



# SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

## Spyrale

Revision date 04-Aug-2025

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Product Code(s)

FNG56947-31

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

### 1.1. Product identifier

**Spyrale**

#### Other means of identification

Pure substance/mixture Mixture

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

Recommended use Fungicide; Professional use  
Uses advised against No information available

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

#### Supplier

ADAMA Northern Europe B.V  
P.O. Box 355  
3830 AK Leusden, The Netherlands  
Tel: (+31) (0) 33 2056800

#### For further information, please contact

E-mail address msds.ane@adama.com

### 1.4. Emergency telephone number

Emergency Telephone Call local Poison Control Centre for assistance  
BE : +32 70 245 245  
NL : +31 30 274 88 88 This service is only available to health professionals.  
DE : +49 30 19240  
General emergency service 112

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aspiration hazard	Category 1 - (H304)
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity	Category 2 - (H351)
Reproductive toxicity	Category 2 - (H361d)
Specific target organ toxicity — single exposure	Category 3 - (H335, H336)

Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains Fenpropidin, Difenconazole, Hydrocarbons, C10-C13, aromatics, <1% naphthalene, Coco alkylamine ethoxylate

### Hazard pictograms



### Signal word

Danger

### Hazard statements

H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 H335 - May cause respiratory irritation  
 H336 - May cause drowsiness or dizziness  
 H351 - Suspected of causing cancer  
 H361d - Suspected of damaging the unborn child  
 H373 - May cause damage to organs through prolonged or repeated exposure  
 H410 - Very toxic to aquatic life with long lasting effects

### Precautionary Statements

P102 - Keep out of reach of children  
 P201 - Obtain special instructions before use  
 P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
 P270 - Do not eat, drink or smoke when using this product  
 P273 - Avoid release to the environment  
 P280 - Wear protective gloves/protective clothing/eye protection/face protection  
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 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 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 P331 - Do NOT induce vomiting  
 P391 - Collect spillage

### EU Specific Hazard Statements

EUH208 - Contains ( Fenpropidin ). May produce an allergic reaction  
 EUH401 - To avoid risks to human health and the environment, comply with the instructions for use

### Additional phrases for PPP

SP1 - Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads).

## 2.3. Other hazards

### PBT & vPvB

The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information None known.

Persistent Organic Pollutants Not applicable.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	CAS No	EC No	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	REACH Registration Number
Fenpropidin	67306-00-7	-	612-299-00-0	35-40	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Repr. 2 (H361d) STOT SE 3 (H335) STOT SE 3 (H336) STOT RE 2 (H373) (nervous system, eyes, lungs) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		Inhalation: ATE=1.2 mg/L (dusts/mists) oral: ATE=1330 mg/kg bw M=1000 M=10000	No data available
Hydrocarbons, C10-C13, aromatics, <1% naphthalene	-	922-153-0		30-35	Asp. Tox. 1 (H304) Aquatic Chronic 2 (H411) (EUH066)			01-211945109 7-39-0002
Difenoconazole	119446-68-3	-	613-347-00-3	9-12	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		ATE = 1450 mg/kg bw M=10 M=10	No data available
Coco alkylamine ethoxylate	61791-14-8	-		2-4	Acute Tox. 4 (H302) Eye Dam. 1 (H318)			No data available

					Aquatic Chronic 3 (H412)			
Calcium dodecylbenzenesulfonate, branched	70528-83-5	274-654-2		1-3	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)			No data available
1-Hexanol	111-27-3	203-852-3	603-059-00-6	1-3	Acute Tox. 4 (H302)			No data available
Solvent naphtha, petroleum, heavy arom.	64742-94-5	265-198-5		1-3	Asp. Tox. 1 (H304) STOT SE 3 (H336) Aquatic Chronic 2 (H411)			No data available
Naphthalene	91-20-3	202-049-5	601-052-00-2	<0.3	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			No data available
1,2,4-Trimethylbenzene	95-63-6	202-436-9	601-043-00-3	<0.3	Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335) Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226)			No data available

Acute toxicity estimates (ATEs) according to Part 3 of Annex VI to Regulation (EC) No 1272/2008 are indicated in this table, if available

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

<b>General advice</b>	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.
<b>Inhalation</b>	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a doctor.
<b>Eye contact</b>	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. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a doctor if necessary.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Get medical attention immediately if symptoms occur.

**Self-protection of the first aider** Use personal protective equipment as required.

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

**Symptoms** None known.

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

**Note to doctors** Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. 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.

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

**Specific hazards arising from the chemical** No information available.

#### **5.3. Advice for firefighters**

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

### **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Avoid generation of dust. Do not breathe dust.

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

**For emergency responders** Use personal protection recommended in Section 8.

#### **6.2. Environmental precautions**

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

#### **6.3. 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** Take up mechanically, placing in appropriate containers for disposal.

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

#### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

### 7.1. Precautions 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. Remove contaminated clothing and shoes. Ensure adequate ventilation. Take off contaminated clothing and wash it before reuse. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.

### 7.2. 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. Store away from other materials.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Chemical name	European Union	Netherlands
Naphthalene 91-20-3	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	TWA: 50 mg/m <sup>3</sup> STEL: 80 mg/m <sup>3</sup>
1,2,4- Trimethylbenzene 95-63-6	TWA: 20 ppm TWA: 100 mg/m <sup>3</sup>	TWA: 100 mg/m <sup>3</sup> STEL: 200 mg/m <sup>3</sup>

#### Derived No Effect Level (DNEL)

No information available.

#### Predicted No Effect Concentration (PNEC)

No information available.

### 8.2. Exposure controls

#### Engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

##### Eye/face protection

Tight sealing safety goggles.

##### 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).

##### 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.

##### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.

#### General hygiene considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapours/spray.

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

## SECTION 9: Physical and chemical properties

### 9.1. 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		
Colour	: yellow to brown		
Odour	: Aromatic		
<b>Odour threshold</b>	: No data available		
<b>pH</b>	: 8-12	CIPAC MT 75.3	solution (1%)
<b>Melting point / freezing point °C</b>	: No data available		
<b>Boiling point / boiling range °C</b>	: No data available		
<b>Flash point °C</b>	: 101-105	EEC A.9	
<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>Vapour pressure kPa</b>	: No data available		
<b>Vapour density</b>	: No data available		
<b>Relative density</b>	: 0.928-1.028	OECD 109	40 °C
<b>Solubility(ies) mg/l</b>	: No data available		
<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>	: 15.6	OECD 114	
<b>Surface tension</b>	: No data available		
<b>Particle Size</b>	: Not applicable		

### 9.2. Other information

**Bulk density g/ml** : Not applicable

#### 9.2.1. Information with regards to physical hazard classes

**Explosive properties** : Not an explosive

**Oxidising properties** : Not oxidizing

#### 9.2.2. Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No information available.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

**10.3. Possibility of hazardous reactions**

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

**10.4. Conditions to avoid**

**Conditions to avoid** Excessive heat.

**10.5. Incompatible materials**

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

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
<b>Oral LD50 mg/kg</b>	: 1500-2000	Rat	OECD 401	
<b>Dermal LD50 mg/kg</b>	: >4000	Rat	OECD 402	
<b>Inhalation LC50 mg/l</b>	: 3.23			ATEmix
<b>Skin corrosion/irritation</b>	: Irritating to skin	Rabbit	OECD 404	
<b>Serious eye damage/eye irritation</b>	: Irritating to eyes	Rabbit	OECD 405	
<b>Sensitisation</b>	: Not a skin sensitiser	Guinea pig	OECD 406	

**Chronic toxicity****Germ cell mutagenicity**

**Chemical name**  
Fenpropidin : Not classified  
Difenoconazole : Not classified

**Carcinogenicity**

**Chemical name**  
Fenpropidin : Not Carcinogenic  
Difenoconazole : Suspected of causing cancer

**Reproductive toxicity**

**Chemical name**  
Fenpropidin : H361d - Suspected of damaging the unborn child  
Difenoconazole : Not toxic for the reproductive system

**STOT - Single Exposure**

**Chemical name**  
Fenpropidin : H335 - May cause respiratory irritation; H336 - May cause drowsiness or dizziness  
Difenoconazole : Not classified

**STOT - Repeated Exposure**

**Chemical name**  
Fenpropidin : H373 - May cause damage to organs through prolonged or repeated exposure  
Difenoconazole : Not classified

**Aspiration hazard**

**Chemical name**

Fenpropidin : Not classified  
 Difenoconazole : Not classified

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

### 12.1. Toxicity

<u>Acute toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: 2.6	Oncorhynchus mykiss	OECD 203	
Crustacea 48-hour EC50 mg/l	: 6.2	Daphnia magna	OECD 202	
Algae 72-hour EC50 mg/l	: 0.00033	Scenedesmus subspicatus	OECD 201	
Other plants EC50 mg/l	: ---		OECD 221	No data available

<u>Chronic aquatic toxicity</u>	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: 0.1	Rainbow trout	OECD 215	
Crustacea NOEC mg/l	: 0.1	Daphnia magna	OECD 211	
Algae NOEC mg/l	: No data available			
Other plants NOEC mg/l	: No data available			

### Terrestrial Toxicity

#### Birds Oral LD50 mg/kg

##### Chemical name

Fenpropidin	: 369	No data available	
Difenoconazole	: > 2000	Japanese quail	FIFRA 71-1

#### Bees Oral LD50 µg/bee

##### Chemical name

Fenpropidin	: >10
Difenoconazole	: > 177

### 12.2. Persistence and degradability

#### Abiotic Degradation

##### Water DT50 days

##### Chemical name

Fenpropidin	: 67		
Difenoconazole	: 1d	OECD 308	Not persistent in water

##### Soil DT50 days

##### Chemical name

Fenpropidin	: 116		
Difenoconazole	: 149-187	OECD 307	

#### Biodegradation

##### Chemical name

Fenpropidin	: Not readily biodegradable		
Difenoconazole	: Not readily biodegradable	OECD 301B	

### 12.3. Bioaccumulative potential

<b>Partition Coefficient (n-octanol/water) Log Pow</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical name</b>			
Fenpropidin	: 2.9	EEC A.8	
Difenoconazole	: 4.4	OECD 117; EEC A.8	25 °C
<b>Bioconcentration factor (BCF)</b>			
<b>Chemical name</b>			
Fenpropidin	: 163		pH 7.6-7.9
Difenoconazole	: 330	FIFRA 72-6	

**12.4. Mobility in soil**

<b>Adsorption/Desorption</b>	<b>Values</b>	<b>Method</b>	<b>Remarks</b>
<b>Chemical name</b>			
Fenpropidin	: 3808		KOC
Difenoconazole	: 400 - 7730	OECD 106	KOC

**Endocrine Disruptor Information****12.5. Results of PBT and vPvB assessment**

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

**12.6. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

**12.7. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

<b>Waste from residues/unused products</b>	Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Improper disposal or reuse of this container may be dangerous and illegal.
<b>Other information</b>	Waste codes should be assigned by the user based on the application for which the product was used.

**SECTION 14: Transport information****ADR**

<b>14.1 UN number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenoconazole)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenpropidin, Difenoconazole), 9, III, (-)
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274, 335, 601, 375
<b>Classification code</b>	M6
<b>Tunnel restriction code</b>	(-)

**RID**

<b>14.1 UN number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenoconazole)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III

<b>Description</b>	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenpropidin, Difenconazole), 9, III
<b>Environmental hazard</b>	Yes
<b>Special Precautions for Users</b>	
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274, 335, 375, 601
<b>Classification code</b>	M6
<b>IMDG</b>	
<b>14.1 UN number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenconazole)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenconazole), 9, III, Marine pollutant
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>14.5 Marine pollutant</b>	P
<b>Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	274, 335, 969
<b>EmS-No</b>	F-A, S-F
<b>IMDG Stowage and segregation</b>	Category A No information available
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	No information available

**IATA**

<b>14.1 UN number</b>	UN3082
<b>14.2 UN proper shipping name</b>	Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenconazole)
<b>14.3 Transport hazard class(es)</b>	9
<b>14.4 Packing group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substances, liquid, n.o.s. (Fenpropidin, Difenconazole), 9, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Precautions for Users</b>	
<b>Special Provisions</b>	A97, A158, A197, A215
<b>ERG Code</b>	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

## SECTION 15: Regulatory information

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

#### National regulations

Trade name / designation	Registration Number(s)	Date
Not Applicable NL National Regulations	Not Applicable The permissibility of the product was tested against the Dutch pesticide act "Wet	Not Applicable

Gewasbeschermingsmiddelen en Biociden". The product was approved. approval number 12975 N

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not applicable

Chemical name	EU - Water Framework Directive (2000/60/EC)
Naphthalene - 91-20-3	Priority substance

Chemical name	EU - Environmental Quality Standards (2008/105/EC)
Naphthalene - 91-20-3	Priority substance

**15.2. Chemical safety assessment****Chemical Safety Report**

A risk assessment was performed according to directive (EC) No. 91/414 or according to regulation (EC) No. 1107/2009

**SECTION 16: Other information****Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH066 - Repeated exposure may cause skin dryness or cracking  
 H226 - Flammable liquid and vapour  
 H302 - Harmful if swallowed  
 H304 - May be fatal if swallowed and enters airways  
 H315 - Causes skin irritation  
 H317 - May cause an allergic skin reaction  
 H318 - Causes serious eye damage  
 H319 - Causes serious eye irritation  
 H332 - Harmful if inhaled  
 H335 - May cause respiratory irritation  
 H336 - May cause drowsiness or dizziness  
 H351 - Suspected of causing cancer  
 H361d - 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  
 H411 - Toxic to aquatic life with long lasting effects  
 H412 - Harmful to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

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

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

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Revision date 04-Aug-2025

Reason for revision Section 3

**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

**Classification according to Regulation (EC) No. 1272/2008 [CLP]****Classification of the mixture**

H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
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

**Classification procedure**

Classification based on test data  
Classification based on test data  
Classification based on the decision of the plant protection authority in Netherlands.  
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

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**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