# SAFETY DATA SHEET

# **COPMANG PLUS**

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



SDS #: NP-0077-1-A

Revision date: 2019-09-25

Format: EU Version 1.01

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

Product Code(s) NP-0077-1-A

Product Name COPMANG PLUS

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

Recommended Use: A fertilizer with micronutrients for use in agriculture and horticulture

**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

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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

Skin corrosion/irritation	Category 2 (H315)
Serious eye damage/eye irritation	Category 1 (H318)
Specific target organ toxicity — repeated exposure	Category 2 (H373)
Chronic aquatic toxicity	Category 2 (H411)

## 2.2. Label elements

#### Hazard pictograms



Signal Word Danger

## **Hazard Statements**

H315 - Causes skin irritation

H318 - Causes serious eye damage

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

H411 - Toxic to aquatic life with long lasting effects

# **Precautionary Statements**

P260 - Do not breathe spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P501: Dispose of contents/container as hazardous waste in accordance with local regulations.

#### 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	Regulation (FC) No. 1272/2008	
MANGANESE (II)	Present	7785-87-7	10-30	STOT RE 2 (H373)	01-2119456624-35-

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SULPHATE				Aquatic Chronic 2 (H411)	XXXX
COPPER DINITRATE	Present	3251-23-8	1-10	Skin Corr. 1B (H314)	No data available
				Aquatic Acute 1 (H400)	
				Aquatic Chronic 2 (H411)	
ethane-1,2-diol	203-473-3	107-21-1	1-10	Acute Tox. 4 (H302)	01-2119456816-28-
				STOT RE 2: (H373)	XXXX

## **Additional Information**

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

# **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. Transfer to

hospital for specialist examination.

**Skin Contact** Immediately remove all stained or splashed clothing that is not adhering to the skin. 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. Call a doctor

immediately.

**Ingestion** Rinse mouth. Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate

medical attention.

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

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

# 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

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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**

Do not attempt to take action without suitable protective clothing. 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. Avoid contact with skin, eyes and clothing.

# 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	=

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107-21-1	TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ S*	STEL 104 mg/m³ STEL 30 mg/m³ TWA 10 mg/m³ TWA 20 ppm TWA 52 mg/m³ Skin	TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ P*	TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ S*	
Chemical name	Italy	Portugal	The Netherlands	Finland	Denmark
MANGANESE (II) SULPHATE 7785-87-7	-	-	-	TWA 0.02 mg/m <sup>3</sup>	-
COPPER DINITRATE 3251-23-8	-	-	-	TWA 0.02 mg/m <sup>3</sup>	-
ethane-1,2-diol 107-21-1	TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ Pelle*	TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 104 mg/m³ Ceiling 100 mg/m³ C(A4) P*	Huid* STEL 104 mg/m³ TWA 52 mg/m³ TWA 10 mg/m³	TWA 20 ppm TWA 50 mg/m³ STEL 40 ppm STEL 100 mg/m³ iho*	TWA 10 ppm 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/m <sup>3</sup> STEL 50 mg/m <sup>3</sup>	TWA 20 ppm TWA 52 mg/m³ S* STEL 104 mg/m³ STEL 40 ppm	TWA 10 mg/m³ TWA 20 ppm TWA 52 mg/m³ STEL 40 ppm STEL 30 mg/m³ STEL 104 mg/m³ Skin

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

**Predicted No Effect Concentration** 

(PNEC)

No information available.

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation, especially in confined areas. The floor of the storage room

must be impermeable to prevent the escape of liquids.

Personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles. Provide emergency on-site eyewash.

**Hand Protection** Gloves (acid resistant).

**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 No information available
Odour Perceptible odour
Colour Greenish-blue

Odour threshold No information available

oH 1.5 - 2.5

Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation Rate

No information available
No information available
No information available

Flammability (solid, gas) Flammability Limit in Air

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Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density

No information available
No information available
No information available

**Specific gravity** 1.31 - 1.32 **Water solubility** Soluble in water

Solubility in other solvents No information available Partition coefficient No information available **Autoignition temperature** No information available No information available **Decomposition temperature** Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** No information available **Oxidising properties** Non-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 reducing agents, 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**

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# **Product Information**

.

LD50 Oral > 5000 mg/kg (rat) (Calculated Estimated Acute Toxicity - EAT)

Skin corrosion/irritation Serious eye damage/eye irritation

Sensitisation Mutagenicity Carcinogenicity No information available.
No information available.
No information available
No information available.
No information available.

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

**Symptoms** Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and

stomach pain may occur. There may be vomiting.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

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

**Aspiration hazard** No information available.

# **Section 12: ECOLOGICAL INFORMATION**

12.1. Toxicity

Ecotoxicity RAINBOW TROUT (Oncorhynchus mykiss): 96H LC50 = 9.55 mg/L (calculated)

DAPHNIDS (Daphnia magna): 48H LC50 = 3.65 mg/L (calculated)

GREEN ALGAE: 72H ErC50 = 9.02 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.

Mobility

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Soluble in water.

# 12.5. Results of PBT and vPvB assessment

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

## 12.6. Other adverse effects

Toxic to aquatic organisms.

# **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.

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 (Manganese sulfate; Copper dinitrate)

14.3 Hazard class914.4 Packing GroupIII14.5 Marine PollutantYesEnvironmental HazardYes

**14.6 Special Provisions** No special precautions.

Tunnel code: E Transport category: 3

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 (Manganese sulfate; Copper dinitrate)

 14.3 Hazard class
 9

 14.4 Packing Group
 III

 14.5 Environmental Hazard
 Yes

**14.6 Special Provisions** No special precautions.

Tunnel code: E
Transport category: 3

ADR/RID

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s (Manganese sulfate; Copper dinitrate)

14.3 Hazard class914.4 Packing GroupIII14.5 Environmental HazardYes

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**14.6 Special Provisions** No special precautions.

Tunnel code: E Transport category: 3

ICAO/IATA

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s (Manganese sulfate; Copper dinitrate)

 14.3 Hazard class
 9

 14.4 Packing Group
 III

 14.5 Environmental Hazard
 Yes

**14.6 Special Provisions** No special precautions.

Tunnel code: E Transport category: 3

# **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)
MANGANESE (II) SULPHATE 7785-87-7	Х	Х	Х	Х	Х	X	Х	Х
COPPER DINITRATE 3251-23-8	Х	Х	Х	Х	Х	Х	Х	Х
ethane-1,2-diol 107-21-1	Х	Х	Х	Х	Х	Х	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

H302 - Harmful if swallowed

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H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

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

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

<u>Legend</u>

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

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:** 2019-09-25

Reason for revision: SDS sections updated.

## <u>Disclaimer</u>

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**