



SAFETY DATA SHEET (SDS)

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification: CARBOTECNIA Mo

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

Relevant identified uses: As fertilizer in Agriculture.

Uses advised against: None.

1.3. Details of the Supplier of the Safety Data Sheet:

Manufacturer / Supplier: CARBOTECNIA S.L.

Address: C\Princesa, 25, 1º, 5

Country ID / Postcode / City: Spain / 28008 / Madrid

Telephone: (+34) 911 403 302

E-mail (competent person): carbotecnia@carbotecnia.com

1.4. Emergency telephone number:

Please contact: (+34) 91 562 04 20 (Spanish National Institute of Toxicology) (365 days / 24 hours).

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture.

2.1.1. Classification according to Regulation (CE) nº 1272/2008 [CLP]:

None

2.1.2. Additional information:

Complete Hazard statements can be seen in SECTION 16.

2.2. Label elements.

Signal Word: None

Hazard statements: None

Precautionary statements: P102, P270 (All Texts in SECTION 16).

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture Description: Molybdenum salts mixture.

Molybdenum (Mo) water soluble:

3% w/w





SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures.

General Information: Non-hazardous product.

Following inhalation: In the event of inhalation, remove to fresh air to the person and if symptoms persist, consult a doctor.

Following skin contact: Wash with plenty of water during at least 15 minutes. Prolonged contact with skin may cause redness or dermatitis.

Following eye contact: In case of wearing contact lens, take them off as fast as possible. Wash immediately with plenty of water for at least 15 minutes and get medical attention.

Following ingestion: Drink a lot of water. Do not induce vomiting. See a medical doctor.

Self-protection of the first aider: Protective goggles.

4.2. Most important symptoms and effects.

Symptoms: Go to SECTION 11.

Effects: It can cause skin and eye irritation.

SECTION 5. FIREFIGHTING MEASURES

5.1. Extinguishing media.

Suitable extinguishing media: Foam, dry powder, carbon dioxide and water spray.

Unsuitable extinguishing media: Unknown, although water could be the less appropriated as it is a water-based product, especially when it is used at high volumes and pressure.

5.2. Special hazards arising from the substance or mixture.

Hazard combustion products: It can produce toxic fumes (CO_x) in case of fire.

5.3. Advice for fire fighters.

Special protective equipment for fire fighters: Wear a self-contained breathing apparatus and chemical protective clothing.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures.

6.1.1. For non-emergency personnel.

Protective equipment: Use chemical gloves, protective goggles and suitable clothes.

Emergency procedures: Taking into account the nature of the product, they are unnecessary, although it is recommended to keep the zone well ventilated.





6.1.2. For emergency responders.

Additional measures to the ones stated in SECTION 6.1.1 are unnecessary.

6.2. Environmental precautions.

Although it is not necessary to take special measures in case of accidental release, do not allow entering into surface water, soil/subsoil or drains.

6.3. Methods and material for containment and cleaning up.

6.3.1. For containment: Whatever adequate absorbent material can be used for this purpose (soil, sand or any absorbent material for non-combustible chemicals).

6.3.2. For cleaning up: Use adequate absorbent materials for this purpose (soil, sand or any absorbent material for non-combustible chemicals), and throw them into a suitable container. Afterwards, wash up the zone with plenty of water.

6.3.3. Other information: It is recommended to clean up the spill as soon as possible in order to avoid that it gets laid out.

6.4. Reference to other sections: SECTIONS 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling.

Protective measures:

- For personal protection, see SECTION 8. Use personal protective equipment.
- Liquid transfer operation must be done in fixed installations, well-ventilated places, and using drainage control systems.
- Follow local security and hygiene regulations.

Measures to prevent fire:

- This product is not flammable. No special fire protection measures are necessary.

Measures to prevent aerosol and dust generation:

- Aerosol or dust generation is not awaited.

Measures to protect the environment:

- Avoid spills, keeping the product far from drains.

Advice on general occupational hygiene:

- In handling areas, smoking, eating and drinking is completely forbidden.
- Wash hands before breaks and at the end of the working day.



7.2. Conditions for safe storage.

Technical measures and storage conditions:

- Store in a close, safe, fresh and dry place, and keep out of reach of children, animal and non-authorised personnel.
- Storage areas must be protected, ventilated and with drainage control.
- Do not store close to strong acid or alkaline products.
- Keep the temperature between 5º and 40º degrees.

Vessels:

- Keep / use the original container, and properly closed. Check periodically that there is not any damage in them.

Further information on storage conditions:

- Containers must be stored vertically, limiting their pilling up. Do not place over solid products.
- Keep the product properly identified.

7.3. Specific en use:

- This product has been designed to be used in agriculture.
- It is recommended to follow instructions given in labels or technical data sheet.
- See SECTION 7.1.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters: Exposure limit values are unknown for this product.

8.2 Exposure controls.

8.2.1. Appropriate engineering controls.

- See SECTION 7.
- Ensure good air circulation in workplace.

8.2.2. Personal protective equipment.

8.2.2.1. Eye and face protection: Protective goggles.

8.2.2.2. Skin protection.

Hand protection: Chemical-resistant gloves, impermeable to liquids.

Other skin protection: Suitable clothes to work with chemical liquid products. It is not recommended to wear one-piece clothes.

8.2.2.3. Respiratory protection: Self-autonomous respiratory system is not required.

8.2.2.4. Thermal hazards: No specific measures.





8.2.3. Environmental exposure controls.

See SECTION 6.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information

Appearance: Green-Yellow liquid.

Odour: Characteristic.

Odour threshold: Does not apply.

pH: 5,5-6,5

Melting / freezing point: Around 0° C as it is a water-based product.

Boiling point: Around 100° C as it is a water-based product.

Flash point: The product is not flammable.

Evaporation rate: No data available.

Flammability: Does not apply.

Upper/lower flammability or explosive limits: Product is not flammable or explosive.

Vapour pressure: No data available.

Vapour density: No data available.

Relative density: 1,0-1,1 g/cc (20° C)

Solubility: Totally water-soluble.

Partition coefficient n-octanol/water: No data available.

Auto-ignition temperature: Does not apply.

Decomposition temperature: No data available.

Viscosity: No data available.

Explosive properties: Does not apply, product is not explosive.

Oxidising properties: Does not apply, product is not oxidising.

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity: Stable product under recommended conditions of use and storage. See SECTION 7.

10.2. Chemical stability: The substance is chemically stable under recommended conditions of storage, use and temperature. See SECTION 7.

10.3. Possibility of hazardous reactions: No hazardous reaction when handled and stored according to provisions (See SECTION 7). It can give exothermic acid-base reactions when being mixed with strong acid or alkaline products.





10.4. Conditions to avoid: Extreme temperatures, direct sunlight and strong acid or alkaline products.

10.5. Incompatible materials: Strong acid or alkaline products.

10.6. Hazardous decomposition products: Does not decompose when used for intended uses. In case of fire, it can give toxic fumes (CO_x).

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects.

11.1.1. Acute toxicity: Based on available data, the classification criteria are not met.

11.1.2. Skin corrosion / irritation: Based on available data, the classification criteria are not met.

11.1.3. Serious eye damage / irritation: Based on available data, the classification criteria are not met.

11.1.4. Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

11.1.5. Germ cell mutagenicity: Based on available data, the classification criteria are not met.

11.1.6. Carcinogenicity: Based on available data, the classification criteria are not met.

11.1.7. Reproductive toxicity: Based on available data, the classification criteria are not met.

11.1.8. Summary of the evaluation of CMR properties: Based on available data, the classification criteria are not met.

11.1.9. Specific target organ toxicity (STOT) – single exposure: Based on available data, the classification criteria are not met.

11.1.10. Specific target organ toxicity (STOT) – repeated exposure: Based on available data, the classification criteria are not met.

11.1.11. Aspiration hazard: Based on available data, the classification criteria are not met.



SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity.

Organism	Acute toxicity (short-term)	Chronic toxicity (long-term)
Fish	No data available	No data available
Crustacea	No data available	No data available
Algae / Aquatic plants	No data available	No data available
Other organisms	No data available	No data available

12.2. Persistence and degradability.

Product is completely biodegradable.

12.3. Bioaccumulative potential.

Molybdenum Sources: Bioaccumulation is not expected. Molybdenum concentration in the final solution is low, as the dose is only recommended to overcome Molybdenum lacks (it is recommended to follow the doses indicated in labels and to consult technical personnel).

12.4. Mobility in soil.

Regarding the characteristics of this product, only when uncontrolled spills took place, there would be a large-scale contamination. Following the normal dose, its effect over the soil is minimum.

12.5. Results of PBT and vPvB assessment.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Other adverse effects.

None.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods.

The method of "final disposal" must be in accordance with the requirements of the current official standard. Not be disposed together with household waste, or allow the product to arrive in masse to drains or nearby waterways. Wastes and empty containers should be handled and disposed in accordance with applicable local and/or national laws.

SECTION 14. TRANSPORT INFORMATION

14.1. UN Number: Does not apply.

14.2. UN proper shipping name: Does not apply.

14.3. Transport hazard class: Does not apply.





14.4. Packing group: Does not apply.

14.5. Environmental hazards: Does not apply.

14.6. Special precautions for user: Does not apply anyone else apart from the ones specified in SECTION 7.

SECTION 15. REGULATORY INFORMATION

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

When making this SDS, EC Regulation 1907/2006 (REACH) and all the modifications published, especially EU Regulation 453/2010, EC Regulation 1272/2008 (CLP), EC Regulation 830/2015 and EC Regulation 2003/2003, have been fulfilled.

15.2. Chemical Safety Assessment.

None Chemical Safety Assessment has been carried out to this mixture.

SECTION 16. OTHER INFORMATIONS

16.1. Indication of changes.

The present version of this SDS has been made in order to reflect the evaluation of hazards made to this product following EC Regulations 1272/2008 (CLP) and 830/2015.

16.2. Abbreviations and acronyms.

SDS: Security data sheet.

% w/w: % weight / weight.

° C: grades centigrades.

g/cc: grams / cubic centimeter.

mg/kg: miligrams / kilogram.

mg/L: miligrams / litre.

CO_x: Carbon Oxides.

Corr.: Corrosive.

ATE_{Mix}: Acute toxicity estimation of the mixture.

CMR: Carcinogenic, mutagenic and reprotoxic.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

UN: United Nations.





16.3. Bibliographic References and Data Sources.

ESIS: European chemical Substances Information System.

IHCP: Institute for Health and Consumer Protection.

ECHA: European Chemicals Agency.

16.4. Classification and procedure used to determine the classification of the mixture according to EC Regulation nº 1272/2008 [CLP]:

This product does not classify in any hazardous category.

16.5. Complete P statements.

P102. Keep out of reach of children.

P270. Do not eat, drink or smoke when using this product.

16.6. Additional information.

Information gathered in this Security Data Sheet is based on the current knowledge about this product.

All the efforts have been made in order to ensure that the information of this sheet is reliable, but we cannot accept any responsibility about losses or damages cause by its use. The information in this sheet is just for reference, for our customers' safe product handling, they are not part of any specification.

In any case, this safety data sheet does not absolve users to know and apply all the legal texts that regulate their activity. Besides, they will responsible at their sole risk, of the precautions arising from the use of the product.

All the statutory provisions referred to are simply intended to assist the recipient to comply with its obligations regarding the use of dangerous products. This risk enumeration must not be considered as an exhaustive list and does not exonerate the recipient of it to make sure that he/she is not eventually affected by other obligations due to new texts (different texts of the previously cited) for the detection and handling of product, for which is solely responsible.

REG 110402

Revision SDS: 2

Date of revision: 16/11/2017

