



## FLIPPER

Version 2 / ZA  
102000034231

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Revision Date: 29.05.2026  
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### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name FLIPPER  
Product code (UVP) 85339192

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

Use Insecticide, Acaricide

#### 1.3 Details of the supplier of the safety data sheet

Supplier Bayer (Pty) Ltd.  
1st Floor, Waterfall Circle  
9 Country Estate Drive  
Waterfall City  
2090 Midrand, Johannesburg  
South Africa

Telephone +27 (011) 921 5911  
Telefax +27 (011) 921 5766  
Responsible Department QHSE - Nigel, South Africa  
+27 (011) 365 8675 (during business hours only)

#### 1.4 Emergency telephone no.

Emergency telephone no. +27 (0861) 555 777 (Western Cape Poisons Helpline)  
Global Incident Response Hotline (24h) +1 (760) 476 3964 (Company 3E for Bayer AG, Crop Science Division)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin irritation: Category 2  
H315 Causes skin irritation.

Eye irritation: Category 2  
H319 Causes serious eye irritation.

Specific target organ toxicity - single exposure: Category 3  
H335 May cause respiratory irritation.

Long-term (chronic) aquatic hazard: Category 3  
H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

Hazardous components which must be listed on the label:



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- Fatty acids, C8-18 and C18-unsatd., potassium salts



**Signal word:** Warning

### Hazard statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
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.

### Precautionary statements

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local regulation.

### 2.3 Other hazards

No additional hazards known beside those mentioned.

Fatty acids, C8-18, potassium salts: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

#### Chemical nature

Emulsion, oil in water (EW)  
Fatty acids C14-C20 potassium salts 479,8 g/l

#### Hazardous components

Chemical name	CAS-No.	Conc. [%]
Fatty acids, C8-18 and C18-unsatd., potassium salts	67701-09-1	>= 40 – <= 50

## SECTION 4: FIRST AID MEASURES



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### 4.1 Description of first aid measures

<b>General advice</b>	Move out of dangerous area. Place and transport victim in stable position (lying sideways). Remove contaminated clothing immediately and dispose of safely.
<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
<b>Eye contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Keep patient warm and at rest. Do NOT induce vomiting. Call a physician or poison control center immediately.

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

**Symptoms** To date no symptoms are known.

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

**Treatment** Treat symptomatically. There is no specific antidote. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

**Suitable** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
**Unsuitable** High volume water jet

**5.2 Special hazards arising from the substance or mixture** In the event of fire the following may be released:, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

### 5.3 Advice for firefighters

**Special protective equipment for firefighters** In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

**Further information** Contain the spread of the fire-fighting media. Do not allow run-off from fire fighting to enter drains or water courses.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**Precautions** Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment. Ensure adequate ventilation.

**6.2 Environmental precautions** Do not allow to get into surface water, drains and ground water.



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### 6.3 Methods and materials for containment and cleaning up

**Methods for cleaning up** Contain spillage and soak up with non-combustible absorbent material (e.g. sand, earth, clays, universal binder). Clean contaminated floors and objects thoroughly, observing environmental regulations. Clean with detergents. Avoid solvents. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections** Information regarding safe handling, see section 7.  
Information regarding personal protective equipment, see section 8.  
Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation. Avoid formation of aerosol.

**Advice on protection against fire and explosion** Keep away from heat and sources of ignition.

**Hygiene measures** Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly before using again.

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Store in original container. Store in a place accessible by authorized persons only. Keep away from direct sunlight. Protect from freezing.

**Advice on common storage** Keep away from food, drink and animal feedingstuffs.

**Suitable materials** Coex HDPE/PA

**7.3 Specific end use(s)** Refer to the label and/or leaflet.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

No known occupational limit values.

### 8.2 Exposure controls

**Respiratory protection** Respiratory protection is not required under anticipated circumstances of exposure.  
Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

**Hand protection** Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.  
Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot



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be removed. Wash hands frequently and always before eating, drinking, smoking or using the toilet.

Material	Nitrile rubber
Rate of permeability	> 480 min
Glove thickness	> 0,4 mm
Protective index	Class 6
Directive	Protective gloves complying with EN 374.

### Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

### Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.  
If there is a risk of significant exposure, consider a higher protective type suit.  
Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.  
If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

<b>Form</b>	Liquid
<b>Colour</b>	yellow
<b>Odour</b>	characteristic
<b>Odour Threshold</b>	No data available
<b>pH</b>	ca. 10,2 (1 %) 8,8 (100 %)
<b>Melting point/ range</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash point</b>	> 156 - 160 °C No flash point - Determination conducted up to the boiling point.
<b>Flammability</b>	The product is not flammable.
<b>Auto-ignition temperature</b>	444 °C
<b>Thermal decomposition</b>	No data available
<b>Minimum ignition energy</b>	No data available
<b>Self-accelerating decomposition temperature (SADT)</b>	No data available
<b>Upper explosion limit</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Relative vapour density</b>	No data available



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<b>Relative density</b>	No data available
<b>Density</b>	ca. 1,00 g/cm <sup>3</sup> (20 °C)
<b>Water solubility</b>	emulsifiable
<b>Partition coefficient: n-octanol/water</b>	Fatty acids, C8-18, potassium salts: No data available
<b>Viscosity, dynamic</b>	No data available
<b>Viscosity, kinematic</b>	> 106,43 mm <sup>2</sup> /s (40 °C) 208,16 mm <sup>2</sup> /s (20 °C)
<b>Oxidizing properties</b>	No oxidizing properties
<b>Explosivity</b>	Not explosive Regulation (EC) No. 440/2008, Annex, A.14
<b>9.2 Other information</b>	Further safety related physical-chemical data are not known.

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## SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	Stable under normal conditions.
<b>10.2 Chemical stability</b>	Stable under recommended storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	No hazardous reactions when stored and handled according to prescribed instructions.
<b>10.4 Conditions to avoid</b>	Extremes of temperature and direct sunlight.
<b>10.5 Incompatible materials</b>	Acids, Store only in the original container.
<b>10.6 Hazardous decomposition products</b>	No decomposition products expected under normal conditions of use.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 (Rat) > 5.050 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 2,15 mg/l Exposure time: 4 h Determined in the form of a respirable aerosol. Based on available data, the classification criteria are not met.
<b>Acute dermal toxicity</b>	LD50 (Rat) > 2.020 mg/kg
<b>Skin corrosion/irritation</b>	Irritating to skin. (Rabbit)



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**Serious eye damage/eye irritation** Irritating to eyes. (Rabbit)

**Respiratory or skin sensitisation** Skin: Non-sensitizing. (Guinea pig)

### Assessment STOT Specific target organ toxicity – single exposure

Fatty acids, C8-18, potassium salts: May cause respiratory irritation.

### Assessment STOT Specific target organ toxicity – repeated exposure

Fatty acids, C8-18, potassium salts: This information is not available.

### Assessment mutagenicity

Fatty acids, C8-18, potassium salts: This information is not available.

### Assessment carcinogenicity

Fatty acids, C8-18, potassium salts: This information is not available.

### Assessment toxicity to reproduction

Fatty acids, C8-18, potassium salts: This information is not available.

### Assessment developmental toxicity

Fatty acids, C8-18, potassium salts: This information is not available.

### Aspiration hazard

Based on available data, the classification criteria are not met.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) 17,4 mg/l static test; Exposure time: 96 h

**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 24,89 mg/l semi-static test; Exposure time: 48 h

**Chronic toxicity to aquatic invertebrates** NOEC (Crustaceans): 1,93 mg/l Exposure time: 21 d

EC10 (Crustaceans): 1,71 mg/l Exposure time: 21 d

**Toxicity to aquatic plants** ErC50 (Raphidocelis subcapitata (freshwater green alga)) 6,25 mg/l static test; Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)) 0,78 mg/l static test; Exposure time: 72 h

### 12.2 Persistence and degradability

**Biodegradability** Fatty acids, C8-18, potassium salts: rapidly biodegradable

**Koc** Fatty acids, C8-18, potassium salts: Koc: 5444

### 12.3 Bioaccumulative potential

**Bioaccumulation** Fatty acids, C8-18, potassium salts:



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Does not bioaccumulate.

### 12.4 Mobility in soil

**Mobility in soil** Fatty acids, C8-18, potassium salts: mobile in soil

### 12.5 Results of PBT and vPvB assessment

**PBT and vPvB assessment** Fatty acids, C8-18, potassium salts: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

### 12.6 Endocrine disrupting properties

**Assessment** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

**Additional ecological information** No other effects to be mentioned.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

**Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.

**Contaminated packaging** Triple rinse containers.  
Do not re-use empty containers.  
Not completely emptied packagings should be disposed of as hazardous waste.

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## SECTION 14: TRANSPORT INFORMATION

According to SANS 10231/IMDG/IATA not classified as dangerous goods.

14.1 – 14.5 Not applicable.

### 14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

### 14.7 Transport in bulk according to IMO instruments

No transport in bulk according to the IBC Code.

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## SECTION 15: REGULATORY INFORMATION

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

#### Further information

WHO-classification: III (Slightly hazardous)

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## SECTION 16: OTHER INFORMATION



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### Text of the hazard statements mentioned in Section 3

#### Abbreviations and acronyms

ATE	Acute toxicity estimate
CAS-Nr.	Chemical Abstracts Service number
Conc.	Concentration
ECx	Effective concentration to x %
EN	European Standard
EU	European Union
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %
LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	MARPOL: International Convention for the prevention of marine pollution from ships
N.O.S.	Not otherwise specified
NOEC/NOEL	No observed effect concentration/level
OECD	Organization for Economic Co-operation and Development
SANS	South African National Standard for Transport of dangerous goods by road
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2020/878 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

#### Note :

This data sheet has been generated according to the safety data sheet supplied by the manufacturer of the product.

DE SANGOSSE SAS

**Reason for Revision:** The following sections have been revised: Section 3: Composition / Information on Ingredients. Section 6. Accidental Release Measures. Section 12. Ecological information. Section 16: Other Information.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.