

Page 1/9

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: WARLOCK 450 WG
- · UFI: A1Y2-W0M2-600J-54YS
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Fungicide
- Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

Cropthetics Ltd

Third Floor, 126-134 Baker Street, London

W1U 6UE, UK

info@jtagro-cropthetics.com

Tel: +44 1628 272102, for all calls, 9am - 5pm GMT

- · Further information obtainable from: product safety department
- Emergency telephone number:

Posion center of the Charité Berlin: +49 30 19240

E-Mail: giftnotruf@charite.de

### 2 Hazards identification

- · Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Repr. 2 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

STOT RE 2 H373 May cause damage to the thymus and the blood through prolonged or repeated

exposure.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

(Contd. on page 2)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

(Contd. of page 1)

· Hazard pictograms





GHS07 GHS08 GH

- · Signal word Warning
- · Hazard-determining components of labelling:

Cymoxanil

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts

Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to the thymus and the blood through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

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

protection.

P302+P352 IF ON SKIN: Wash with plenty of water/mydło

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.vPvB: Not applicable.

### 3 Composition/information on ingredients

· Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 57966-95-7 EINECS: 261-043-0	Cymoxanil  Repr. 2, H361fd; STOT RE 2, H373; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Sens. 1, H317	25-50%
	Mixture of potassium polycarboxylate and ammonium distyryl-phenyl ether sulphate  Eye Irrit. 2, H319; Aquatic Chronic 3, H412	≥10-<25%
CAS: 85586-07-8 EINECS: 287-809-4 Reg.nr.: 01-2119489463-28-XXXX	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts  Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412  ATE: LD50 oral: 500 mg/kg	≥3-<10%
CAS: 110-17-8 EINECS: 203-743-0	Fumaric acid  © Eye Irrit. 2, H319	≥2.5-<10%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

- Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

(Contd. on page 3)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2)

Trade name: WARLOCK 450 WG

(Contd. of page 2)

Revision: 31.01.2024

#### · After inhalation:

Take affected persons into fresh air and keep quiet.

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Remove soaked clothing immediately.

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

#### · After eye contact:

Remove contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor: No antidote, symptomatic treatment.
- · Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### 5 Firefighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

· Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

- Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Storage class (TRGS): 11
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

(Contd. on page 4)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

· Additional information: The lists valid during the making were used as basis.

(Contd. of page 3)

- · Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection



#### Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Not determined.

· Eye/face protection



Tightly sealed goggles

### 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

Physical state
Colour:
Odour:
Odour threshold:

Solid
Beige
Characteristic
Not determine

Odour threshold:
 Melting point/freezing point:
 Boiling point or initial boiling point and boiling range Undetermined.

Flammability

· Lower and upper explosion limit

Lower: Not determined.
Upper: Not determined.
Flash point: Not applicable.
Auto-ignition temperature: >267 °C
Decomposition temperature: Not determined.

Decomposition temperature: Not determined.
 pH at 20 °C 5.41 (1%)

· Viscosity:

*Kinematic viscosityDynamic:*Not applicable.Not applicable.

· Solubility

· water: Soluble.

· Partition coefficient n-octanol/water (log value) Not determined.

(Contd. on page 5)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

(Contd. of page 4)

Vapour pressure: Not applicable.
Density and/or relative density
Density at 20 °C: 0.88 g/cm³

Relative density
 Density (@15°C)
 Vapour density
 Not determined.
 Not applicable.

· Particle characteristics

See section 3.

· Other information

· Appearance:

Form: Granulate

Important information on protection of health and environment, and on safety.

· Ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

· Solvent content:

· *Water:* 30.0 %

· Change in condition

· Evaporation rate Not applicable.

# Information with regard to physical hazard

Classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable	
gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void

Oxidising liquids
 Oxidising solids
 Organic peroxides
 Corrosive to metals
 Desensitised explosives

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.

(Contd. on page 6)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2)

Trade name: WARLOCK 450 WG

(Contd. of page 5)

Revision: 31.01.2024

· LD/L	C50 va	ues relevant for classification:
Oral	LD5	0 >2,000 mg/kg (rat)
Dern	nal LD5	0 >2,000 mg/kg (rat)

57966-9	57966-95-7 Cymoxanil		
Oral	LD50	960 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
110-17-	110-17-8 Fumaric acid		
Oral	LD50	9,300 mg/kg (rat)	
Dermal	LD50	20,000 mg/kg (rabbit)	

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Causes serious eye irritation.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Suspected of damaging fertility. Suspected of damaging the unborn child.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure

May cause damage to the thymus and the blood through prolonged or repeated exposure.

- · Aspiration hazard Based on available data, the classification criteria are not met.
- Information on other hazards

Endocrine disrupting properties	
None of the ingredients is listed.	

### 12 Ecological information

· Toxicity

· Aquatic toxicit	y:
57966-95-7 Cyı	noxanil
Inhalative LD50	) >5 mg/kg (rat)

- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- · Other adverse effects No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

### 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue			
HP4	HP4 Irritant - skin irritation and eye damage		
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity		

(Contd. on page 7)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

	(Contd. of page 6)
HP6	Acute Toxicity
HP10	Toxic for reproduction
HP13	Sensitising
HP14	Ecotoxic

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
   Recommended cleansing agents: Water, if necessary together with cleansing agents.

## \*14 Transport information

. IIN number or ID number	
· UN number or ID number · <i>ADR, IMDG, IATA</i>	UN3077
* *	
· UN proper shipping name · <i>ADR</i>	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
APA	SOLID, N.O.S. (Cymoxanil)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	SOLID, N.O.S. (Cymoxanil), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
	SOLID, N.O.S. (Cymoxanil)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles.
· Packing group	
· ADR, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
· Hazard identification number (Kemler code):	90
· EMS Number:	F-A,S-F
· Stowage Category	A
· Stowage Code	SW23 When transported in BK3 bulk container, see
	7.6.2.12 and 7.7.3.9.
· Maritime transport in bulk according to IM	
instruments	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5 kg
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
. Transport category	Maximum net quantity per outer packaging: 1000 g
· Transport category · Tunnel restriction code	3 (-)
rannon restriction code	
	(Contd. on page 8)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

(Contd. of page 7)

· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CYMOXANIL), 9, III

### 15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the substance or mixture: (Substances not listed)

None of the ingredients is listed.

- Directive 2004/42/EC
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- · REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

### 16 Other information

#### · Disclaimer

This safety data sheet contains only safety relevant information. The information is based on the state of our knowledge at the time of revision, however, it does not constitute a guarantee of product properties, product information or product specifications and does not establish a contractual legal relationship. This document is only valid in its unchanged form. In the event of changes by third parties, the exhibitor accepts no responsibility for form and content or for any damages or claims arising from such changes. The information is not transferable to other products. If the product named in this safety data sheet is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise. The data sheet does not release the user from the obligation to ensure that he acts in accordance with all regulations in connection with his activity.

- · Relevant phrases
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H361fd Suspected of damaging fertility. Suspected of damaging 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.

(Contd. on page 9)

Printing date 31.01.2024 Version number 1.3 (replaces version 1.2) Revision: 31.01.2024

Trade name: WARLOCK 450 WG

(Contd. of page 8)

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Product Safety Department

· Contact: MSDS authorized Person

· Version number of previous version: 1.2

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard — Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard — Category 3

\* Data compared to the previous version altered.