

**Trade name:** Rhino DS**Product no.:** NO 015 C01748 UK**Current version :** 2.0.5, issued: 28.06.2023**Replaced version:** 2.0.4, issued: 22.06.2023**Region:** GB**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****Rhino DS****1.2 Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Plant protection product

Fungicide

**Uses advised against**

No data available.

**1.3 Details of the supplier of the safety data sheet****Address**

Certis Belchim B.V. (EU)

Stadsplateau 16

3521 AZ Utrecht - Nederland

Telephone no. 0031 (0)30 200 1200

Fax no. 0031 (0)30 310 0241

e-mail [info@certisbelchim.com](mailto:info@certisbelchim.com)**Advice on Safety Data Sheet**[www.certisbelchim.com](http://www.certisbelchim.com)**Identification of the supplier****Address**

Certis Belchim B.V. - United Kingdom

Suite 5, 3 Riverside, Granta Park - Great Abington

Cambridgeshire CB21 6AD

United Kingdom

Telephone no. 0044 (0) 1223 652500

Fax no. 0044 (0)1223 891210

e-mail [info.uk@certisbelchim.com](mailto:info.uk@certisbelchim.com) - [www.certisbelchim.co.uk](http://www.certisbelchim.co.uk)**1.4 Emergency telephone number**

Carechem 24 EU: +44 1235 239670

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 3; H412

Eye Irrit. 2; H319

**Classification information**

Classification and labelling are based on toxicological studies performed on the product (mixture).

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

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GHS07

**Signal word**

Warning

**Hazard statement(s)**

H319 Causes serious eye irritation.  
 H412 Harmful to aquatic life with long lasting effects.

**Hazard statements (EU)**

EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

**Precautionary statement(s)**

P264 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 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 to a licensed hazardous waste disposal contractor or collection site except for triple rinsed empty clean containers which can be disposed of as non-hazardous waste.

**2.3 Other hazards**

PBT assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

vPvB assessment

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

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

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Flutolanil 6% (DP)

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	Flutolanil		
	66332-96-5	Aquatic Chronic 2; H411	>= 5.00 - < 10.00 wt%
	-		
	-		
	-		

Full Text for all H-phrases and EUH-phrases: pls. see section 16

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

If medical advice is needed, have product container or label at hand.

**After inhalation**

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Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

**After skin contact**

Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**After eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse AWAY from the unaffected eye. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Rinse mouth. Call a POISON CENTER or doctor/physician.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol-resistant foam; Carbon dioxide; Extinguishing powder; Water spray jet

**Unsuitable extinguishing media**

High power water jet

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

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Hydrogen fluoride (HF)

**5.3 Advice for firefighters**

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. Wear protective clothing.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge uncontrolled into the subsoil/soil. Notify the authorities if product enters sewers or public waters.

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

Recover mechanically. When collected, handle material as described under the section heading "Disposal considerations".

**6.4 Reference to other sections**

Information regarding waste disposal, see section 13. Information regarding personal protective measures, see section 8. Information regarding safe handling, see section 7.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). Do not inhale dust. Avoid dust formation.

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Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Remove soiled or soaked clothing immediately. Do not inhale dust/fumes/aerosols.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Keep locked up in a safe place and only accessible to specialist personnel.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)****Industry solution**

Always read the label and product information before use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

No parameters available for monitoring.

**8.2 Exposure controls****Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

**Personal protective equipment****Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Precautions should be taken to avoid breathing of material.

**Eye / face protection**

Safety glasses (EN 166)

**Hand protection**

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Chemical-resistant work clothes.

**Environmental exposure controls**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

<b>State of aggregation</b>
solid
<b>Form</b>
Powder

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<b>Colour</b>	
green	
<b>Odour</b>	
No data available	
<b>pH value</b>	
Value	6.9
Source	Manufacturer
<b>Boiling point / boiling range</b>	
No data available	
<b>Melting point/freezing point</b>	
No data available	
<b>Decomposition temperature</b>	
No data available	
<b>Flash point</b>	
No data available	
<b>Ignition temperature</b>	
No data available	
<b>Explosive properties</b>	
Clouds of fine dust may form explosive mixtures with air.	
<b>Flammability</b>	
not flammable	
Source	Manufacturer
<b>Lower explosion limit</b>	
No data available	
<b>Upper explosion limit</b>	
No data available	
<b>Vapour pressure</b>	
No data available	
<b>Relative vapour density</b>	
No data available	
<b>Relative density</b>	
No data available	
<b>Density</b>	
No data available	
<b>Bulk density</b>	
Value	0.49 g/ml
<b>Solubility</b>	
No data available	
<b>Partition coefficient n-octanol/water (log value)</b>	
No data available	
<b>Kinematic viscosity</b>	
No data available	
<b>Particle characteristics</b>	
No data available	

**9.2 Other information**

<b>Other information</b>
No data available.

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The product is stable under normal storage and handling conditions.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Extreme heat

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Combustion or thermal decomposition may generate toxic vapours.

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

Acute oral toxicity			
No	Product Name		
1	Rhino DS		
LD50	>	5000	mg/kg
Species	rat		
Source	Manufacturer		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		

Acute dermal toxicity			
No	Product Name		
1	Rhino DS		
LD50	>	2000	mg/kg
Species	rabbit		
Source	Manufacturer		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		

Acute inhalational toxicity			
No	Product Name		
1	Rhino DS		
LC50		5.13	mg/m <sup>3</sup>
State of aggregation	Vapour		
Species	rat		
Source	Manufacturer		
No	Substance name	CAS no.	EC no.
2	Flutolanil	66332-96-5	-
LC50	>	5.98	mg/l
State of aggregation	Dust/mist		
Species	rat		
Source	Manufacturer		
Evaluation/classification	On the basis of the available information, the classification criteria are not met.		

Skin corrosion/irritation	
No	Product Name
1	Rhino DS
Species	rabbit
Source	Manufacturer

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Evaluation	non-irritant
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Serious eye damage/irritation	
No	Product Name
1	Rhino DS
Species	rabbit
Source	Manufacturer
Comments	Analogous to product with a similar composition.
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.

Respiratory or skin sensitisation	
No data available	

Germ cell mutagenicity	
No data available	

Reproduction toxicity	
No data available	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

Aspiration hazard	
No data available	

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

**SECTION 12: Ecological information****12.1 Toxicity**

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	Flutolanil	66332-96-5	-
LC50	>=	3.21	mg/l
Duration of exposure		96	h
Species	Cyprinus carpio		
Method	OECD 203		
Source	Manufacturer		

Toxicity to fish (chronic)	
No data available	

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	Flutolanil	66332-96-5	-
EC50	>=	6.8	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	Manufacturer		

Toxicity to Daphnia (chronic)	
No data available	

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Toxicity to algae (acute)				
No	Substance name		CAS no.	EC no.
1	Flutolanil		66332-96-5	-
ErC50		>=	3.2	mg/l
Duration of exposure			72	h
Species		Selenastrum capricornutum		
Method		OECD 201		
Source		Manufacturer		

Toxicity to algae (chronic)			
No	Substance name	CAS no.	EC no.
1	Flutolanil	66332-96-5	-
NOEC		0.18	mg/l
Duration of exposure		72	h
Species		Selenastrum capricornutum	
Method		OECD 201	
Source		Manufacturer	

Bacteria toxicity				
No data available				

**12.2 Persistence and degradability**

Biodegradability			
No	Substance name	CAS no.	EC no.
1	Flutolanil	66332-96-5	-
Type		hydrolysis	
with reference to		pH 5-9	
Source		Manufacturer	
Evaluation/classification		stable	
Type		photolysis	
Value		50	%
Duration		277	day(s)
with reference to		pH 7	
Source		Manufacturer	

**12.3 Bioaccumulative potential**

Bioconcentration factor (BCF)			
No	Substance name	CAS no.	EC no.
1	Flutolanil	66332-96-5	-
BCF		100	
Source		Manufacturer	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product uncontrolled into the environment.



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Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

**14.2 Transport IMDG**

The product is not subject to IMDG regulations.

**14.3 Transport ICAO-TI / IATA**

The product is not subject to ICAO-TI / IATA regulations.

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
**EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is not subject to Part 1 or 2 of Annex I.

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**Regulation (EC) No 1107/2009 concerning the placing of plant protection products on the market**

Regulation (EU) No 547/2011 implementing Regulation (EC) No 1107/2009 as regards labelling requirements for plant protection products

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Annex III	
SP1	Do not contaminate water with the product or its container.

**15.2 Chemical safety assessment**

A chemical safety assessment has not been carried out for this mixture.

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H411 Toxic to aquatic life with long lasting effects.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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Prod-ID 782460