

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

1.1. Product identifier

Trade Name: **BORDEAUX MIXTURE 20% + FOLPET 10% WP**

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

(00 34) 935.796.677

Availability: (8:00 AM - 17:00 PM EST)

Other comments: 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)
Acute Tox. Oral - Cat. 4	H302: Harmful if swallowed
Acute Tox. Inhalation - Cat. 4	H332: Harmful if inhaled.
Skin sens. - Cat. 1	H317: May cause an allergic skin reaction.
Carc. - Cat. 2	H351: Suspected of causing cancer
Aquatic Acute - Cat. 1	H400: Very toxic to aquatic life
Aquatic Chronic - Cat. 2	H411: Toxic to aquatic life with long lasting effects

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008



Signal word

Warning

Hazard statement(s)

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H332	Harmful if inhaled.
H351	Suspected of causing cancer
H410	Very toxic to aquatic life with long lasting effects

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust and spray.
P270	Do not eat, drink or smoke when using this product.
P280	Wear chemical protective gloves and protective clothing.
P284	Wear respiratory protection.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.

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	72.7 – 78.4	-	8011-63-0	Acute Tox. Inhalation 4 Eye Dam. 1 Aquatic Acute 1 Aquatic Chronic 1	H332 H318 H400 H410
FOLPET (ISO)	10.2 – 10.9	-	133-07-3	Skin Sens. 1 Eye Irrit. 2 Acute Tox. 4 Carc. 2 Aquatic Acute 1	H317 H319 H332 H351 H400

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

Composition (%) :

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

Folpet 10% w/w

SECTION 4: First aid measures
4.1. Description of first aid measures

General notes:

If symptoms persist, 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 for at least 15 minutes while removing contaminated clothing and shoes.

In case of contact with eyes:

Get medical attention if irritation develops.

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 if irritation occurs.

In case of ingestion:

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.

Request attention medical and show this tab or label

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:

Headache and weakness may occur, proceeding to fainting or unconsciousness

Burning pain in the mouth and pharynx, nausea, watery and bloody stools, diarrhea, decrease in blood pressure. Sweating, tearing, and seizures. Risk of renal and hepatic alterations.

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

Indication of any immediate medical attention and special treatment needed: Not determined

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: CSCl₂, HCl, SO_x, NO_x, CO, CO₂ are products of combustion.

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: Avoid contact with mouth, eyes and skin.
Wear suitable protective clothing and gloves to prevent contamination.
Keep unauthorised people, children and animals away from the spillage area.
Do not breath the powder.

For emergency responders: Not available

6.2. Environmental precautions

Environmental precautions: Keep out of waterways.

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 contaminated area 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.

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 should have adequate ventilation and safety showers nearby.

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 area 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: 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

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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.
Technical measures to prevent exposure:	No information available.
Individual protection measures, such as personal protective equipment	
Eye/Face protection:	Avoid contact. Use 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:	Mask, boots or coverall depending on the hazards associated with the substance or mixture and the possibilities of contact.
Respiratory Protection:	Do not breathe dust. In case of insufficient ventilation use respiratory equipment (full-face mask) 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:	Light blue powder
Odour:	Odourless
Odour threshold:	No data available
pH-value at 1%:	6 - 7.5 (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:	0.65 - 0.8 g/cm ³ (20 °C)
Solubility (is):	Water solubility: Bordeaux mixture: practically insoluble. Folpet: 0.8 mg/l (25°C).
	Fat solubility: Bordeaux mixture: practically insoluble. Folpet: Tetrachloride: 6 g/l (25°C), Toluene: 26 g/l (25°C), Methanol: 3 g/l (25°C).
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	>600 °C
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Nn-explosive

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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

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: It does not decompose if stored and applied as directed.
For combustion products, see Section 5 of this SDS.

SECTION 11: Toxicological information
11.1. Information on toxicological effects

11.1.2. Mixtures		Results
Acute toxicity	Ingestion: LD50	500 < LD50 ≤ 2000 mg/kg (rat)
	Inhalation: LC50	3.49 mg/l 4h (rat)
	Skin: LD50	rat > 2000 mg/kg
Irritation:		Skin: No oedema, no erythema (rabbit) Eye: No irritant (rabbit)
Corrosivity:		No information available.
Sensitisation:		Non sensitizer (mice)
Repeated dose toxicity:		No information available.
Carcinogenicity:		[Folpet] ≥ 1%. Folpet is classified as category 2 Carcinogen.
Mutagenicity:		Not mutagenic
Toxicity for reproduction:		Not considered toxic to the reproductive system.

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: LC₅₀ / 96 h / *O. Mykiss* = 0.110 mg/l

Crustaceans: No information available.

Algae: No information available.

Other aquatic plants: No information available.

Micro-organisms: No information available.

Macro-organisms: No information available.

Environmental toxicity

Birds: No information available.

Bees: No information available.

Plants: No information available.

Chronic (long-term) toxicity

Fish: No information available.

Crustaceans: No information available.

 Algae: E_rC₅₀ / *Pseudokirchneriella subcapitata* / 72h = 0.025 mg Cu/l

Other aquatic plants: No information available.

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Microorganisms:	No information available.
Macroorganisms:	No information available.
Environmental toxicity	
Birds:	No information available.
Bees:	No information available.
Plants:	No information available.
12.2. Degradability	
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. - Folpet technical: biodegradable.
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. - Folpet technical: not bioaccumulate.
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. - Folpet technical: Doesn't leach into groundwater.
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. Elimination will be carried out according to local, State or national provisions, either by incineration or recycling.
Appropriate methods of waste treatment of contaminated packaging:	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:	Elimination will be carried out 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 TECHNICAL, FOLPET TECHNICAL)
Class:	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, FOLPET 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, FOLPET TECHNICAL)
Class:	-
Label:	-

SECTION 15: Regulatory information

EU regulations	
Phytosanitary Registration Number:	A plant protection registration number has not been declared.
Use authorizations:	Fungicide
Use restrictions:	Do not use for other purposes other than those described in the product.
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:	Updating to regulation (EC) 2015/830 amending Annex II of regulation 1907/2006 REACH. Updating of harmonization classification of bordeaux mixture according to annex VI from CLP regulation.
Changes to the previous version:	Section 3.2

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

Symbol(s) of danger - Indication(s) of danger

N: Dangerous for the environment

Xn: Harmful



Risk Phrases

R20: Harmful by inhalation.

R22: Harmful if swallowed.

R40: Limited evidence of a carcinogenic effect.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S 2: Keep out of the reach of children.

S13: Keep away from food, drink and animal feedingstuffs.

S20: When using do not eat or drink.

S21: When using do not smoke.

S22: Do not breathe dust.

S36: Wear suitable protective clothing.

S37: Wear suitable gloves.

S45: In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).

Authorisation REACH number(s) :

Not applicable

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.

Relevant hazard statements mentioned in section 3:

Hazard statement(s)

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H319: Causes serious eye irritation

H332: Harmful if inhaled

H351: Suspected of causing cancer

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects



SAFETY DATA SHEET

According to Regulation (EC) No 2015/830 amending Annex II of Regulation (EC)

No 1907/2006 (REACH)

WW_BM20FOL10 WP_2016_ENG

Revision date: 29-11-2016

Version: 3.0

Replaces version : 2.0 (19-05-2015)

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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.

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