

According to Commission Regulation (EU) 2020/878 of amending Regulation (EC) No 1907/2006



Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

For leak, fire, spill or accident emergencies, call:  
Company emergency number - BIG (24 hours):  
+32 14 58 45 45

Medical emergency:  
Poison centers in France:  
Paris: 01.40.05.48.48  
Lyon: 04.72.11.69.11  
Marseille: 04.91.75.25.25  
Lille: 0800 59 59 59  
ORFILA: +33 (0) 1 45 42 59 59 (poison control center)  
Company: 04.37.23.65.70, accessible from 8:30 am to 6:00 pm, Monday to Friday

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3	H301: Toxic if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H332 Harmful if inhaled.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**

P260 Do not breathe mist or vapours.  
P273 Avoid release to the environment.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

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

### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P391 Collect spillage.

### Hazardous components which must be listed on the label:

malathion (ISO) [containing  $\leq 0,03$  % isomalathion]

Solvent naphtha (petroleum), heavy arom.

Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates

maleic anhydride

GAMMA-CYHALOTHRIN

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
malathion (ISO) [containing $\leq 0,03$	121-75-5	Acute Tox. 4; H302	$\geq 50$ - $< 70$

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version 1.1      Revision Date: 08.11.2022      SDS Number: 50001281      Date of last issue: 12.09.2022  
Date of first issue: 12.09.2022

% isomalathion]	204-497-7 015-041-00-X	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1.000 M-Factor (Chronic aquatic toxicity): 1.000	
Solvent naphtha (petroleum), heavy arom.	64742-94-5 265-198-5 649-424-00-3	Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - < 20
Poly(oxy-1,2-ethanediyl), .alpha.- hydro-.omega.-hydroxy-, mono- C8-10-alkyl ethers, phosphates	68130-47-2	Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 5 - < 10
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31- 0132	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Inhalation, Respira- tory system)  specific concentration limit Skin Sens. 1A; H317 >= 0,001 %	>= 3 - < 5
GAMMA-CYHALOTHRIN	76703-62-3	Acute Tox. 3; H301 Acute Tox. 1; H330 Acute Tox. 4; H312 Skin Sens. 1; H317 STOT RE 1; H372 (Nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1.000.000 M-Factor (Chronic aquatic toxicity): 10.000	>= 1 - < 2,5

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

			Acute toxicity estimate  Acute oral toxicity: 50,01 mg/kg Acute inhalation toxicity (dust/mist): 0,028 mg/l  Acute dermal toxicity: 1.650 mg/kg
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For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- |                         |   |
|-------------------------|---|
| General advice          | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Symptoms of poisoning may appear several hours later.<br>Do not leave the victim unattended.   |
| If inhaled              | : Call a physician or poison control centre immediately.<br>If unconscious, place in recovery position and seek medical advice.   |
| In case of skin contact | : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.  |
| In case of eye contact  | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital.  |

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

---

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

Risks : Toxic if swallowed.  
May be fatal if swallowed and enters airways.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Harmful if inhaled.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause damage to organs through prolonged or repeated exposure.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Thermal decomposition can lead to release of irritating gases and vapours.  
Oxides of phosphorus  
Carbon oxides  
Sulphur oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Fluorinated compounds  
Halogenated compounds

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Possible need to alert the neighbourhood.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
To avoid spills during handling keep bottle on a metal tray.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Avoid contact with skin, eyes and clothing. When using do not

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending Regulation (EC) No 1907/2006



## SANCTUM

Version 1.1      Revision Date: 08.11.2022      SDS Number: 50001281      Date of last issue: 12.09.2022  
Date of first issue: 12.09.2022

eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

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

Requirements for storage areas and containers : Prevent unauthorized access. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Advice on common storage : Do not store near acids.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : The product is an approved pesticide and can only be used for the purposes for which it is approved, according to the conditions contained in the label approved by the competent authorities.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
malathion (ISO) [containing ≤ 0,03 % isomalathion]	121-75-5	VME	10 mg/m <sup>3</sup>	FR VLE
Further information	Risk of penetration through skin, Indicative exposure limits			
maleic anhydride	108-31-6	VLCT (VLE)	1 mg/m <sup>3</sup>	FR VLE
Further information	Risk for sensitisation, Indicative exposure limits			

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
maleic anhydride	Workers	Inhalation	Long-term systemic effects	0,190 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	0,800 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,320 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,200 mg/kg bw/day
	Workers	Dermal	Acute systemic effects	0,200 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic	0,050 mg/m <sup>3</sup>



# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version 1.1      Revision Date: 08.11.2022      SDS Number: 50001281      Date of last issue: 12.09.2022  
Date of first issue: 12.09.2022

			effects	
	Consumers	Inhalation	Long-term local effects	0,080 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0,100 mg/kg bw/day
	Consumers	Dermal	Acute systemic effects	0,100 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,060 mg/kg bw/day
	Consumers	Oral	Acute systemic effects	0,100 mg/kg bw/day

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
malathion (ISO) [containing ≤ 0,03 % isomalathion]	Fresh water	1,2
maleic anhydride	Fresh water	0,075 - 0,100 mg/l
	Marine water	0,0075 - 0,010 mg/l
	Intermittent use (freshwater)	0,4281 - 0,750 mg/l
	Sewage treatment plant	4,46 - 44,6 mg/l
	Fresh water sediment	0,060 - 0,334 mg/kg
	Marine sediment	0,006 - 0,0334 mg/kg
	Soil	0,010 - 0,0415 mg/kg
	Oral	6,67 mg/kg

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles  
Wear face-shield and protective suit for abnormal processing problems.

### Hand protection

Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

### Skin and body protection

: Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

### Respiratory protection

: No personal respiratory protective equipment normally required.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Protective measures : Plan first aid action before beginning work with this product.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: yellow
Odour	: aromatic
Odour Threshold	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Flash point	: 130 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
pH	: 2,49 (1% solution in water)
Viscosity	
Viscosity, dynamic	: 48 mPa,s (20 °C) 18 mPa,s (40 °C)
Viscosity, kinematic	: No data available
Solubility(ies)	
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: No data available

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

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Vapour pressure	:	No data available
Relative density	:	1,178 (20 °C)
Density	:	1,18 g/cm <sup>3</sup>
Relative vapour density	:	No data available
Particle characteristics		
Particle size	:	No data available
Particle Size Distribution	:	No data available
Shape	:	No data available

### 9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	:	No decomposition if stored and applied as directed.
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### 10.4 Conditions to avoid

Conditions to avoid	:	No data available
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### 10.5 Incompatible materials

Materials to avoid	:	Not applicable
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### 10.6 Hazardous decomposition products

See subsection 5.2.

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## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Toxic if swallowed.  
Harmful if inhaled.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

### Product:

Acute oral toxicity	: LD50 Oral (Rat): 55 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	: Acute toxicity estimate: 2,57 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation method
Acute dermal toxicity	: LD50 Dermal (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402

### Components:

#### **malathion (ISO) [containing $\leq 0,03$ % isomalathion]:**

Acute oral toxicity	: LD50 (Rat): 1.857 mg/kg Method: OECD Test Guideline 401 Assessment: The component/mixture is moderately toxic after single ingestion. Remarks: Based on data from similar materials  LD50 (Rat): > 5.000 mg/kg Method: FIFRA 81.01
Acute inhalation toxicity	: LC50 (Rat): > 5,02 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: EPA OPP 81 - 3 Assessment: The component/mixture is minimally toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rabbit): > 5.000 mg/kg Method: FIFRA 81.02 Assessment: The substance or mixture has no acute dermal toxicity

#### **Solvent naphtha (petroleum), heavy arom.:**

Acute oral toxicity	: LD50 (Rat, male and female): > 5.000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials
Acute inhalation toxicity	: LC50 (Rat): > 4,688 mg/l Exposure time: 4 h Test atmosphere: vapour Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

### maleic anhydride:

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg

### GAMMA-CYHALOTHRIN:

Acute oral toxicity : LD50 (Rat, female): 55 mg/kg  
Method: OECD Test Guideline 401

LD50 (Rat, male): > 50 mg/kg  
Method: OECD Test Guideline 401

Acute toxicity estimate: 50,01 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat, female): 0,028 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute toxicity estimate: 0,028 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : LD50 (Rat, female): 1.650 mg/kg  
Method: OECD Test Guideline 402

Acute toxicity estimate: 1.650 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

Not classified based on available information.

### Product:

Method : OECD Test Guideline 404  
Result : Moderate skin irritation

### Components:

#### malathion (ISO) [containing ≤ 0,03 % isomalathion]:

Method : FIFRA 81.05  
Result : slight irritation

#### Solvent naphtha (petroleum), heavy arom.:

Species : Rabbit  
Assessment : Repeated exposure may cause skin dryness or cracking.  
Result : No skin irritation  
Remarks : Minimal effects that do not meet the threshold for classification.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Based on data from similar materials

### **Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates:**

Method	: in vitro skin corrosion test
Result	: Corrosive after 3 minutes to 1 hour of exposure

### **maleic anhydride:**

Species	: Rabbit
Exposure time	: 4 h
Result	: Corrosive after 3 minutes to 1 hour of exposure

### **GAMMA-CYHALOTHRIN:**

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Result	: slight or no skin irritation.

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Product:**

Method	: OECD Test Guideline 405
Result	: Severe eye irritation

Remarks	: May cause irreversible eye damage.
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### **Components:**

#### **malathion (ISO) [containing $\leq 0,03$ % isomalathion]:**

Method	: FIFRA 81.04
Result	: slight irritation

#### **Solvent naphtha (petroleum), heavy arom.:**

Species	: Rabbit
Assessment	: No eye irritation
Remarks	: Minimal effects that do not meet the threshold for classification.

Based on data from similar materials

### **Poly(oxy-1,2-ethanediyl), .alpha.-hydro-.omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates:**

Result	: Irreversible effects on the eye
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### **maleic anhydride:**

Species	: Rabbit
Result	: Irreversible effects on the eye

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

---

### **GAMMA-CYHALOTHRIN:**

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Result	:	Slight or no eye irritation
Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Product:**

Result	:	Causes skin sensitization.
Remarks	:	Causes sensitisation.
Remarks	:	Causes sensitisation.

#### **Components:**

##### **malathion (ISO) [containing $\leq 0,03$ % isomalathion]:**

Test Type	:	Buehler Test
Method	:	FIFRA 81.06
Result	:	Does not cause skin sensitisation.
Test Type	:	Local lymph node assay (LLNA)
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitisation.
Test Type	:	Magnussen-Kligman test
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.
Remarks	:	Based on data from similar materials

##### **Solvent naphtha (petroleum), heavy arom.:**

Test Type	:	Maximisation Test
Species	:	Guinea pig
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

##### **maleic anhydride:**

Test Type	:	Local lymph node assay (LLNA)
Exposure routes	:	Dermal
Species	:	Mouse
Method	:	OECD Test Guideline 429

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Result	:	May cause sensitisation by skin contact.
Exposure routes	:	Inhalation
Species	:	Rat
Result	:	May cause sensitisation by inhalation.

### GAMMA-CYHALOTHRIN:

Assessment	:	May cause sensitisation by skin contact.
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### malathion (ISO) [containing ≤ 0,03 % isomalathion]:

Genotoxicity in vitro	:	Test Type: Ames test Result: negative  Test Type: In vitro mammalian cell gene mutation test Result: positive Remarks: Based on data from similar materials  Test Type: unscheduled DNA synthesis assay Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: chromosome aberration assay Species: Rat Result: negative Remarks: Based on data from similar materials  Test Type: unscheduled DNA synthesis assay Species: Rat Result: negative Remarks: Based on data from similar materials

#### Solvent naphtha (petroleum), heavy arom.:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative Remarks: Based on data from similar materials
Genotoxicity in vivo	:	Test Type: Bone marrow chromosome aberration Species: Rat Application Route: inhalation (vapour) Result: negative

#### maleic anhydride:



# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration  
Species: Rat (male and female)  
Application Route: Inhalation  
Method: OECD Test Guideline 475  
Result: negative

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### GAMMA-CYHALOTHRIN:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

### Carcinogenicity

Not classified based on available information.

### Components:

#### malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Species : Rat  
Application Route : Ingestion  
Exposure time : 24 month(s)  
NOAEL : 6.000 ppm  
Result : positive

Remarks : Probably carcinogenic to humans (IARC 2A)

#### Solvent naphtha (petroleum), heavy arom.:

Species : Rat, male and female  
Application Route : inhalation (vapour)  
Exposure time : 12 month(s)  
NOAEC : 1,8 mg/l  
Result : negative  
Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### maleic anhydride:

Species : Rat, male and female  
Application Route : Oral

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Exposure time	: 2 Years
Dose	: 0, 10, 32, 100 mg/kg body weight
NOEL	: 10 mg/kg body weight
Method	: OECD Test Guideline 451
Result	: negative

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
------------------------------	--

### **GAMMA-CYHALOTHRIN:**

Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects., Based on data from similar materials
------------------------------	---

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **malathion (ISO) [containing ≤ 0,03 % isomalathion]:**

Effects on fertility	: Test Type: Two-generation study Species: Rat, male and female General Toxicity F1: NOAEL: 132 - 152 mg/kg bw/day Symptoms: Reduced offspring weight gain
----------------------	---

Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat General Toxicity Maternal: NOAEL: 400 mg/kg bw/day Teratogenicity: NOAEL: 800 mg/kg bw/day Result: No teratogenic effects
-------------------------------	---

	: Test Type: Embryo-foetal development Species: Rabbit General Toxicity Maternal: NOAEL: 25 mg/kg bw/day Teratogenicity: NOAEL: 25 mg/kg bw/day Result: No teratogenic effects
--	--

Reproductive toxicity - Assessment	: Animal testing showed no reproductive toxicity.
------------------------------------	---

### **maleic anhydride:**

Effects on fertility	: Test Type: Two-generation study Species: Rat, male and female Application Route: Oral Dose: 0, 20, 55, and 150 milligram per kilogram General Toxicity - Parent: LOAEL: 20 mg/kg body weight Fertility: NOEL: 55 mg/kg body weight Method: OECD Test Guideline 416 Result: negative
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Effects on foetal development	: Species: Rat Application Route: Oral
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# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

---

Duration of Single Treatment: 15 d  
General Toxicity Maternal: NOAEL:  $\geq$  140 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  140 mg/kg body weight  
Embryo-foetal toxicity: NOAEL:  $\geq$  140 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### GAMMA-CYHALOTHRIN:

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

### STOT - single exposure

Not classified based on available information.

#### Components:

### GAMMA-CYHALOTHRIN:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Components:

### maleic anhydride:

Exposure routes : inhalation (dust/mist/fume)  
Target Organs : Respiratory system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### GAMMA-CYHALOTHRIN:

Target Organs : Nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

### Repeated dose toxicity

#### Components:

### malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Species : Rat  
LOAEL : 34,4 mg/kg  
Application Route : Oral - feed  
Exposure time : 90 d  
Target Organs : Nervous system  
Symptoms : cholinesterase inhibition

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

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### **Solvent naphtha (petroleum), heavy arom.:**

Species	: Rat, male and female
NOAEC	: 0,9 - 1,8 mg/l
Application Route	: inhalation (vapour)
Exposure time	: 12 months

### **maleic anhydride:**

Species	: Dog, male and female
NOAEL	: 60 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Dose	: 0, 20, 40, or 60 mg/kg bw/day
Method	: OECD Test Guideline 409

Species	: Rat, male and female
NOEL	: 10 mg/kg
Application Route	: Oral
Exposure time	: 2 years
Dose	: 0, 10, 32, and 100 mg/kg bw
Method	: OECD Test Guideline 452

Species	: Rat, male and female
LOAEC	: 0,0011 mg/l
Application Route	: Inhalation
Exposure time	: 6 months
Target Organs	: Respiratory system

### **GAMMA-CYHALOTHRIN:**

LOAEL	: 6 mg/kg
Method	: OECD Test Guideline 408
Target Organs	: Nervous system

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **malathion (ISO) [containing ≤ 0,03 % isomalathion]:**

The substance does not have properties associated with aspiration hazard potential.

#### **Solvent naphtha (petroleum), heavy arom.:**

May be fatal if swallowed and enters airways.

#### **GAMMA-CYHALOTHRIN:**

The substance does not have properties associated with aspiration hazard potential.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

##### Product:

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.

#### Experience with human exposure

##### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

#### Neurological effects

##### Components:

##### **malathion (ISO) [containing $\leq 0,03$ % isomalathion]:**

Remarks : No neurotoxicity observed in animal studies

##### **GAMMA-CYHALOTHRIN:**

Remarks : Symptoms include tremors, incoordination, hyperactivity and paralysis

#### Further information

##### Product:

Remarks : Solvents may degrease the skin.

##### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

##### **GAMMA-CYHALOTHRIN:**

Remarks : On contact, the active ingredient can cause feelings of burn-

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

ing, tingling or numbness in exposed areas (paraesthesia), which is harmless at low exposure, but can be quite painful, especially in the eye. The effect may result from splash, aerosol or transfer from contaminated gloves. The effect is transient, lasting up to 24 hours, but may in exceptional cases last longer. It may be considered as a warning that overexposure has occurred and that work practice should be reviewed.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1,99 µg/l  
Exposure time: 48 h

Toxicity to soil dwelling organisms : LC50: 129 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: 215 mg/kg  
Species: Coturnix japonica (Japanese quail)

LC50: 0.19  
Exposure time: 48 h  
Species: Apis mellifera (bees)

#### Components:

##### **malathion (ISO) [containing ≤ 0,03 % isomalathion]:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.72 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Selenastrum capricornutum (green algae)): 4,06 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC: 0,021 mg/l  
Exposure time: 37 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,006 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

M-Factor (Chronic aquatic toxicity) : 1.000

Toxicity to soil dwelling organisms : 613 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LC50: 3.497 mg/kg  
Exposure time: 5 d  
Species: Colinus virginianus (Bobwhite quail)

LD50: 1.485 mg/kg  
Species: Anas platyrhynchos (Mallard duck)

LD50: 0.38 µg/bee  
Species: Apis mellifera (bees)

### Solvent naphtha (petroleum), heavy arom.:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1,4 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : LL50 (Tetrahymena pyriformis): 677,9 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EL50: 0,89 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8,8 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (Desmodesmus subspicatus (green algae)): 6,25 mg/l  
Exposure time: 72 h  
Test Type: semi-static test

ErC50 (Desmodesmus subspicatus (green algae)): 63 - 78 mg/l

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Exposure time: 72 h  
Test Type: semi-static test

### maleic anhydride:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC10 (Pseudokirchneriella subcapitata (green algae)): 11,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 74,35 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 44,6 mg/l  
Exposure time: 18 h  
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### GAMMA-CYHALOTHRIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,07 µg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 0,1 µg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): > 2,85 mg/l  
Exposure time: 72 h

NOEC (algae): 0,134 mg/l  
Exposure time: 72 h

IC50 (Selenastrum capricornutum (green algae)): > 2,85 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000.000

Toxicity to fish (Chronic toxicity) : NOEC: 0,035 µg/l  
Exposure time: 21 d  
Species: Pimephales promelas (fathead minnow)



# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0022 µg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10.000

Toxicity to soil dwelling organisms : LC50:  
> 1300 mg/kg dry weight (d.w.)  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)

NOEC: 0,25 mg/kg,  
> 1300 mg/kg dry weight (d.w.)  
Exposure time: 56 d  
End point: reproduction  
Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organisms : LD50: > 2.000 mg/kg  
Species: Colinus virginianus (Bobwhite quail)

LD50: 0.005 µg/bee  
Exposure time: 24 h  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)

LD50: 4.2 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)

### 12.2 Persistence and degradability

#### Components:

##### **malathion (ISO) [containing ≤ 0,03 % isomalathion]:**

Biodegradability : Result: Not readily biodegradable.

##### **Solvent naphtha (petroleum), heavy arom.:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 58,6 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

##### **Poly(oxy-1,2-ethanediyl), .alpha.-hydro.-omega.-hydroxy-, mono-C8-10-alkyl ethers, phosphates:**

Biodegradability : Result: Biodegradable  
Biodegradation: 87 %  
Exposure time: 28 d  
Method: Regulation (EC) No. 440/2008, Annex, C.4-B

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

---

### maleic anhydride:

Biodegradability : Inoculum: activated sludge, non-adapted  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 25 d  
Method: OECD Test Guideline 301B  
Remarks: Based on data from similar materials

### GAMMA-CYHALOTHRIN:

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 21 %  
Exposure time: 28 d

## 12.3 Bioaccumulative potential

### Components:

#### malathion (ISO) [containing $\leq 0,03$ % isomalathion]:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 95  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 2,75

#### Solvent naphtha (petroleum), heavy arom.:

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3,72  
Method: QSAR

### maleic anhydride:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -2,61

### GAMMA-CYHALOTHRIN:

Bioaccumulation : Remarks: Can accumulate in aquatic organisms.

Partition coefficient: n-octanol/water : log Pow: 5,2 (25 °C)

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

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### 12.4 Mobility in soil

#### Components:

##### **Solvent naphtha (petroleum), heavy arom.:**

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

##### **GAMMA-CYHALOTHRIN:**

Distribution among environmental compartments : Koc: 59677 ml/g, log Koc: 4,77  
Kd: 239 - 826 ml/g  
Remarks: Slightly mobile in soils

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

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

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Very toxic to aquatic life with long lasting effects.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed hazardous waste management company (such as A.D.I.VALOR).

Contaminated packaging : Empty and rinse the container.  
Dispose of as hazardous material.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Do not re-use empty containers.  
Bring the opened, rinsed and drained containers to a company  
authorized to dispose of hazardous waste (such as  
A.D.I.VALOR).  
Waste disposal code: 02 01 08 agrochemical waste containing  
dangerous substances.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN	:	UN 2902
ADR	:	UN 2902
RID	:	UN 2902
IMDG	:	UN 2902
IATA	:	UN 2902

#### 14.2 UN proper shipping name

ADN	:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Malathion, Gamma-cyhalothrin, ALKYL(C3-C6)BENZENES)
ADR	:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Malathion, Gamma-cyhalothrin, ALKYL(C3-C6)BENZENES)
RID	:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Malathion, Gamma-cyhalothrin, ALKYL(C3-C6)BENZENES)
IMDG	:	PESTICIDE, LIQUID, TOXIC, N.O.S. (Malathion, Gamma-cyhalothrin, ALKYL(C3-C6)BENZENES)
IATA	:	Pesticide, liquid, toxic, n.o.s. (Malathion, Gamma-cyhalothrin, ALKYL(C3-C6)BENZENES)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	:	6.1
ADR	:	6.1
RID	:	6.1
IMDG	:	6.1
IATA	:	6.1

#### 14.4 Packing group

ADN		
Packing group	:	III
Classification Code	:	T6
Hazard Identification Number	:	60
Labels	:	6.1
ADR		

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

Packing group : III  
Classification Code : T6  
Hazard Identification Number : 60  
Labels : 6.1  
Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : T6  
Hazard Identification Number : 60  
Labels : 6.1

### IMDG

Packing group : III  
Labels : 6.1  
EmS Code : F-A, S-A

### IATA (Cargo)

Packing instruction (cargo aircraft) : 663  
Packing instruction (LQ) : Y642  
Packing group : III  
Labels : Toxic

### IATA (Passenger)

Packing instruction (passenger aircraft) : 655  
Packing instruction (LQ) : Y642  
Packing group : III  
Labels : Toxic

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	malathion (ISO) [containing $\leq 0,03$ % isomalathion]
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	E1	ENVIRONMENTAL HAZARDS
	34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Occupational Illnesses (R-461-3, France) : 34, 84, 66

Reinforced medical supervision (R4624-18) : The product has no CMR properties

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

ICPE section (Installations  
classified for environmental  
protection; Environmental  
code R511-9) : 4510, 4734

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  (S)-ALPHA-CYAN-3-PHENOXYBENZYL (1R,3R)-3-[(Z)-2-CHLORO-3,3,3-TRIFLUOROPROPENYL]-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

## 15.2 Chemical safety assessment

### SECTION 16: Other information

#### Full text of H-Statements

H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.

# SAFETY DATA SHEET

According to Commission Regulation (EU) 2020/878 of amending  
Regulation (EC) No 1907/2006



## SANCTUM

Version	Revision Date:	SDS Number:	Date of last issue: 12.09.2022
1.1	08.11.2022	50001281	Date of first issue: 12.09.2022

H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H330	: Fatal if inhaled.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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.
H411	: Toxic to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Resp. Sens.	: Respiratory sensitisation
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitisation
STOT RE	: Specific target organ toxicity - repeated exposure
FR VLE	: France. Occupational Exposure Limits
FR VLE / VME	: Time Weighted Average
FR VLE / VLCT (VLE)	: Short Term Exposure Limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous



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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Acute Tox. 3	H301
Acute Tox. 4	H332
Eye Dam. 1	H318
Resp. Sens. 1	H334
Skin Sens. 1	H317
STOT RE 2	H373
Asp. Tox. 1	H304
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method  
Calculation method

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