
VALAGRO SDS according to Regulation (EU) N. 2015/830

Date: 27 July 2016 Rev. 1.0

Product: DALT Mix 6

Code: 11500

Print Date: 27 July 2016

SAFETY DATA SHEET

DALT MIX 6

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

1.1. Product identifier

Mixture identification:

Trade name: DALT MIX 6

Trade code: 11500

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

Company:

VALAGRO Spa

Via Cagliari, 1 Zona Industriale

66041 Atessa (CH) ITALY

Tel. (+39) 08728811 Fax (+39) 0872881382

www.valagro.com

Competent person responsible for the safety data sheet:

regulatory@valagro.com

1.4. Emergency telephone number

VALAGRO SPA - Telephone (+39) 0872 8811; Telefax number. (+39) 0872 881382 (Monday to Friday from 8:30 to 13:00 and 14:00 to 17.30 (GMT+1))

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

The mixture is not classified as dangerous according to EC Regulation 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Symbols:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

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SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 5% - < 7%	Copper EDTA	CAS: 14025-15-1 EC: 237-864-5 REACH No: 01-2119963944-23-xxxx	 3.1/4/Oral Acute Tox. 4 H302  3.3/2 Eye Irrit. 2 H319
>= 1% - < 3%	Sodium molybdate	CAS: 10102-40-6 EC: 231-551-7 REACH No.: 01-2119489495-21-XXXX	substance with a Community workplace exposure limit

For full text of H-statements: see SECTION 16

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing immediately and dispose off safely.

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).

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. Do not induce vomiting unless directed 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

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

Treatment:

No specific treatment.

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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

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.

Avoid dust generation

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

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

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Keep away from food, drink and feed.

Incompatible materials:

Bases, acids, oxidizing and reducing agents

Instructions as regards storage premises:

Adequately ventilated premises

Avoid dust generation

Dusts at sufficient concentrations can form explosive mixtures with air

7.3. Specific end use(s)

N.A.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters:

- Copper EDTA - CAS: 14025-15-1

DNEL:

Workers:

Inhalation exposure to long-term systemic effects

DNEL: 1.8 mg/m³

Skin systemic effects long-term exposure

DNEL 3750 mg / kg body weight/day

General Population:

Inhalation exposure to long-term systemic effects

DNEL: 0.45 mg/m³

Skin systemic effects long-term exposure

DNEL: 1875 mg/kg body weight /day

oral systemic effects long-term exposure

DNEL: 0.375 mg / kg body weight /day

PNEC:

PNEC (freshwater) = 2.95 mg/L

PNEC aqua (sea water) = 0.3 mg/L

PNEC aqua (intermittent release) = 1.09 mg/L

PNEC STP = 65.4 mg/L

PNEC soil - Risk to terrestrial organisms = 0.21 mg/kg dw soil

- Sodium molybdate CAS: 10102-40-6

Exposure limit Molybdenum (Mo) TWA 0.5 mg/m³ soluble compounds

Critical effect: respiratory tract irritation

Long-term systemic effects (Inhalation) : DNEL = 11,17 mg Mo/m³

(28 mg Na₂MoO₄.2H₂O / m³)

Long-term chronic effects (Fresh water) : PNEC = 12,7 mg Mo/L (32,0 mg

Na₂MoO₄.2H₂O/L)

Long-term chronic effects (Sea water) : PNEC = 1,9 mg Mo/L (4,8 mg Na₂MoO₄.

2H₂O/L)

Long-term chronic effects (Fresh water - Sediments) : PNEC = 22,6 g Mo/kg dw (

57,0 g Na₂MoO₄.2H₂O/kg dw)

Long-term chronic effects (Sea water - Sediments) : PNEC = 1,98 g Mo/kg dw (4, 99 g

Na₂MoO₄.2H₂O/kg dw)

Long-term chronic effects (Soil) : PNEC = 11,8-188 mg Mo/kg dw (29,8-474 mg

Long-term chronic effects (Sewage treatment plant (STP)) : PNEC = 21,7 mg

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Mo/L (54,7 mg Na₂MoO₄·2H₂O/L)

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 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: microgranules green

Odour: characteristic

Odour threshold: N.A.

pH 1%: 6.1 at 20°C

Melting point / freezing point: N.A.

Initial boiling point and boiling range: not applicable, solid

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: not applicable, solid

Flash point: not applicable, solid

Evaporation rate: not applicable, solid

Vapour pressure: not applicable, solid

Density: N.A.

Apparent density: 0.95 Kg/dm³ at 20°C

Solubility in water: 100 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: not applicable, solid.

Explosive properties: not applicable, the product doesn't contain any substance with explosive properties

Oxidizing properties: not applicable, the product doesn't contain any substance with oxidizing properties

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

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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

Bases, acids, oxidizing and reducing agents

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological information of the mixture:

N.A.

Toxicological information of the main substances found in the mixture:

a) acute toxicity:

- Copper EDTA - CAS: 14025-15-1

LD50 (Oral) = 890 mg / kg (test similar to OECD 403)

LD50 (dermal, rat) > 2000 mg / kg bw (OECD 402 read-across from
Ethylenediaminetetraacetic acid ferric sodium salt)

4h-LC50 (inhalation) > 5.32 g / m³ (OECD 436)

- Sodium molybdate CAS: 10102-40-6

LD50 Dermal (rat) > 2000 mg / kg body weight

LC50 Inhalation (rat male/female): 1.93 mg/l/4h

b) skin corrosion/irritation:

- Copper EDTA - CAS: 14025-15-1

slightly irritating (test on rabbit: 50% aqueous solution, OECD 404)

- Sodium molybdate CAS: 10102-40-6

Not irritant. Not corrosive

c) serious eye damage/irritation:

- Copper EDTA - CAS: 14025-15-1

irritating (Test on rabbit, OECD 405)

- Sodium molybdate CAS: 10102-40-6

Not irritant. Not corrosive

d) respiratory or skin sensitisation:

- Copper EDTA - CAS: 14025-15-1

not sensitizing (test on rat, OECD 429 Local Lymph Node Assay)

- Sodium molybdate CAS: 10102-40-6

Skin: Not sensitizing.

Respiratory system: N.A.

e) germ cell mutagenicity:

- Copper EDTA - CAS: 14025-15-1

not classified as mutagenic

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- Sodium molybdate CAS: 10102-40-6
not classified as mutagenic

f) carcinogenicity:

- Copper EDTA - CAS: 14025-15-1
non-carcinogenic (read-across from hydrogen 2,2', 2'', 2''' - (ethane-1,2-diylidinitrilo) tetraacetate)

- Sodium molybdate CAS: 10102-40-6
not classified as carcinogenic

g) reproductive toxicity:

- Copper EDTA - CAS: 14025-15-1
NOEL reproduction and development \geq 500 mg/kg bw/day.

- Sodium molybdate CAS: 10102-40-6
the classification criteria are not met

h) STOT-single exposure:

- Copper EDTA - CAS: 14025-15-1
the classification criteria are not met

- Sodium molybdate CAS: 10102-40-6
the classification criteria are not met

i) STOT-repeated exposure:

- Copper EDTA - CAS: 14025-15-1
the classification criteria are not met

- Sodium molybdate CAS: 10102-40-6
the classification criteria are not met

j) aspiration hazard:

- Copper EDTA - CAS: 14025-15-1
unlikely event (solid)

- Sodium molybdate CAS: 10102-40-6
Not applicable. Not an : Aerosol / Mist .

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:

- Copper EDTA - CAS: 14025-15-1

Aquatic acute toxicity:

Species: Fish = 555 mg/l - Notes: OECD 203

Species: Daphnia = 109.2 mg/l - Notes: OECD 202

Species: Algae = 662.6 mg/l - Notes: OECD 201

Aquatic chronic toxicity:

Species: Fish = 37.2 mg/l - Notes: OECD 210

Species: Daphnia = 29.5 mg/l - Notes: OECD 211

Species: Algae = 43.7 mg/l - Notes: OECD 201

Bacteria toxicity:

Endpoint: NOEC = 654 mg/l - Duration h: 3 - Notes: OECD 209

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- Sodium molybdate CAS: 10102-40-6

The lowest acute reference values for fish, invertebrates and algae are > 100 mg Mo/l

The lowest aquatic NOEC for these three trophic levels is > 1 mg Mo/l (i.e., 43.2 mg Mo/l for the rainbow trout)

12.2. Persistence and degradability

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 MARPOL and the IBC Code

N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

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Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

None

Where applicable, refer to the following regulatory provisions :

Directive 82/501/EEC ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

15.2. Chemical safety assessment

No

SECTION 16: Other information

Text of phrases referred to under heading 3:

H302 Harmful if swallowed

H319 Causes serious eye irritation.

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.

Sections revised from previous version: all the sections

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"

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	(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