

VALAGRO Safety Sheet
Date: 26 September 2016 Rev. 1.0
Product: Master 20-20-20
Code: 11360
Print Date: 26 September 2016

SAFETY SHEET

Master 20-20-20

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: Master 20-20-20

Trade code: 11360

1.2. Relevant identified uses of the substance or mixture and uses advised against
Fertilizer

1.3. Details of the supplier of the safety data sheet

Produced and packed by:

VALAGRO Spa

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Distributed and guaranteed by:

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Competent person responsible for the safety data sheet:

regulatory@valagro.com

1.4. Emergency telephone number

Valagro USA Inc

Tel (281) 664 8700 - Fax (281) 664 8701

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200):

The product is not classified as dangerous

Classification according to Regulation (EC) No 1272/2008:

The product is not classified as dangerous

2.2. Label elements

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

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3.2. Mixtures

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

None

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

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

Inhalation:

Possible irritation of respiratory tract

Skin:

Possible irritation according to the contact time with the product

Eye:

Possible irritation according to the contact time with the product

Ingestion:

Possible irritation of mouth and digestive tract.

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

Treatment:

N.A.

SECTION 5: Firefighting 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.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces smoke containing nitrogen oxides, phosphorus oxides, sulphur oxides.

Can cause the ignition of combustible substances even in the absence of air.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Avoid dust generation

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

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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, PVC 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.

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 seepage into waterways, soil or sewage system inform authorities responsible.

Material suitable for collecting: inert absorbent material, sand

Avoid organic materials and combustible substances (such as sawdust)

6.3. Methods and material for containment and cleaning up

Wash with plenty of water. Contain leaks with inert absorbent material

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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

Avoid dust generation and Keep away from sources of ignition

Avoid contamination from any source of metals, dust and organic materials

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 humidity, heat and ignition sources. Avoid exposure to direct sunlight

Keep away from food, drink and feed and from combustible materials.

Incompatible materials:

Oxidizing and reducing agents, acids, bases, combustible materials

Instructions as regards storage premises:

Adequately ventilated, cool and dry premises.

7.3. Specific end use(s)

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available.

General exposure limit for dust:

ACGIH : recommended value inhalable dust: TLV/TWA: 10 mg/m³

ACGIH : recommended value breathable dust: TLV/TWA: 3 mg/m³

DNEL Exposure Limit Values

N.A.

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PNEC Exposure Limit Values

N.A.

8.2. Exposure controls

Please observe the usual precautionary measures for handling of chemicals.

Eye protection:

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

Protection for skin:

Wear protective clothing according to the standard EN 14605.

Protection for hands:

gloves in PVC (polyvinyl chloride) according to the EN 374.

Respiratory protection:

Not needed for normal use. Use anti-powder mask with filters in case of dust generation.

Thermal Hazards:

None Known

Environmental exposure controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	blue crystals
Odour:	N.A.
Odour threshold:	N.A.
pH 1% (water):	5.1 at 20°C
Melting point / freezing point:	N.A.
Initial boiling point and boiling range:	N.A.
Solid/gas flammability:	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Apparent density:	0.7-0.8 Kg/dm ³
Solubility in water:	550 g/l at 20°C
Solubility in oil:	N.A.
Partition coefficient (n-octanol/water):	N.A.
Auto-ignition temperature:	N.A.
Decomposition temperature:	N.A.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity(1‰):	N.A.
Substance Groups relevant properties	N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use and storage

10.2. Chemical stability

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Stable under normal conditions of use and storage

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Stable under normal conditions.

Avoid high temperatures that induce thermal decomposition

Avoid dust generation. Dusts at sufficient concentrations can form explosive mixtures with air

Avoid any accumulation of electrostatic charge

The product can cause the ignition of combustible substances even in the absence of air.

10.5. Incompatible materials

Oxidizing and reducing agents, acids, bases, combustible materials

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

In case of ingestion of large amounts, NO₃-ions contained in the product can oxidize the iron atoms in hemoglobin making it unable to carry oxygen effectively to the tissues (methemoglobinemia)

Toxicological information of the main substances found in the mixture:

N.A.

Possible symptoms that may occur

Information on different types of exposure:

- Inhalation: Dust may irritate the respiratory tract. Possible symptoms: shortness of breath, sore throat.
- Eye contact and skin: Prolonged contact may cause irritation and itching, direct contact with eyes may cause irritation
- Ingestion of large amounts may cause nausea, vomiting, diarrhea

The phosphate present in the product can bind calcium to calcium phosphate and can cause calcium deposits in the kidneys

Persons with renal failure, can be more susceptible to the effects of this substance

SECTION 12: Ecological information

12.1. Toxicity

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

The product contains nitrates and phosphates; Environmental releases can cause serious adverse effects on the environment, as nitrate pollution of surface water layers and internal eutrophication in surface waters

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

The product is soluble and mobile in both terrestrial and aquatic compartments

12.5. Results of PBT and vPvB assessment

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vPvB Substances: None - PBT Substances: None
12.6. Other adverse effects
None Known

SECTION 13: Disposal considerations

- 13.1. Waste treatment methods
- Product: Recover if possible. In so doing, comply with the local and national regulations currently in force.
Contact local authorities who will provide guidance regarding the disposal of special waste.
 - Packaging: Dispose according to current regulations

SECTION 14: Transport information

- 14.1. UN number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
- | | |
|------------------------------|----|
| ADR-Environmental Pollutant: | No |
| IMDG-Marine pollutant: | No |
- 14.6. Special precautions for user
N.A.
- 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
N.A.

SECTION 15: Regulatory information

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

This document is outside the scope of Article 31 of REACH
This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
CCNL - Appendix 1

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Insert further consulted bibliography

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 MSDS 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.