

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

1.1. Product identifier

Trade Name: CALDA BORDALESA VALLÉS

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

Identified uses: Fungicide

Uses advised against: Do not use for other purposes other than those described in the product.

1.3. Details of the supplier of the safety data sheet

Supplier: **INDUSTRIAS QUIMICAS DEL VALLÉS, S.A.**

Address: Av. Rafael Casanova, 81
08100 – Mollet del Vallés (Barcelona) - Spain

Telephone number: (34) 935.796.677

Fax: (34) 935.791.722

E-mail address for a competent person responsible for the safety data sheet: fsegur@iqvagro.com

1.4. Emergency telephone number

Availability: “ Centro de Informação Antivenenos”: 808 250 143

Other comments: 24h

No information available.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP Classification table

Classification according to Regulation (EC) 1272/2008

Hazard Classes/ categories		Hazard statement(s)	M-Factors
Aquatic Acute Toxicity	Cat.1	H400: Very toxic to aquatic life.	N/A.
Aquatic Chronic Toxicity	Cat.2	H411: Toxic to aquatic life with long lasting effects.	

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008



WARNING

Hazard statement(s)

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P102 Keep out of reach of children.

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

P391 Collect spillage.

P501 Dispose of contents/container to an authorised hazardous waste collection site in accordance with national regulation.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Authorisation REACH number(s) : Not applicable

2.3. Other hazards

Compliance with PBT/vPvB criteria : There are no risks in accordance with Regulation 1999/45 of the EC or not classified as PBT or vPvB

Other hazards which do not result in classification : The substance/mixture is not classified as SVHC.

2.4. Phrases for special risks. : SP1: Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	Content (%)	EC number	CAS Number	Classification Regulation (EC) 1272/2008	Hazard statement(s)*
BORDEAUX MIXTURE TECHNICAL	81.6 (for a technical a.i. having 24,5% Copper content)	-	8011-63-0	Acute Tox. Inhalation Cat.4 Eye Damage Cat.1 Aquatic Tox. Acute Cat.1 Aquatic Tox. Chronic Cat.1	H332 H318 H400 H410

(*) See the full text of the hazard statements in section 16.

Composition (%) : Bordeaux Mixture (20% exp. as Cu w/w)

SECTION 4: First aid measures

4.1. Description of first aid measures

General notes:

If symptoms persists, call a physician.

In case of inhalation:

If symptoms are experienced remove source of contamination or move victim to fresh air. Obtain medical advice.

In case of contact with skin:

In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

In case of contact with eyes:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Do not forget to take off contact lenses Get medical attention immediately.

En case of ingestion:

Antidote: EDTA, BAL or penicillamine. Seek medical attention immediately and show this tab or the label. Check breathing. If necessary artificial respiration. Keep the patient at rest. Maintain body temperature. Never give anything by mouth to an unconscious person. If swallowed, do not induce vomiting. If the person is unconscious lay her on her side with the head lower than the rest of the body and semiflexed knees.

Recommendations for first aid responders:

Use suitable protective clothing.

4.2. Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed:

Burning pain in the mouth and pharynx, nausea, watery and bloody stools, diarrhea, decrease in blood pressure.
Headache and weakness may occur, proceeding to fainting or unconsciousness

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

Indication of any immediate medical attention and special treatment needed:

Not determinated

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use dry chemical, CO₂, water spray (fog) or foam.
Collect contaminated fire-fighting water separately. It must not enter the sewage system.

Unsuitable extinguishing media:

Water jet from high flow (due to risk of contamination).

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Not known.

Other specific hazards:

Not known.

5.3. Advice for firefighters

Advice for firefighters:

Wear suitable protective clothing and dust mask with filter for chemicals.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:	Do not breath the powder Avoid contact with mouth, eyes and skin Keep unauthorised people, children and animals away from the spillage area Wear suitable protective clothing and gloves to prevent contamination
For emergency responders:	Not available

6.2. Environmental precautions

Environmental precautions:	Keep out of waterways.
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6.3. Methods and material for containment and cleaning up

Containment:	Construction of barriers of protection, drains and coating methods.
Cleaning:	Cover the product with sawdust, sand or dry land, sweep it, insert it into a dry container, cover it, identify it and dispose in an authorized place. Do not clean the area contaminated with water.
Other information:	Do not use brushes or compressed air to clean surfaces or clothing

6.4. Reference to other sections

Reference to other sections:	No information available.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Containment and measures to prevent fire:	The job and the methodology should be organized in such a way that direct contact with the product is minimized or prevented. Handle with care. Workspaces Use with adequate ventilation and safety showers presence next.
Measures to prevent aerosol and dust generation:	Avoid spills and leaks
Measures to reduce the release of the substance or mixture to the environment:	No information available.
Advice on general occupational hygiene:	No information available.

7.2. Conditions for safe storage, including possible incompatibilities

Technical measures and storage conditions:	Store the product in its original container, closed and tagged, in cool, dry, ventilated and away from food, beverages and feed. Keep out of reach of children, animals and unauthorized personnel
Packaging materials:	-
Requirements for storage rooms and vessels:	Storage Keep container closed after use. Avoid high temperatures and frost.
Further information on storage conditions:	No data available

7.3. Specific end use(s)

Recommendations:	The product is for plant protection use.
Industrial sector specific solutions:	-

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No DNEL data.	
Information on monitoring procedures:	Not available
Currently recommended monitoring methods:	Not available
Specific monitoring standards:	No information available.
There are not data of PNEC	
Control banding approach ("control banding"):	Good industrial hygiene practices

8.2. Exposure controls

Appropriate engineering controls:	-
Appropriate exposure control measures related to the identified use(s) of the substance or mixture:	-
Structural measures to prevent exposure:	No information available.
Organisational measures to prevent exposure:	No information available.



SAFETY DATA SHEET

According to Regulation (EC) No 453/2010 amending Annex II of Regulation (EC)
No 1907/2006 (REACH)

3339_BM20WP_PT CALDA BORDALESA VALLÉS

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Version: 3.0

Replaces version: 2.0 (02-03-2015)
Page: 4 / 8

BORDEAUX MIXTURE 20% WP

Technical measures to prevent exposure: No information available.

Individual protection measures, such as personal protective equipment

Eye/Face protection: Avoid contact. Safety glasses with side-shields.

Hand Protection: Wear gloves. (Dexter CE 95 0072 4121 according to EEC/89/686). After use, wash with soap and water.

Others: Mittens, boots or coverall depending on the hazards associated with the substance or mixture and the possibilities of contact.

Respiratory Protection: Do not breathe dust. Full-face mask. In case of insufficient ventilation use respiratory equipment while preparing the mixture. (Affinity FR FFP1 D - CE 0121 according to EN 149:2001).

Thermal hazards: Not available

Skin Protection: Wear suitable clothing to avoid repeated or delayed contact with skin. Thoroughly wash working clothes daily. After use, wash with soap and water.

Environmental exposure controls

Appropriate exposure control measures related to the identified use(s) of the substance or mixture: No information available.

Structural measures to prevent exposure: No information available.

Organisational measures to prevent exposure: No information available.

Technical measures to prevent exposure: No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: Blue powder

Odour: odourless

Odour threshold: No data available

pH-value at 1%: 6 - 8 (20 °C)

Melting point/freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: >61 °C

Evaporation Rate: No data available

Flammability (solid, gas): Non-flammable

Upper/lower flammability or explosive limits: No data available

Vapour pressure: No data available

Vapour density: No data available

Relative density: 0.55 - 0.70 g/cm³ (20 °C)

Solubility (is): Water solubility: practically insoluble
Fat solubility: insoluble in common solvents

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

Auto-ignition temperature: >600 °C

Decomposition temperature: >200 °C

Viscosity: No data available

Explosive properties: Non-explosive

Oxidising properties: No data available

9.2. Other information

Other information: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: No data available

10.2. Chemical stability

Chemical stability: Stable under normal conditions of storage for a period of 2 years, as minimum.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: No data available

10.4. Conditions to Avoid

BORDEAUX MIXTURE 20% WP

Conditions to Avoid:

Moisture and temperatures above 40 ° C

10.5. Incompatible materials

Incompatible materials:

Acids and ammonium salts partially dissolve the product

10.6. Hazardous decomposition products

Hazardous decomposition products:

Bordeaux Mixture decomposes above 200 °C producing sulfur oxides (SOx)

SECTION 11: Toxicological information
11.1. Information on toxicological effects

11.1.2. Mixtures		Results
Acute toxicity	Ingestion: LD50	rat > 2000 mg/kg
	Inhalation: LC50	5.06 mg/l rat 4h
	Skin: LD50	rat > 2000 mg/kg
Irritation:		Skin: No oedema, no erythema (rabbit) Eye: No effects (rabbit)
Corrosivity:		No information available.
Sensitisation:		Non sensitizer (Guinea pig)
Repeated dose toxicity:		No information available.
Carcinogenicity:		Not applicable. Copper is widely present in all food, feedingstuffs and water.
Mutagenicity:		Not applicable. Copper is widely present in all food, feedingstuffs and water.
Toxicity for reproduction:		Not applicable. Copper is widely present in all food, feedingstuffs and water.

Information on likely routes of exposure:

There is no evidence of symptoms associated with this substance/mixture

Main effects:

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

No information available.

Interactive effects:

No information available.

Other information:

No information available.

SECTION 12: Ecological information
12.1. Toxicity
Acute toxicity (short-term)

 Fishes: CE50 / 96 h / *O. mykiss* = 0.052 mg Cu/l

Crustaceans: N/A.

Algae: N/A.

Other aquatic plants: N/A.

Micro-organisms: N/A.

Macro-organisms: N/A.

Environmental toxicity

Birds: N/A.

Bees: N/A.

Plants: N/A.

Chronic (long-term) toxicity

Fish: N/A.

 invertebrates: 21 d NOEC aquatic invertebrates (*D.magna*) = 0.024 mg Cu/L

Algae: N/A.

Other aquatic plants: N/A.

Microorganisms: N/A.

Macroorganisms: N/A.

Environmental toxicity

Birds: N/A.

Bees: N/A.

Plants: N/A.

12.2. Degradability



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Replaces version: 2.0 (02-03-2015)
Page: 6 / 8

BORDEAUX MIXTURE 20% WP

Abiotic Degradation:	No information available.
Physical- and photo-chemical elimination:	No information available.
Biodegradation:	No information available.
Other processes:	Bordeaux Mixture technical: Copper is strongly absorbed by soils, and it does not degrade.
12.3. Bioaccumulative potential	
Partition coefficient n-octanol /water (Kow):	No information available.
Bioconcentration factor (BCF):	Bordeaux Mixture technical: Copper does not bioaccumulate. Organisms excrete copper naturally.
12.4. Mobility in soil	
Known or predicted distribution to environmental compartments:	Bordeaux Mixture technical: Copper that is added to the soil mainly becomes bound to organic material. The content of organic material in the soil and the pH determine the degree of copper availability. Through the strong bounding to various soil components, the leaching out of copper is extremely low. Mobility in soil towards deeper layers is negligible.
Surface tension:	No information available.
Adsorption/Desorption:	No information available.
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessment:	This mixture does not contain any substance that has been assessed as PBT or vPvB
12.6. Other adverse effects	
Other adverse effects:	No information available.
Environmental fate:	No information available.
Photochemical ozone creation potential:	No information available.
Ozone depletion potential:	No information available.
Endocrine disrupting potential:	No information available.
Global warming potential:	No information available.
12.7. Other information	
Other information:	No information available.
12.8. Ecotoxicity	
Ecotoxicity:	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
12.9. Toxicological effects	
Toxicological effects:	No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of waste treatment of both substance or mixtures:	Waste should not be removed through the sewer. The elimination will be followed according to local, State or national provisions, either by incineration or recycling.
Appropriate methods of waste treatment of contaminated packaging:	The elimination will be followed according to local, State or national provisions. Either by incineration or recycling.
Waste codes / waste designations according to LoW:	No information available.
Appropriate methods of waste treatment of both substance or mixtures:	No information available.
Appropriate methods for the elimination of contaminated packaging:	No information available.
Special precautions:	No information available.
Community/national/regional provisions relating to waste management:	No information available.
Community/national/regional provisions relating to waste:	The elimination will be followed according to local, State or national provisions.


SECTION 14: Transport information

ADR/RID

UN Number:	UN3077
Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains

BORDEAUX MIXTURE 20% WP

Class: BORDEAUX MIXTURE TECHNICAL)
9



ADR/RID Classification: M7
Packing group: III
Label: 9
Special Provisions: 274,335,601
Limited Quantities: 5 kg
Packing Instructions: P002,IBC08,LP02,R001
Special Packing Provisions:: VV1
Hazard identification number: 90
Kemler Code: 000

IMDG

Marine Pollutant: Yes
UN Number: UN3077
Packing group: -
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BORDEAUX MIXTURE TECHNICAL)
Class: -
Label: -
EmS Guide: F-A, S-F

IATA

UN Number: UN3077
Packing group: -
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (contains BORDEAUX MIXTURE TECHNICAL)
Class: -
Label: -

SECTION 15: Regulatory information

EU regulations
Phytosanitary Registration Number: 3339
Use authorizations: No information available.
Use restrictions: The substance has no restriction of use.
Other EU regulations: No information available.
Information on emission of volatile organic compounds (VOC): No information available.
National regulations: No information available.

15.2. Chemical safety assessment

Chemical safety assessment: No information available.

SECTION 16: Other information

Reason for revision: Classification and labelling updated according to the 1272/2008 regulation. Anti-poisoning telephone number.

Changes to the previous version: Section 1, 2, 3 and 16.

Labelling according to directives 67/548/EEC and 1999/45/EC

Symbol(s) of danger - Indication(s) of danger
N: Dangerous for the environment
Xi: Irritant



Risk Phrases

- R41: Risk of serious damage to eyes.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

- S20: When using do not eat or drink.
S21: When using do not smoke.
S22: Do not breathe dust.
S23: Do not breathe vapours/sprays
S24: Avoid contact with skin.
S39: Wear eye/face protection.

Abbreviations and acronyms:

SDS: Safety Data Sheet
OEL: Occupational Exposure Limit
NACE: Nomenclature Générale des Activités Économiques dans les Communautés Européennes (French, EU classification system)
TRGS: Real Time Gross Settlement
OECD: Organisation for Economic Co-operation and Development
PBT: Persistent, Bioaccumulative and Toxic
vPvB: Very Persistent and very Bioaccumulative
DNEL: Derived non-effect level
PNEC: Predicted non-effect concentration
LC50: Lethal concentration 50%
LD50: Lethal dose 50%
NOEL: Non-observed effect level
NOAEL: Non observed adverse effect level
NOAEC: Non observed adverse effect concentration
SVHC: Substances of Very High Concern

Key literature references and sources for data:

REACH Registraton dossier and database of registered substances on the European Chemicals Agency (ECHA).

Indication of which of the methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 was used for the purpose of classification:

No information available.

Hazard statements from section 3:

Hazard statement(s)

- H318: Causes serious eye damage.
H332: Harmful if inhaled.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Advice on any training appropriate for workers:

No information available.

Other information:

This information is based on the knowledge we have so far. This SDS refers exclusively to this product. All chemical substances in this product have been reported or are exempt from notification under notification to the EC laws.

Information in this SDS is based on the available published sources and is believed to be accurate. No warranty, express or implied, is made and our company assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application. The specifications of this safety data sheet describes the safety requirements of our product, this is not a guarantee of characteristics. They are based on current state.