



# SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

## Cormoran 180 EC

Revision date 03-Aug-2022

Version 4 Supersedes Date: 01-May-2022

Product Code(s) INS00118-27

Print Date 03-Aug-2022

ADM.0154.I.1.A 9503143

## 1. Identification

### Product identifier

## Cormoran 180 EC

### Other means of identification

Synonyms Novaluron 100 Acetamiprid 80 EC  
Formula EC  
Registration Number(s) L9480  
Pure substance/mixture Mixture

### Recommended use of the chemical and restrictions on use

Recommended use Insecticide, Professional use  
Uses advised against No information available

### Detailed information about the manufacturer, supplier, and/or importer

Supplier ADAMA SOUTH AFRICA (PTY) LTD  
Ground Floor, Simeka House  
The Vineyards Office Estate  
99 Jip de Jager Drive  
Bellville 7530

### Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)  
+27 86 155 5777 (Tygerberg Poison Information Centre)  
+27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

## 2. Hazard(s) identification

### Classification of the substance or mixture

Acute toxicity - Oral	Category 4 - (H302)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Reproductive toxicity	Category 1B - (H360)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

**Label elements****Signal word**

Danger

**Hazard pictograms****Hazard statements**

H302 - Harmful if swallowed  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation  
 H360 - May damage fertility or the unborn child  
 H410 - Very toxic to aquatic life with long lasting effects

**Precautionary statements**

P102 - Keep out of reach of children  
 P203 - Obtain, read and follow all safety instructions before reuse  
 P264+P265 - Wash face, hands and any exposed skin thoroughly after handling. Do not touch eyes  
 P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
 P270 - Do not eat, drink or smoke when using this product  
 P271 - Use only outdoors or in a well-ventilated area  
 P272 - Contaminated work clothing should not be allowed out of the workplace  
 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  
 P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 P305+P354\_P388 - IF IN EYE: Immediately rinse with water for several minutes. Remove contact lenses if present, and easy to do  
 P318 - If exposed or concerned get medical advice.  
 P319 - Get medical help if you feel unwell  
 P330 - Rinse mouth  
 P333 + P317 - If skin irritation or rash occurs, get medical help  
 P362+364 - Take off contaminated clothing and wash it before reuse  
 P391 - Collect spillage  
 P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
 P405 - Store locked up  
 P501 - Dispose of contents/ container to an approved waste disposal plant

**Additional information**

This product is classified as hazardous according to the criteria in South Africa - GHS classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous Chemical Agents - 2021.

**Other hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 3. Composition/information on ingredients

**Substance**

Not applicable

### Mixture

### Synonyms

Novaluron 100 Acetamiprid 80 EC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
N-Methyl-2-pyrrolidone	872-50-4	34-38	212-828-1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Repr. 1B (H360) STOT SE 3 (H335)	
Poly(oxy-1,2-ethanediyl),.alpha.-(C10-14)alkyl-.omega.-hydroxy, phosphate	68585-36-4	11-13		Skin Corr. 1B (H314)	
Novaluron	116714-46-6	7-11		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	M=1 M=1000
Acetamiprid	135410-20-7	6-9	603-921-1	Acute Tox. 4 (H302) Aquatic Chronic 3 (H412)	
Triethanolamine	102-71-6	1-3	203-049-8	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT RE 2 (H373)	

Full text of H- and EUH-phrases: see section 16

### Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Cormoran 180 EC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021. Regulation 14(b), not listed in the table above.

## 4. First-aid measures

### Description of necessary first aid measures

#### General advice

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider: Pay attention to self-protection.

#### Inhalation

Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

#### Eye contact

Get immediate medical advice/attention. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

#### Ingestion

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately.

### For emergency responders

#### Self-protection of the first aider

Use personal protective equipment as required.

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

#### Symptoms

None known.

### Indication of immediate medical attention and special treatment needed, if necessary

---

**Note to physicians** Treat symptomatically.

## 5. Fire-fighting measures

### Suitable Extinguishing Media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### Specific hazards arising from the chemical

**Specific hazards arising from the chemical** Product is or contains a sensitizer. May cause sensitization by skin contact.

### Specific/special fire-fighting measures

**Specific/special fire-fighting measures** No information available.

### Special protective equipment and precautions for fire-fighters

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Other information** Refer to protective measures listed in Sections 7 and 8.

## 7. Handling and storage

### Preventive measures for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

Avoid breathing vapors or mists.

### Precautions for safe handling

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

## 8. Exposure controls/personal protection

### Control parameters

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

Chemical name	ACGIH TLV
Triethanolamine 102-71-6	TWA: 5 mg/m <sup>3</sup>

**Other information** South Africa OEL eight-hour TWA - Triethanolamine, CAS. 102-71-6 : 10 mg/m<sup>3</sup>

### Appropriate engineering controls

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

### Individual protection measures, such as personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact (recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm).

**Eye/face protection** Tight sealing safety goggles.

**Skin and body protection** Use suitable protective clothing and equipment if required, such as safety goggles certified to EN 166, gloves certified to EN 374, protective boots certified to EN 13832, and/or a water repellent woven coverall with 65% polyester and 35 % cotton.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Local authorities should be advised if significant spillages cannot be contained.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
<b>Appearance</b>			
Physical state	: Liquid		
Color	: brown		
Odor	: characteristic		
Odor threshold	: No data available		

<b>pH</b>	: 2.3 - 3.3	EPA-OPPTS 830.7000	1 % aqueous solution
<b>Melting point / freezing point °C</b>	: -		Not applicable
<b>Boiling point / boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: 110	CIPAC MT 12	CC (closed cup)
<b>Evaporation rate</b>	: No data available		
<b>Flammability (solid, gas)</b>	: Not applicable		
<b>Upper/lower flammability or explosive limits</b>	: No data available		
<b>Vapor pressure kPa</b>	: -		Not applicable
<b>Vapor density</b>	: No data available		
<b>Relative density</b>	: 1.05 - 1.15	EPA-OPPTS 830.7300	221 °C
<b>Solubility(ies) mg/l</b>	: -		Not applicable
<b>Partition coefficient Log Pow</b>	:		See Section 12 for additional Ecological Information
<b>Autoignition temperature °C</b>	: No data available		
<b>Decomposition temperature °C</b>	: No data available		
<b>Kinematic viscosity mm<sup>2</sup>/s 40 °C</b>	: -		No data available
<b>Explosive properties</b>	: Not an explosive	EEC A.14	
<b>Oxidizing properties</b>	: No data available		
<b>Surface tension</b>	: -		No data available
<b>Particle Size</b>	: Not applicable		
 <b>Other information</b>			
<b>Bulk density g/ml</b>	: Not applicable		

## 10. Stability and reactivity

### Reactivity

**Reactivity** No information available.

### Chemical stability

**Stability** Stable under normal conditions.

### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### Conditions to avoid

**Conditions to avoid** None known based on information supplied.

### Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: 300 - 2000	Rat	OECD 423	Maximum attainable concentration
Dermal LD50 mg/kg	: > 2000	Rat	OECD 402	
Inhalation LC50 LC50	: 1.61	Rat	OECD 403	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	OECD 404	
Serious eye damage/eye irritation	: Risk of serious damage to eyes	Rabbit	OECD 405	
Sensitization	: Skin sensitizer	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity****Chemical name**

Novaluron	: Not classified
Acetamidrid	: Not classified

**Carcinogenicity****Chemical name**

Novaluron	: Not Carcinogenic
Acetamidrid	: Not Carcinogenic

**Reproductive toxicity****Chemical name**

Novaluron	: Not toxic for the reproductive system
Acetamidrid	: Not toxic for the reproductive system

**STOT - Single Exposure****Chemical name**

Novaluron	: No data available
Acetamidrid	: No data available

**STOT - Repeated Exposure****Chemical name**

Novaluron	: No data available
Acetamidrid	: No data available

**Aspiration hazard****Chemical name**

Novaluron	: No data available
Acetamidrid	: No data available

**12. Ecological information****Ecotoxicity****Aquatic toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Acute toxicity				
Fish 96-hour LC50 mg/l	: 1.06	Poecilia reticulata	OECD 203	
Crustacea 48-hour EC50 mg/l	: 0.04	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: > 100	Selenastrum capricornutum	OECD 201	
Other plants EC50 mg/l	: No data available			No data available
Chronic aquatic toxicity	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>

Fish NOEC mg/l : No data available  
 Crustacea NOEC mg/l : No data available  
 Algae NOEC mg/l : No data available  
 Other plants NOEC mg/l : No data available

**Terrestrial Toxicity****Birds Oral LD50 mg/kg****Chemical name**

Novaluron : > 2000 Bobwhite quail US EPA 71-1  
 Acetamiprid : 98 Mallard duck

**Bees Oral LD50 µg/bee****Chemical name**

Novaluron : > 100 Apis mellifera EPPO 170  
 Acetamiprid : 14.53 Oral

**Abiotic Degradation****Water DT50 days****Chemical name**

Novaluron : ---- No data available  
 Acetamiprid : 3.6 - 5.8

**Soil DT50 days****Chemical name**

Novaluron : ---- No data available  
 Acetamiprid : 2.9 Field

**Biodegradation****Chemical name**

Novaluron : No data available  
 Acetamiprid : No data available

**Log Pow****Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Novaluron	: 4.3	OECD 107	
Acetamiprid	: 0.80	OECD 117	

**Bioconcentration factor (BCF)****Chemical name**

Novaluron : ---- No data available  
 Acetamiprid : ---- No bioaccumulation potential

**Adsorption/Desorption****Chemical name**

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Novaluron	: 9598		KOC
Acetamiprid	: 71.1 - 138.4		KOC

**13. Disposal considerations****Disposal methods**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**14. Transport information**



**ADR**

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 601, 375
Classification code	M6

**RID**

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 375, 601
Classification code	M6

**IMDG**

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)
14.3 Hazard Class	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron), 9, III, Marine pollutant
14.5 Marine pollutant	P
Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	274, 335, 969
EmS-No	F-A, S-F
IMDG Stowage and segregation	Category A
14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

**IATA**

14.1 UN number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Novaluron), 9, III
14.5 Environmental hazard	Yes
14.6 Special Precautions for Users	
Special Provisions	A97, A158, A197
ERG Code	9L



\* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

## 15. Regulatory information

### Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

## 16. Other information

### **Full text of H-Statements referred to under section 3**

H302 - Harmful if swallowed  
 H314 - Causes severe skin burns and eye damage  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H335 - May cause respiratory irritation  
 H360 - May damage fertility or the unborn child  
 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  
 H412 - Harmful to aquatic life with long lasting effects

**Date of preparation of the SDS** No data available  
**Revision date** 03-Aug-2022  
**Revision Note** Changes made to the last version are labeled with this sign \*\*\*.

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

IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

### **Abbreviations and acronyms**

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 CAS Number - Chemical Abstracts Service number  
 EC Number - EINECS and ELINCS Number  
 EINECS - European Inventory of Existing Commercial Substances  
 ELINCS - European List of notified Chemical Substances

---

IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
OECD - Organization for Economic Co-operation and Development  
PBT - Persistent, Bioaccumulative and Toxic substance  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
STOT - Specific Target Organ Toxicity  
vPvB - Very Persistent and Very Bioaccumulative

### **The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)**

#### **Classification of the mixture**

H302 - Harmful if swallowed  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H360 - May damage fertility or the unborn child  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### **Classification procedure**

Classification based on test data  
Classification based on test data  
Classification based on test data  
Classification based on Calculation method  
Classification based on Calculation method  
Classification based on test data  
Classification based on Calculation method

#### **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**

**End of Safety Data Sheet**