
VALAGRO Safety Sheet
Date: May 30, 2018 Rev. 1.0
Product: SWEET
Code: 10935
Print Date: May 30, 2018

SAFETY SHEET

SWEET

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

1.1. Product identifier

Mixture identification:

Trade name: SWEET

Trade code: 10935

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

Recommended use:

Fertilizer

1.3. Details of the supplier of the safety data sheet

Produced and packed by:

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Competent person responsible for the safety data sheet:

regulatory@valagro.com

1.4. Emergency telephone number:

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200;

None

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

15% - 20% Calcium Chloride

CAS: 10043-52-4, EC: 233-140-8; Reach Registration number: 01-2119494219-28-xxxx

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

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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:

Do not under any circumstances induce vomiting. **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

There are no known health effects of the mixture as a whole.

In base on the components present:

Ingestion: Gastrointestinal symptoms such as nausea, vomiting and diarrhea

Contact with the skin: not irritant in normal use of the product through the skin but irritation can occur

Eyes: may cause eye irritation.

Inhalation: unlikely route of exposure

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

Treatment: See paragraph 4.1

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 calcium oxide, nitrogen oxides, hydrochloric acid gas.

5.3. Advice for firefighters

Use suitable 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.

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, gloves and safety glasses.

See protective measures under point 7 and 8.

Remove people to safety.

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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

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.
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 away from food, drink and feed.

Incompatible materials:

Acids, bases.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Fertilizer

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

- Calcium Chloride EC: 233-140-8

N.A.

8.2. Exposure controls

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 according to EN 14605.

Protection for hands:

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

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None Known

Environmental exposure controls:

Prevent the contamination of soil, surface water or groundwater

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour: liquid purple

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Odour:	N.A.
Odour threshold:	N.A.
pH:	3.4
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.
Density:	1,3 – 1.4 Kg/dm ³ at 20°C
Solubility in water:	Soluble
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:	N.A.
Substance Groups relevant properties	N.A.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of handling and storage.

10.2. Chemical stability

Stable under normal conditions of handling and storage.

10.3. Possibility of hazardous reactions

None Known

10.4. Conditions to avoid

Avoid heating the product

10.5. Incompatible materials

Strong acids.

10.6. Hazardous decomposition products

In case of fire and high temperatures can develop calcium oxide, nitrogen oxides, hydrochloric acid gas.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

Acute ocular irritation test: not irritant (OECD 405)

Toxicological information of the main substances found in the mixture:

a) acute toxicity:

- Calcium Chloride - EC: 233-140-8

Test: LD50 - Route: Oral - Species: Rat = 2301 mg/l

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/l

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Test: LD50 - Route: Inhalation - Species: Mouse = 1940 mg/kg

Test: LD50 - Route: Oral - Species: Rat = 1000 mg/kg

Test: LD50 - Route: Skin - Species: Rat = 2630 mg/kg

b) skin corrosion/irritation:

- Calcium Chloride - EC: 233-140-84

N.A.

c) serious eye damage/irritation:

Test OECD405: not irritant

d) respiratory or skin sensitisation:

- Calcium Chloride - EC: 233-140-8

N.A.

e) germ cell mutagenicity:

- Calcium Chloride - EC: 233-140-84

N.A.

f) carcinogenicity:

- Calcium Chloride - EC: 233-140-8

N.A.

g) reproductive toxicity:

- Calcium Chloride - EC: 233-140-84

N.A.

h) STOT-single exposure:

- Calcium Chloride - EC: 233-140-8

N.A.

i) STOT-repeated exposure:

- Calcium Chloride - EC: 233-140-8

N.A.

j) aspiration hazard:

- Calcium Chloride - EC: 233-140-8

N.A.

Symptoms related to the physical, chemical and toxicological properties:

There are no known health effects of the mixture as a whole.

In base on the components present:

Inhalation: unlikely route of exposure

Ingestion: Gastrointestinal symptoms such as nausea, vomiting and diarrhea

Contact with the skin: not irritant in normal use of the product through the skin but irritation can occur

Eyes: May cause serious eye irritation

SECTION 12: Ecological information

12.1. Toxicity

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

a) Aquatic acute toxicity:

- Calcium Chloride - EC: 233-140-8

Endpoint: EC50 - Species: Daphnia = 2400 mg/l - Duration h: 48

Endpoint: EC50 - Species: Fish = 2900 mg/l - Duration h: 72

Endpoint: LC50 - Species: Fish = 4630 mg/l - Duration h: 96

Endpoint: NOEC - Species: Daphnia = 320 mg/l - Duration h: 504

Endpoint: LC50 - Species: Daphnia = 3005 mg/l - Duration h: 48

12.2. Persistence and degradability

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- Not applicable for inorganic substances
- 12.3. Bioaccumulative potential
The product doesn't contain any bioaccumulative substance
- 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
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 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 MARPOL73/78 and the IBC Code
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

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SECTION 16: Other information

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

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.

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.

N.A.: No data available