# SAFETY DATA SHEET

### **BROCK**

This safety data sheet complies with the requirements of: Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS #: NP-0056-A

Revision date: 2019-11-18

Format: EU Version 1.03

# Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Code(s) NP-0056-A

Product Name BROCK

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

**Recommended Use:** A micronutrient suspension concentrate for use in agriculture

**Restrictions on use**Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Manufacturer FMC Agro Limited

Rectors Lane
Pentre
Flintshire
CH5 2DH
United Kingdom
Tel: + 44 1244 537370
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

**Contact point** Tel: +44(0) 1244 537370

Email: fmc.agro.uk@fmc.com

1.4. Emergency telephone number

**Emergency telephone** Medical emergencies:

Austria: +43 1 406 43 43 Belgium: +32 70 245 245 Bulgaria: +359 2 9154 409

Cyprus: 1401

Czech Republic: +420 224 919 293, +420 224 915 402

Denmark: +45 82 12 12 12 France: +33 (0) 1 45 42 59 59 Finland: +358 9 471 977 Greece: 30 210 77 93 777 Hungary: +36 80 20 11 99

Ireland (Republic): +352 1 809 2166

Italy: +39 02 6610 1029

Lithuania: +370 523 62052, +370 687 53378

Luxembourg: +352 8002 5500 Netherlands: +31 30 274 88 88 Norway: +47 22 591300

Poland: +48 22 619 66 54, +48 22 619 08 97

Portugal: 800 250 250 (in Portugal only), +351 21 330 3284

Romania: +40 21318 3606

Page 1/10

**SDS #**: NP-0056-A **Revision date**: 2019-11-18

Version 1.03

Slovakia: +421 2 54 77 4 166 Slovenia: +386 41 650 500 Spain: +34 91 562 04 20 Sweden: +46 08-331231112

Switzerland: 145

United Kingdom: 0870 600 6266 (in the UK only)

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

# **Section 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture Regulation (EC) No 1272/2008

Chronic aquatic toxicity	Category 1 (H410)
EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.	

### 2.2. Label elements

#### Hazard pictograms



#### **Hazard Statements**

H410 - Very toxic to aquatic life with long lasting effects

EUH208: Contains 1,2-Benzisothiazolin-3-one. May produce an allergic reaction.

# **Precautionary Statements**

P273 - Avoid release to the environment

P391 - Collect spillage

P501: Dispose of contents/container as hazardous waste.

### 2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

# Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

The product is a mixture, not a substance.

# 3.2 Mixture containing the following hazardous ingredients:

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Copper(+1) oxide	Present	1317-39-1	1-10	Aquatic Acute 1 (H400)	01-2119513794-36- XXXX
ethane-1,2-diol	203-473-3	107-21-1	1-10	Aquatic Chronic 1 (H410)  Acute Tox. 4 (H302)  STOT RE 2: (H373)	01-2119456816-28- XXXX

### **Additional Information**

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16.

SDS #: NP-0056-A

**Revision date: 2019-11-18** 

Version 1.03

Contains 1,2-Benzisothiazolin-3-one (CAS number 2634-33-5) at a level below the concentration limit for classification of the mixture as sensitising.

# **Section 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures

Eye Contact Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if

irritation persists.

**Skin Contact** Wash off immediately with soap and plenty of water. If symptoms persist, call a doctor.

**Inhalation** Remove person from exposure ensuring one's own safety while doing so.

Ingestion Rinse mouth. Do NOT induce vomiting. Get medical attention if symptoms occur.

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

Most important symptoms and effects, both acute and delayed

Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

May cause an allergic reaction in individuals already sensitised to

1,2-Benzisothiazolin-3-one.

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

Indication of immediate medical attention and special treatment needed, if necessary

Eye bathing equipment should be available on the premises. Show this safety data sheet to the doctor in attendance.

# **Section 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media

# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers / tanks with water spray.

# Unsuitable extinguishing media

No information available

# 5.2. Special hazards arising from the substance or mixture

Toxic fumes may be released in fire situations.

# 5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal Precautions**

**SDS #:** NP-0056-A **Revision date: 2019-11-18** 

Version 1.03

For personal protection see section 8. Stop leak if you can do it without risk. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. In the case of large spills (1 ton or more), alert the appropriate authorities.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

#### For emergency responders

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

# 6.3. Methods and material for containment and cleaning up

**Methods for Containment** Surface drains within close vicinity of the spill should be covered. Dike to confine spill and

absorb with non-combustible absorbent such as clay, sand or soil.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth,

diatomaceous earth, vermiculite) and place in container for disposal according to

local/national regulations (see Section 13).

#### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

# Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

#### Handling

Use only in area provided with appropriate exhaust ventilation.

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

# 7.2. Conditions for safe storage, including any incompatibilities

### Storage

Protect from freezing. Store above 5°C. Keep in a dry, cool and well-ventilated place. Keep away from direct sunlight. Keep away from heat. Keep out of reach of children and animals. Keep away from food, drink and animal feedingstuffs.

#### 7.3. Specific end use(s)

### Specific Use(s)

No data available.

### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

# Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

Chemical name	European Union	The United Kingdom	France	Spain	Germany
ethane-1,2-diol	TWA 20 ppm	STEL 40 ppm	TWA 20 ppm	TWA 20 ppm	=
107-21-1	TWA 52 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>	TWA 52 mg/m <sup>3</sup>	
	STEL 40 ppm	STEL 30 mg/m <sup>3</sup>	STEL 40 ppm	STEL 40 ppm	
	STEL 104 mg/m <sup>3</sup>	TWA 10 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	STEL 104 mg/m <sup>3</sup>	
	S*	TWA 20 ppm	P*	S*	
		TWA 52 mg/m <sup>3</sup>			
		Skin			
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
Copper(+1) oxide	-	-	=	TWA 0.02 mg/m <sup>3</sup>	=
1317-39-1					
ethane-1,2-diol	TWA 20 ppm	TWA 20 ppm	Huid*	TWA 20 ppm	TWA 10 ppm

**SDS #**: NP-0056-A **Revision date**: 2019-11-18

Version 1.03

107-21-1	TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 104 mg/m <sup>3</sup> Pelle*	TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ Ceiling 100 mg/m³ C(A4) P*	STEL 104 mg/m³ TWA 52 mg/m³ TWA 10 mg/m³	TWA 50 mg/m³ STEL 40 ppm STEL 100 mg/m³ iho*	TWA 26 mg/m³ TWA 10 mg/m³ H*
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
ethane-1,2-diol 107-21-1	H* STEL 20 ppm STEL 52 mg/m³ TWA 10 ppm TWA 26 mg/m³	SS-C** H* TWA 10 ppm TWA 26 mg/m³ STEL 20 ppm STEL 52 mg/m³	TWA 15 mg/m³ STEL 50 mg/m³	TWA 20 ppm TWA 52 mg/m³ S* STEL 104 mg/m³ STEL 40 ppm	TWA 10 mg/m <sup>3</sup> TWA 20 ppm TWA 52 mg/m <sup>3</sup> STEL 40 ppm STEL 30 mg/m <sup>3</sup> STEL 104 mg/m <sup>3</sup> Skin

**Derived No Effect Level (DNEL)** No information available.

Predicted No Effect Concentration

(PNEC)

No information available.

#### 8.2. Exposure controls

Engineering measures The floor of the storage room must be impermeable to prevent the escape of liquids.

# Personal protective equipment

**Eye/Face Protection** Safety glasses with side-shields. Provide emergency on-site eyewash.

Hand Protection Protective gloves. Impervious butyl rubber gloves. Wear chemical protective gloves made of

materials such as nitrile or neoprene.

Skin and Body Protection Wear protective gloves/clothing.

**Respiratory Protection** Not required under normal use.

Environmental exposure controls Refer to specific Member State legislation for requirements under Community

environmental legislation.

# **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1. Information on basic physical and chemical properties

Physical State Liquid Appearance Liquid

Odour Barely perceptible
Colour Red brown

Odour threshold No information available

**pH** 7.0 - 9.0

Melting point/freezing pointNo information availableBoiling point/boiling rangeNo information availableFlash pointNo information availableEvaporation RateNo information available

Flammability (solid, gas) Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density

No information available
No information available
No information available
No information available

Specific gravity 1.73 - 1.75

Water solubility
Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
Viscosity, kinematic

Dispersible in water
No information available
No information available
No information available
No information available

#### NP-0056-A BROCK

**SDS #:** NP-0056-A

**Revision date: 2019-11-18** 

Version 1.03

Viscosity, dynamicNo information availableExplosive propertiesNo information availableOxidising propertiesNon-oxidizing (by EC criteria)

9.2. Other information

Softening point
Molecular weight
VOC content (%)
Density
Bulk density
No information available

# **Section 10: STABILITY AND REACTIVITY**

# 10.1. Reactivity

None under normal use conditions

#### 10.2. Chemical stability

Stable under recommended storage conditions.

# **Explosion data**

Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

# 10.3. Possibility of hazardous reactions

#### Hazardous polymerisation

Hazardous polymerization does not occur.

#### **Hazardous reactions**

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

### 10.4. Conditions to avoid

Heat.

### 10.5. Incompatible materials

Strong oxidising agents, Strong acids, Strong bases.

### 10.6. Hazardous decomposition products

May emit toxic fumes under fire conditions.

# Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

**Acute toxicity** 

# **Product Information**

LD50 Oral > 3000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available.

#### NP-0056-A BROCK

**SDS #**: NP-0056-A

**Revision date: 2019-11-18** 

Version 1.03

SensitisationNo information availableMutagenicityNo information available.CarcinogenicityNo information available.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Symptoms Skin contact: May see mild irritation at the site of contact.

Eye contact: Possible irritation and redness.

Ingestion: Possible irritation of the throat.

Inhalation: May experience irritation of the throat with a feeling of tightness in the chest.

Delayed/Immediate effects: Immediate effects can be expected after short-term exposure.

May cause an allergic reaction in individuals already sensitised to

1,2-Benzisothiazolin-3-one.

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

### 12.1. Toxicity

Ecotoxicity RAINBOW TROUT (Oncorhynchus mykiss): 96H LC50 = 2.79 mg/L (calculated)

DAPHNIDS (Daphnia magna): 48H LC50 = 0.843 mg/L (calculated)

ALGAE (Pseudokirchneriella subcapitata): 72H ErC50 = 0.991 mg/L (calculated)

# 12.2. Persistence and degradability

No information available.

# 12.3. Bioaccumulative potential

No information available.

# 12.4. Mobility in soil

### Mobility in soil

No information available.

# 12.5. Results of PBT and vPvB assessment

This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

No information available

SDS #: NP-0056-A

Revision date: 2019-11-18 Version 1.03

# **Section 13: DISPOSAL CONSIDERATIONS**

13.1. Waste treatment methods

Waste from residues / unused

products

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not

discharge to sewer systems. The diluted product and wash waters may be sent to a

licensed facility for wastewater treatment.

Contaminated Packaging Clean container with water. Dispose of rinse water in accordance with local and national

guidelines. Empty containers should be taken to an approved waste handling site for

recycling or disposal.

EWC Waste Disposal No 02 01 08

**OTHER INFORMATION** NOTE: The user's attention is drawn to the possible existence of specific European,

national or local regulations regarding disposal.

# **Section 14: TRANSPORT INFORMATION**

IMDG/IMO

**14.1 UN/ID no** UN3082

14.2 Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(COPPER (I) OXIDE)

 14.3 Hazard class
 9

 14.4 Packing Group
 III

 14.5 Marine Pollutant
 Yes

 Environmental Hazard
 Yes

 14.6 Special Provisions
 None

14.7 Transport in bulk according to This product is not transported in bulk containers.

Annex II of MARPOL and the IBC

Code

<u>RID</u>

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(COPPER (I) OXIDE)

14.3 Hazard class914.4 Packing GroupIII14.5 Environmental HazardYes14.6 Special ProvisionsNone

ADR/RID

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(COPPER (I) OXIDE)

14.3 Hazard class914.4 Packing GroupIII14.5 Environmental HazardYes14.6 Special ProvisionsNone

ICAO/IATA

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(COPPER (I) OXIDE)

14.3 Hazard class914.4 Packing GroupIII14.5 Environmental HazardYes14.6 Special ProvisionsNone

**SDS #**: NP-0056-A

**Revision date:** 2019-11-18

Version 1.03

# **Section 15: REGULATORY INFORMATION**

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

National regulations Not applicable

# **European Union**

#### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

# **Persistent Organic Pollutants**

Not Applicable

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not Applicable

### **International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Copper(+1) oxide 1317-39-1	Х	Х	Х	Х	Х	X	Х	Χ
ethane-1,2-diol 107-21-1	Х	Х	Х	Х	Х	X	Х	Х

# 15.2. Chemical safety assessment

A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

# **Section 16: OTHER INFORMATION**

# Key or legend to abbreviations and acronyms used in the safety data sheet

# Full text of H-Statements referred to under sections 2 and 3

EUH208 - May produce an allergic reaction

H302 - Harmful if swallowed

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS: CAS (Chemical Abstracts Service)

Ceiling: Maximum limit value:

**DNEL:** Derived No Effect Level (DNEL)

**EINECS**: EINECS (European Inventory of Existing Chemical Substances)

GHS: Globally Harmonised System (GHS)

IATA: International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods (IMDG)

LC50: LC50 (lethal concentration)

LD50: LD50 (lethal dose)

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals

#### NP-0056-A BROCK

**SDS #**: NP-0056-A

Revision date: 2019-11-18

Version 1.03

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

STEL: Short term exposure limit

**SVHC**: Substances of Very High Concern for Authorisation:

**TWA:** time weighted average

**vPvB:** very Persistent and very Bioaccumulative

Revision date: 2019-11-18

Reason for revision: Format Change.

# **Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

# Prepared By

**FMC** Corporation

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**End of Safety Data Sheet**