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# Safety Data Sheet

Page 1 of 12

BASF Safety Data Sheet

Date / Revised: 25.08.2023

Product: **RIPCORD®**

Version: 3.0

(Ref: ID no. 30364479/SDS\_CPA\_ID/EN)

## 1. Identification

### Product identifier

**RIPCORD®**

### Recommended uses and restrictions on use (if any)

#### Recommended use:

crop protection product, insecticide.

#### Restricted use:

not applicable

### Manufacturer / Supplier

BASF New Zealand Limited  
5E City Works Depot,  
77 Cook Street  
Auckland 1010  
NEW ZEALAND

Phone: + 64 9 255 4300  
0800 932 273

E-mail address: reception@basf-nz.co.nz

### Emergency telephone number

National Poisons Centre: 0800 764 766

BASF Emergency Advice Number: 0800 944 955 (24 hour advice in an emergency only)

## 2. Hazard Identification

### Classification of the substance or mixture

Flammable liquid	:	Category 3
Acute oral toxicity	:	Category 4
Acute dermal toxicity	:	Category 4
Eye irritation	:	Category 2
Skin irritation	:	Category 2
Skin sensitization	:	Category 1
Reproductive toxicity	:	Category 2
Specific target organ toxicity - repeat exposure	:	Category 1
Aquatic environment – acute	:	Category 1
Aquatic environment - chronic	:	Category 1

Hazardous to terrestrial vertebrates

Hazardous to terrestrial invertebrates

### GHS Label Elements, including Precautionary Statements:

Signal Word:  
 DANGER.

Pictograms:



GHS Hazard Statements

H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H361	:	Suspected of damaging fertility or the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.
H410	:	Very toxic to aquatic life with long lasting effects.
	:	Hazardous to terrestrial vertebrates.
	:	Hazardous to terrestrial invertebrates.

GHS Precautionary Statements (Prevention)

P102	:	Keep out of reach of children.
P103	:	Read label before use.
P201	:	Obtain special instructions before use.
P202	:	Do not handle until all safety precautions have been read and understood.
P210	:	Keep away from flames and hot surfaces. No smoking.
P233	:	Keep container tightly closed.
P240	:	Ground / bond container and receiving equipment.
P241	:	Use explosion-proof electrical / ventilating / lighting equipment.
P242	:	Use only non-sparking tools.
P243	:	Take precautionary measures against static charge.
P260	:	Do not breathe mist, vapours and spray.
P264	:	Wash hands and face thoroughly after handling.
P270	:	Do not eat, drink or smoke when using this product.
P272	:	Contaminated clothing should not be allowed out of the workplace.
P280	:	Wear protective gloves, protective clothing, eye/face protection.
P281	:	Use personal protective equipment as required.

GHS Precautionary Statements (Response)

P101	:	If medical advice is needed, have product container or label at hand.
P301 + P312	:	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
P330	:	Rinse mouth.
P302 + P352	:	IF ON SKIN: Wash with plenty of soap and water.
P312	:	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338:	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	:	IF exposed or concerned: Get medical advice/attention.
P314	:	Get medical advice / attention if you feel unwell.
P321	:	Specific treatment (refer to First Aid Measures).
P322	:	Specific measures (see supplemental first aid instructions on this label).
P332 + P313	:	If skin irritation occurs: Get medical advice/attention.
P333 + P313	:	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	:	If eye irritation persists: Get medical advice/ attention.
P362	:	Take off contaminated clothing and wash before re-use.
P363	:	Wash contaminated clothing before reuse.

GHS Precautionary Statements (Response) continued

P370 + P361 + P353: IF ON SKIN (or hair): Remove / Take off contaminated clothing. Rinse skin with water / shower.

P370 + P378 : In case of fire: Use water spray, carbon dioxide, dry powder or foam to extinguish.

P391 : Collect spillage.

GHS Precautionary Statements (Storage)

P405 : Store locked up

P403 + P235 : Store in a well-ventilated place. Keep cool.

GHS Precautionary Statements (Disposal):

P501 : Dispose of contents/container to hazardous or special waste collection point. Information regarding disposal considerations can be found in section 13.

**According to UN GHS criteria**

Hazard determining component(s) for labelling: Cypermethrin

**Other hazards**

No other hazards known.

See section 12 - Results of PBT and vPvB assessment.

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

**3. Composition/Information on Ingredients****Substances**

Not applicable

**Mixtures**Hazardous ingredients (GHS)

According to UN GHS criteria

## Cypermethrin

Content (W/W):	21.41 %
CAS Number:	52315-07-8

## Xylene

Content (W/W):	<75%
CAS Number:	1330-20-7

## n-butanol

Content (W/W):	<3%
CAS Number:	71-36-3

## Benzenesulfonic acid, C10-13-alkyl derivs., calcium salts

Content (W/W):	<3%
CAS Number:	1335202-81-7

## diacetonealcohol

Content (W/W):	<1%
CAS Number:	123-42-2

## 4. First-Aid Measures

### Description of necessary first aid measures

#### General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

#### If inhaled:

Keep patient calm, remove to fresh air, seek medical attention. Immediately administer a corticosteroid from a controlled / metered dose inhaler.

#### On skin contact:

Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.

#### On contact with eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

#### On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

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

#### Symptoms:

Information on Cypermethrin: numbness and tingling of hands and feet, lung oedema, convulsions.

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

#### Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote. If inhaled, consider using corticosteroid dose aerosol.

#### Medical advice:

Contact the National Poisons and Hazardous Chemicals Information centre.  
Phone 0800 POISON (0800 764 766).

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## 5. Fire-Fighting Measures

### Suitable extinguishing media

Water spray, dry powder, foam, carbon dioxide

### Specific hazards

carbon monoxide, carbon dioxide, hydrogen chloride, nitrogen oxides, sulfur oxides, cyanides, halogenated compounds

The substances/groups of substances mentioned can be released in case of fire.

Vapours may form ignitable mixture with air. Prevent electrostatic charge – sources of ignition should be kept well clear – fire extinguishers should be kept handy.

### Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and chemical-protective clothing.

### Precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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## 6. Accidental Release Measures

### Personal precautions, Protective equipment and Emergency procedures

Do not breathe vapour/spray.  
 Use personal protective clothing.  
 Avoid contact with the skin, eyes and clothing.

### Environmental precautions

Do not discharge into the subsoil/soil.  
 Do not discharge into drains/surface waters/groundwater.

### Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.  
 Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations.

## 7. Handling and Storage

### Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

### Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.  
 Unsuitable materials for containers: high density polyethylene (HDPE)

### Further information on storage conditions:

Store locked up. Keep only in the original container. Keep container tightly closed and dry; store in a cool place. Keep away from heat. Protect from direct sunlight.

Storage stability: 24 months.

Protect from temperatures above 40°C.

Changes in the properties of the product may occur if substance / product is stored above indicated temperature for extended periods of time.

## 8. Exposure Controls/Personal Protection

### Control parameters

#### Occupational exposure limits

Component:	n-butanol
CAS Number:	71-36-3
TWA Value:	20 ppm (source: ACGIHTLV) Skin absorption can be significant
CEILING Value:	50 ppm / 150 mg/m <sup>3</sup> (source: WES 2022) Skin absorption can be significant

Component:	xylene
CAS Number:	1330-20-7
TWA Value:	100 ppm (source: ACGIHTLV)
STEL Value:	150 ppm (source: ACGIHTLV)
TWA Value:	50 ppm / 217 mg/m <sup>3</sup> (source: WES 2022)

### Engineering controls

Maintain air concentrations below occupational exposure standards.

### Personal protective equipment

#### Respiratory protection:

Suitable respiratory protection for lower concentrations or short -term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

#### Hand protection:

Suitable chemical resistant safety gloves (EN 374-1) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

#### Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

#### Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

#### General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

## 9. Physical and Chemical Properties

Form:	Liquid
Colour:	Clear
Odour:	Characteristic of the solvent contained in the product
Odour threshold:	Not determined due to potential health hazard by inhalation
pH value:	Approx. 6 – 8, (20°C) The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.
Melting point:	Approx. -39.5°C Information applies to the solvent.
Boiling range:	137 - 140°C (1.013 hPa) Information applies to the solvent.
Flash point:	26°C
Evaporation rate:	Not applicable
Flammability:	Not applicable
Lower explosion limit:	Approx. 1% (V) (approx. 20°C) Information applies to the solvent
Upper explosion limit:	Approx. 6.7% (V) (approx. 20°C) Information applies to the solvent.
Ignition temperature:	Approx. 488°C Information applies to the solvent.
Thermal decomposition:	No decomposition if stored and handled as prescribed / indicated.
Explosion hazard:	Based on the chemical structure there is no indication of explosive properties.
Fire promoting properties:	Based on its structural properties the product is not classified as oxidizing.
Vapour pressure:	Approx. 821 Pa (25°C) Information applies to the solvent.
Density:	Approx. 0.94 g/cm <sup>3</sup> (20°C)
Relative vapour density (air):	Not applicable

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Solubility in water:	Emulsifiable
Partitioning coefficient n-octanol/water (log Kow):	Not applicable
Viscosity, dynamic:	Approx. 68 mPa.s (25°C) The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.
Viscosity, kinematic:	Approx. 75 mm <sup>2</sup> /s (25°C) The product has not been tested. The statement has been derived from substances / products of a similar structure or composition.

## 10. Stability and Reactivity

### Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

### Chemical stability

The product is stable if stored and handled as prescribed/indicated.

### Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

### Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flame.

### Incompatible materials / Substances to avoid

Strong acids, strong bases, strong oxidizing agents

### Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

## 11. Toxicological Information

### Acute toxicity

#### Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually non-toxic after a single skin contact. Virtually non-toxic by inhalation.

#### Experimental/calculated data:

LD50 rat (oral):	1,049 mg/kg
LC50 rat (by inhalation):	3.28 mg/l 4 h (Cypermethrin)
LD50 rat (dermal):	>2,000 mg/kg No mortality was observed.

### Skin Corrosion / Irritation

#### Assessment of irritating effects:

Skin contact causes irritation. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

#### Experimental/calculated data:

Skin corrosion/irritation rabbit: Irritant

### Serious Eye Damage / Irritation

#### Assessment of irritating effects:

May cause severe damage to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Serious eye damage/irritation rabbit: Risk of serious damage to eyes.

**Respiratory or Skin sensitization**

Assessment of sensitization:

Sensitization after skin contact possible. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Experimental/calculated data:

Guinea pig: caused skin sensitisation in animal studies. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Germ cell mutagenicity**

Assessment of mutagenicity:

Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

**Carcinogenicity**

Assessment of carcinogenicity:

The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

**Reproductive toxicity**

Assessment of reproduction toxicity:

The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

**Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cypermethrin

Assessment of teratogenicity:

No indications of developmental toxicity / teratogenicity were seen in animal studies.

Information on: diacetonealcohol

Assessment of teratogenicity:

Indications of possible developmental toxicity / teratogenicity were seen in animal studies.

**Specific target organ toxicity (single exposure)**

Assessment of STOT single:

Causes temporary irritation of the respiratory tract.

Remarks: The product has not been tested. The statement has been derived from the properties of the individual components.

**Repeated dose toxicity and Specific target organ toxicity (repeated exposure)**

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.



Information on: Xylene

Assessment of repeated dose toxicity:

Repeated exposure may affect certain organs. Damages the central nerve system. The substance can cause changes in the following organs after repeated exposure to large quantities: Liver, Kidney.

**Aspiration hazard**

May also damage the lung at swallowing (aspiration hazard).

**Other relevant toxicity information**

Misuse can be harmful to health.

## 12. Ecological Information

### Ecotoxicity - Aquatic

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Toxicity to fish:

LC50 (96 h): 0.0028 mg ai/l, *Oncorhynchus mykiss*, (Cypermethrin)

NOEC (34 d): 0.000031 mg ai/l, *Pimephales promelas*, (Cypermethrin)

Aquatic invertebrates:

EC50 (48 h): 0.000007 mg ai/l, 6.95 ng/l, *Chironomus riparius*, (Cypermethrin)

NOEC (21 d): 0.0001 mg ai/l, *Daphnia magna* (static), (Cypermethrin)

Aquatic plants:

EC50 (96 h): >0.1 mg ai/l, *Pseudokirchneriella subcapitata* (other), (Cypermethrin)

### Ecotoxicity - Terrestrial

Assessment of terrestrial toxicity:

Hazardous to terrestrial vertebrates. The product has not been tested. The statement has been derived from the active ingredient, Cypermethrin.

Toxicity to birds:

Acute LD50: >10,000 mg ai/kg, Mallard Duck, *Anas platyrhynchos*, Cypermethrin

Dietary LC50 (5 d): >5,620 mg ai/kg feed, *Colinus virginianus*, Cypermethrin

Toxicity to soil organisms:

EC50 (14d): >100 mg ai/kg, *Eisenia fetida*, Cypermethrin

Toxicity to Pollinators:

LD50 (48 hr oral): 0.172 µg ai/bee, *Apis mellifera*, Cypermethrin

LD50 (48 hr contact): 0.023 µg ai/bee, *Apis mellifera*, Cypermethrin

### Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cypermethrin  
Assessment biodegradation and elimination (H<sub>2</sub>O):  
Not readily biodegradable.

#### **Bioaccumulative potential**

Assessment bioaccumulation potential:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cypermethrin  
Bioaccumulation potential:  
Bioconcentration factor: 1,204  
Significant accumulation in organisms is not to be expected.

#### **Mobility in soil**

Assessment transport between environmental compartments:  
The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Cypermethrin  
Assessment transport between environmental compartments:  
Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

#### **Results of PBT and vPvB assessment**

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

#### **Other adverse effects**

Other ecotoxicological advice:  
Do not discharge product into the environment without control.

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## **13. Disposal Considerations**

#### **Container:**

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, [www.agrecovery.co.nz](http://www.agrecovery.co.nz)). Do not use container for any other purpose.

#### **Product:**

Dispose of this product only by using according to the label or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container. Waste product/package may be sent to a suitable incineration plant, observing local regulations.

#### **Contaminated Packaging:**

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance / product.

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## 14. Transport Information

### Commercial transport:

Classified as dangerous good(s) for Land/rail (ADR/RID), sea (IMDG) and air transport (ICAO/IATA):

### Land / Rail / Road (ADR/RID):

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains xylene, Cypermethrin)
Transport hazard class(es) / UN DG Class:	3, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
Marine pollutant:	Yes
HAZCHEM:	3Y
IERG:	14
Special precautions when transporting the substance:	None known

### Sea transport (IMDG):

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains xylene, Cypermethrin)
Transport hazard class(es):	3, (EHSM)
Packing group:	III
Environmental hazards:	Marine pollutant
Marine pollutant:	Yes
Special precautions when transporting the substance:	EmS: F-E; <u>S-E</u>

### Air transport (IATA / ICAO):

UN number:	UN 1993
UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (contains xylene, Cypermethrin)
Transport hazard class(es):	3, (EHSM)
Packing group:	III
Environmental hazards:	No mark as dangerous for the environment is needed.
Special precautions when transporting the substance:	None known

## 15. Regulatory Information

### HSNO Approval Number

HSR000257.

See [www.epa.govt.nz](http://www.epa.govt.nz) for approval conditions.

### Tolerable Exposure Limit or Environmental Exposure Limit

TEL:	None set
EEL:	None set

### Relevant Regulatory Requirements

Qualifications:	Required. Refer to label.
Certified Handler:	Not required
Tracking:	Not required
Record Keeping:	Required. Refer to label.
Controlled substance licence:	Not required

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**ACVM Registration**

P002810 and A005671

See [www.foodsafety.govt.nz/acvm](http://www.foodsafety.govt.nz/acvm) for registration conditions.**International Agreements related to the substance such as Montreal Protocol, the Stockholm Convention or Rotterdam Convention**

not applicable

**16. Other Information****Date of preparation of the SDS**

25 August 2023

**Key or legend to abbreviations and acronyms used**

ACGIH	The American Conference of Governmental Industrial Hygienists
ACVM	Agricultural Compounds and Veterinary Medicines
ADN	International Carriage of Dangerous Goods by Inland Waterways (EU)
ADR/RID	Dangerous Goods for Road / Rail
DG	Dangerous Goods
EC50	Median effective concentration
EEL	Environmental Exposure Limit
EHSM	Environmental Health and Safety Management
EPA	Environmental Protection Authority
EU	European Union
GHS	Globally Harmonised System
ICAO	International Civil Aviation Organisation
IATA	International Air Transport Association
IERG	International Emergency Response Guide
IMDG	International Maritime Dangerous Goods
LD50	Lethal concentration to 50% of the test population
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OEL	Operator Exposure Limits
PBT or vPvP	Persistent / Bioaccumulative / Toxic or very Persistent/very Bioaccumulative
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TDG	Transportation of Dangerous Goods
TEL	Tolerable Exposure Limit
TLVs	Threshold Limit Values
UN GHS	United Nations Globally Harmonised System
WES	Workplace Exposure Standards
49CFR	Code of Federal Regulations Title 49 for Transportation

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.