### **SAFETY DATA SHEET**

#### **BUTOXONE**

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



SDS #: 10241-A

Revision date: 2018-07-23

Format: EU Version 1.01

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

Product Code(s) 10241-A

Product Name BUTOXONE

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

Recommended Use: Herbicide

**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 (0) 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 Tel: +44(0)1244 537370 (Office hours only)

### 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) |
| Chronic aquatic toxicity          | Category 2 (H411) |

#### 2.2. Label elements

Hazard pictograms

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#### Signal Word Danger

### **Hazard Statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H411 - 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**

P264: Wash thoroughly after handling.

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P330 - Rinse mouth

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

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

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

P273 - Avoid release to the environment

P501 - Dispose of contents/container to hazardous or special waste collection point.

#### 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 Mixtures

| Chemical name | EC-No   | CAS-No    | Weight percent | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH<br>registration<br>number |  |
|---------------|---------|-----------|----------------|---|---------------------------------|--|
| MCPB-Na       | Present | 6062-26-6 | 30-50          | Acute Tox 4 (H302)  | No data available               |  |

### **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 Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a doctor if necessary.

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

attention immediately if symptoms occur.

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

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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

Immediate medical attention is required in case of ingestion or eye contact. Show this safety data sheet to the doctor in attendance. Eye bathing equipment should be available on the premises.

### **Section 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Dry chemical, CO2, water spray or alcohol-resistant foam. Using spraywater to cool the containers. Avoid heavy hose streams.

#### Unsuitable extinguishing media

No information available

#### 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. 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**

For personal protection see section 8. In case of spill, avoid contact. Isolate area and keep out animals and unprotected persons. Keep people away from and upwind of spill/leak. Stop leak if you can do it without risk. 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**Contain spills with earth or sand or inert absorbent.

Methods for cleaning up Pick up and transfer to properly labelled containers. Dispose of in accordance with all

applicable national environmental laws and regulations. Dispose of waste as indicated in

Section 13.

#### 6.4. Reference to other sections

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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, eyes and clothing. Use according to package label instructions. Refer to Section 8.

#### 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. Keep in a dry, cool and well-ventilated place. 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

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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

Predicted No Effect Concentration No information available.

(PNEC)

8.2. Exposure controls

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Eye/Face Protection** Face-shield. Maintain eye wash fountain and quick-drench facilities in work area.

**Hand Protection** PVC gloves. Nitrile rubber.

Skin and Body Protection Impervious clothing.

Respiratory Protection The product does not automatically present an airborne exposure concern during normal

handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

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

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Physical State Liquid

Appearance Soluble concentrate

Odour Phenolic Colour Dark brown

Odour threshold No information available

oH 9.6 @ 20 °C

Melting point/freezing point
Boiling point/boiling range
Flash point
Evaporation Rate
Flammability (solid, gas)

No information available
Approximately 100 °C
No information available
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit
Vapour pressure
Vapour density
Specific gravity

No information available
No information available
No information available
1.14 g/cm³ @ 20°C

Water solubility Miscible

Solubility in other solventsNo information availablePartition coefficientMCPB: Log Kow = 1.32 (pH 7)Autoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, kinematicNo information available

Viscosity, dynamic 52 mPa.s

Explosive properties No information available Oxidising properties No information available

9.2. Other information

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

### **Section 10: STABILITY AND REACTIVITY**

### 10.1. Reactivity

Stable under recommended storage conditions

#### 10.2. Chemical stability

Stable under recommended storage conditions.

#### **Explosion data**

**Sensitivity to Mechanical Impact** None. **Sensitivity to Static Discharge** None.

### 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

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No information available.

### 10.6. Hazardous decomposition products

See Section 5 for more information.

### **Section 11: TOXICOLOGICAL INFORMATION**

#### 11.1. Information on toxicological effects

#### **Acute toxicity**

### **Product Information**

**LD50 Oral** > 500 mg/kg (rat)

| Chemical name | LD50 Oral         | LD50 Dermal    | Inhalation LC50 |
|---------------|-------------------|----------------|-----------------|
| MCPB-Na       | = 700 mg/kg (Rat) | = 1 g/kg (Rat) |                 |

Skin corrosion/irritation
Serious eye damage/eye irritation
Sensitisation
Mutagenicity
Carcinogenicity
No 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.

**Aspiration hazard** No information available.

### **Section 12: ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

**Ecotoxicity** HONEYBEES (Apis mellifera): LD50 = 81 (MCPB) μg/bee

DUCKWEED (Lemna gibba): 17D EbC50 = 37(MCPB Na) mg/L ALGAE (Navicula pelliculosa): 72H EbC50 = 1.5(MCPB Na) mg/L

DAPHNIDS (Daphnia magna): 48H EC50 = 55 (MCPB Na) mg/l TROUT (Oncorhynchus

mykiss): 96H LC50 = 4.3 (MCPB Na) mg/L

#### 12.2. Persistence and degradability

Non-persistent.

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#### 12.3. Bioaccumulative potential

Does not bioaccumulate.

#### 12.4. Mobility in soil

#### Mobility in soil

No information available.

#### Mobility

MCPB:

At pH <7 Koc = 86 - 130; 1/n = 0.740 - 0.898. At pH >7 Koc = 31 - 48; 1/n = 0.898 - 0.995.

#### 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 product and packaging in accordance with the "Code of practice for using plant

protection products". A DEFRA publication.

Containers must be disposed of in accordance with local regulations. Refer to the product

label for container disposal instructions.

EWC Waste Disposal No 02 01 08

### **Section 14: TRANSPORT INFORMATION**

NOTE NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT

REGULATIONS.

IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Marine PollutantNot applicable

14.6 Special Provisions None

**14.7** Transport in bulk according to The product is not transported in bulk tankers.

Annex II of MARPOL and the IBC

Code

RID

14.1UN/ID noNot regulated14.2Proper Shipping NameNot regulated14.3Hazard classNot regulated14.4Packing GroupNot regulated14.5Environmental HazardNot applicable

14.6 Special Provisions None

#### ADR/RID

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14.1 UN/ID noNot regulated14.2 Proper Shipping NameNot regulated14.3 Hazard classNot regulated14.4 Packing GroupNot regulated14.5 Environmental HazardNot applicable

14.6 Special Provisions None

ICAO/IATA

14.1UN/ID noNot regulated14.2Proper Shipping NameNot regulated14.3Hazard classNot regulated14.4Packing GroupNot regulated14.5Environmental HazardNot applicable

14.6 Special Provisions None

### **Section 15: REGULATORY INFORMATION**

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

National regulations Product Registration Number: MAPP 14406.

#### **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<br>(United<br>States) | DSL<br>(Canada) | EINECS/ELINC<br>S (Europe) | ENCS<br>(Japan) | China<br>(IECSC) | KECL (Korea) | PICCS<br>(Philippines) | AICS<br>(Australia) |
|----------------------|----------------------------|-----------------|----------------------------|-----------------|------------------|--------------|------------------------|---------------------|
| MCPB-Na<br>6062-26-6 |                            |                 | X                          |                 |                  | Х            |                        | X                   |

### 15.2. Chemical safety assessment

A chemical safety assessment is not required to be included for this product.

### **Section 16: OTHER INFORMATION**

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

## Full text of R-phrases referred to under sections 2 and 3 Not applicable

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

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

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H318 - Causes serious eye damage

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:** 2018-07-23

**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**