

SAFETY DATA SHEET

MCPP-P / Banvel K 600 / 84 g/L

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



SDS # : MY2997-A

Revision date: 2019-11-30

Format: EU

Version 1

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

Product Code(s) MY2997-A

Product Name MCPP-P / Banvel K 600 / 84 g/L

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

Recommended Use: Herbicide, Restricted to professional users

Restrictions on use Use as recommended by the label.

1.3. Details of the supplier of the safety data sheet

Supplier
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 E-Mail: SDS-Info@fmc.com
Phone: +1 215-299-6000 (General Information)

1.4. Emergency telephone number

Emergency telephone

For leak, fire, spill, or accident emergencies, call:
1 800 / 424-9300 (CHEMTREC - U.S.A. & Canada)
1 703 / 527 3887 (CHEMTREC - All Other Countries - Collect)

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
 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*

| | |
|-----------------------------------|-------------------|
| Acute toxicity - Oral | Category 4 (H302) |
| Skin corrosion/irritation | Category 2 (H315) |
| Serious eye damage/eye irritation | Category 1 (H318) |
| Acute aquatic toxicity | Category 1 (H400) |
| Chronic aquatic toxicity | Category 1 (H410) |

2.2. Label elements

Hazard pictograms



Signal Word
 Danger

Hazard Statements

H302 - Harmful if swallowed
 H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H410 - Very toxic to aquatic life with long lasting effects
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection
 P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
 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
 P332 + P313 - If skin irritation occurs: Get medical advice/attention
 P501 - Dispose of contents/ container to an approved waste disposal plant in accordance with local, regional, and national regulations.

2.3. Other hazards

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

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 Mixtures

| Chemical name | EC-No | CAS-No | Weight percent | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|--|-----------|------------|----------------|--|---------------------------|
| (R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPYONIC ACID, POTASSIUM SALT | 240-539-0 | 66423-05-0 | 54.6 | Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Chronic 2, H411 | No data available |
| DICAMBA, POTASSIUM SALT | 233-002-7 | 10007-85-9 | 7.6 | Acute Tox (Oral), (H302) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412) | No data available |
| Tetrasodium EDTA | 200-449-4 | 60-00-4 | 0.19 | Acute Tox. 4 (Inhalation), (H332) Eye Irrit. 2, (H319) STOT RE 2, (H373) | No data available |

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 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice. |
| Skin Contact | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. |
| Inhalation | Move to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical attention. |
| Ingestion | Rinse mouth. Call a poison control center or doctor immediately for treatment advice. |

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

| | |
|--|---|
| Most important symptoms and effects, both acute and delayed | May cause skin and eye irritation. Causes serious eye damage. |
|--|---|

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

| | |
|---|------------------------|
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. |
|---|------------------------|

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

| | |
|-------------------|--|
| Small Fire | Dry chemical, Carbon dioxide (CO ₂). |
|-------------------|--|

| | |
|-------------------|--------------------|
| Large Fire | Water spray, Foam. |
|-------------------|--------------------|

Unsuitable extinguishing media
 Avoid heavy hose streams.

5.2. Special hazards arising from the substance or mixture
 Thermal decomposition can lead to release of irritating gases and vapours.

5.3. Advice for firefighters
 As in any fire, wear self-contained breathing apparatus and full protective gear.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions
 Avoid contact with the skin and the eyes. Ensure adequate ventilation.

For further clean-up instructions, call FMC 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 release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for Containment

Nearby surface water drains should be covered. Minor spills on the floor or other impervious surface should immediately be swept up or preferably vacuumed up using equipment with high efficiency final filter. Transfer to suitable containers. Clean area with detergent and water. Do not let wash liquid enter drains or waterways. Absorb wash liquid with an inert absorbent such as universal binder, Fuller's earth, bentonite or other absorbent clay and collect in suitable containers. The used containers should be properly closed and labelled.

Methods for cleaning up

Pick up and transfer to properly labelled containers. Dispose of waste as indicated in 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

Ensure adequate ventilation. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep out of reach of children and animals. Keep container tightly closed.

Packageing material

Must only be kept in original packaging.

7.3. Specific end use(s)

Specific Use(s)

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

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT (66423-05-0)

United Kingdom WEL TWA (mg/m³) 10 mg/m³ 8 h

United Kingdom WEL STEL (mg/m³) 20 mg/m³ 15 min

EDTA (60-00-4)

EU Local name EDTA

EU Notes (Year of adoption 2009)

EU Regulatory reference SCOEL Recommendations

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Personal protective equipment

Eye/Face Protection Safety glasses with side-shields.

Hand Protection Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

Environmental exposure controls Avoid release to the environment. Refer to special instructions/Safety data sheets.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

| | |
|-------------------------------------|--------------------------|
| Physical State | Liquid |
| Appearance | Liquid |
| Odour | Phenolic |
| Colour | Light brown |
| Odour threshold | No information available |
| pH | 9.6 @ 100%; 8.5 @ 1% aq. |
| Melting point/freezing point | No information available |
| Boiling point/boiling range | > 100 °C |
| Flash point | > 200 °C |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit | No information available |
| Vapour pressure | No information available |
| Vapour density | No information available |
| Specific gravity | 1.292 |

| | |
|-------------------------------------|---|
| Water solubility | Miscible with water |
| Solubility in other solvents | No information available |
| Partition coefficient | -0.452 -0.19 (20°C, pH7, MCPP-p); -1.8 (20°C, pH7, Dicamba) |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | 72.8 mPa s |
| Explosive properties | No information available |
| Oxidising properties | Non-oxidizing (by EC criteria) |

9.2. Other information

| | |
|-------------------------|--------------------------|
| Softening point | No information available |
| Molecular weight | No information available |
| VOC content (%) | No information available |
| Density | No information available |
| Bulk density | No information available |
| K_{st} | 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.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

None under normal use.

Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects****Acute toxicity****Product Information**

LD50 Oral

834 mg/kg (rat)

LD50 Dermal > 400 mg/kg (rat)
Inhalation LC50 Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation Irritating to skin.
Serious eye damage/eye irritation Causes serious eye irritation.
Sensitisation Not classified (Based on available data, the classification criteria are not met)
Mutagenicity Not classified (Based on available data, the classification criteria are not met).
Carcinogenicity Not classified (Based on available data, the classification criteria are not met).

Reproductive toxicity Not classified (Based on available data, the classification criteria are not met).
STOT - single exposure Not classified.
STOT - repeated exposure Not classified.
Aspiration hazard Based on available data, the classification criteria are not met.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Very toxic to aquatic life with long lasting effects

The ecotoxicity of the product is measured as:

MCPP-P / BANVEL K 600 / 84 G/L AI
 EC50 48h crustacea > 100 mg/l Daphnia magna (MCPP-p 600+ Dicamba 80 g/l)
 EC50 72h algae > 100 mg/l Navicula pelliculosa(MCPP-p 600+ Dicamba 80 g/l)
 NOEC (chronic) >= 100 mg/l Daphnia magna (MCPP-p 600+ Dicamba 80 g/l)
 NOEC chronic algae 10 mg/l 72h; Navicula pelliculosa(MCPP-p 600+ Dicamba 80 g/l)

Additional ecotoxicological information

14 d ErC50 (Myriophyllum spicatum) 0146 mg/L (total shoot length); (MCPP-p 600+ Dicamba 80 g/l)
 14 d ErC10 (Myriophyllum spicatum) <0.05 mg/L (total shoot length); (MCPP-p 600+ Dicamba 80 g/l)

(R)-2-(4-CHLORO-2-METHYLPHENOXY)PROPIONIC ACID, POTASSIUM SALT
 (66423-05-0)

Additional ecotoxicological information
 14d ErC10 (Myriophyllum spicatum) 0.00106 mg/L
 14d ErC50 (Myriophyllum spicatum) 0.0269 mg/L
 14d ErC10 (Myriophyllum spicatum) 0.00106 mg/L
 14d ErC50 (Myriophyllum spicatum) 0.0269 mg/L

POTASSIUM 3,6-DICHLORO-O-ANISATE (10007-85-9)
 LC50 96h fish 135 mg/l Dicamba
 EC50 48h crustacea 110 mg/l Dicamba
 EC50 72h algae 250 mg/l Dicamba

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

The substance has a low potential to bioaccumulate in the environment.

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

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues / unused products Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated Packaging According to relevant local laws and national regulations.

Section 14: TRANSPORT INFORMATION

IMDG/IMO

| | |
|----------------------------------|--|
| 14.1 UN/ID no | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substance, liquid, n.o.s |
| 14.3 Hazard class | 9 |
| 14.4 Packing Group | III |
| 14.5 Marine Pollutant | Yes |
| Environmental Hazard | Yes |
| 14.6 Special Provisions | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |

Special provisions (IMDG) : 274, 335, 969
 Limited quantities (IMDG) : 5 L
 Excepted quantities (IMDG) : E1
 Packing instructions (IMDG) : P001, LP01
 Special packing provisions (IMDG) : PP1
 IBC packing instructions (IMDG) : IBC03
 Tank instructions (IMDG) : T4
 Tank special provisions (IMDG) : TP2, TP29
 EmS-No. (Fire) : F-A
 EmS-No. (Spillage) : S-F
 Stowage category (IMDG) : A

| | |
|--|---|
| 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code | The product is not transported in bulk by ship. |
|--|---|

RID

| | |
|----------------------------------|--|
| 14.1 UN/ID no | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substance, liquid, n.o.s (mecoprop-p) |
| 14.3 Hazard class | 9 |
| 14.4 Packing Group | III |
| 14.5 Environmental Hazard | Yes |
| 14.6 Special Provisions | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |

not release to the environment

ADR/RID

| | |
|----------------------------------|---|
| 14.1 UN/ID no | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substance, liquid, n.o.s (mecoprop-p) |
| 14.3 Hazard class | 9 |
| 14.4 Packing Group | III |
| 14.5 Environmental Hazard | Yes |
| 14.6 Special Provisions | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not discharge to the environment. |

Classification code (ADR) : M6
 Special provisions (ADR) : 274, 335, 375, 601
 Limited quantities (ADR) : 5l
 Excepted quantities (ADR) : E1
 Packing instructions (ADR) : P001, IBC03, LP01, R001
 Special packing provisions (ADR) : PP1
 Mixed packing provisions (ADR) : MP19
 Portable tank and bulk container instructions (ADR): T4
 Portable tank and bulk container special provisions (ADR): TP1, TP29
 Tank code (ADR) : LGBV
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Special provisions for carriage - Packages (ADR): V12
 Special provisions for carriage - Loading, unloading and handling (ADR): CV13
 Hazard identification number (Kemler No.) : 90

ICAO/IATA

| | |
|----------------------------------|--|
| 14.1 UN/ID no | UN3082 |
| 14.2 Proper Shipping Name | Environmentally hazardous substance, liquid, n.o.s (mecoprop-p) |
| 14.3 Hazard class | 9 |
| 14.4 Packing Group | III |
| 14.5 Environmental Hazard | Yes |
| 14.6 Special Provisions | Avoid any unnecessary contact with the product. Misuse can result in damage to health. Do not release to the environment |

PCA Excepted quantities (IATA) : E1
 PCA Limited quantities (IATA) : Y964
 PCA limited quantity max net quantity (IATA) : 30kgG
 PCA packing instructions (IATA) : 964
 PCA max net quantity (IATA) : 450L
 CAO packing instructions (IATA) : 964
 CAO max net quantity (IATA) : 450L
 Special provisions (IATA) : A97, A158, A197
 ERG code (IATA) : 9L

Section 15: REGULATORY INFORMATION

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

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) |
|---------------------------------------|----------------------|--------------|-------------------------|--------------|---------------|--------------|---------------------|------------------|
| DICAMBA, POTASSIUM SALT 10007-85-9 | | | X | | | | | |
| Tetrasodium EDTA 60-00-4 | X | X | X | X | X | X | X | X |

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
 H315 - Causes skin irritation
 H318 - Causes serious eye damage
 H319 - Causes serious eye irritation
 H332 - Harmful if inhaled
 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
 H411 - Toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

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 |
| RID: | Regulations Concerning the International Transport of Dangerous Goods by Rail |
| STEL: | Short term exposure limit |
| SVHC | SVHC: Substances of Very High Concern for Authorisation: |
| TWA: | time weighted average |
| vPvB: | very Persistent and very Bioaccumulative |

Key literature references and sources for data

Data measured on the product are unpublished company data. Data on ingredients are available from published literature and can be found several places.

Revision date: 2019-11-30

Reason for revision: Initial Release.

Training Advice This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Prepared By

FMC Corporation

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End of Safety Data Sheet