Date: June 12, 2018 Rev. 1.0

Product: Master 13-40-13

Code: 11356

Print Date: June 13, 2018

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.

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.