

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended]

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: **STROBE 250 SC**

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

Relevant identified uses: a fungicidal plant protection product.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Supplier: **ProAgri Hungary Korlátolt Felelősségű Társaság,**

Address: 1037 Budapest, Szépvölgyi út 147.

Telephone/fax:

E-mail address for a competent person responsible for SDS: proagri.hu@gmail.com

BDO register number

UFI:

1.4 Emergency telephone number

112

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Acute Tox. 4 H302, Eye Irrit. 2 H319, Acute Tox. 4 H332, Aquatic Acute 1 H400, Aquatic Chronic 1 H410

Harmful if swallowed. Causes serious eye irritation. Harmful if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms and signal words



WARNING

The names of substances on the label

Contains: azoxystrobin (ISO); 2-methyl-2H-isothiazol-3-one.

Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing vapours.

P280 Wear eye protection.

P304+P340 IF INHALED: Remove person to fresh air and keep 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

P391 Collect spillage.

Additional information

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

2.3 Other hazards

The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

CAS number: 131860-33-8 EC number: — Index number: 607-256-00-8 Registration number: —	<u>azoxystrobin (ISO)</u> Acute Tox. 3 H331, Aquatic Acute 1 H400 (M=1), Aquatic Chronic 1 H410 (M=1)	< 25,5 %
CAS number: 57-55-6 EC number: 200-338 Index number: — Registration number: 01-2119456809-23-XXXX	<u>propane-1,2-diol²⁾</u> substance is not classified as hazardous	< 10 %
CAS number: 68439-50-9 EC number: 500-213-3 Index number: — Registration number: —	<u>alcohols, C12-14, ethoxylated</u> Acute Tox. 4 H302, Eye Dam. 1 H318	< 2,8 %
CAS number: 2682-20-4 EC number: 220-239-6 Index number: 613-326-00-9 Registration number: —	<u>2-methyl-2H-isothiazol-3-one</u> Acute Tox. 3 H301, Acute Tox. 3 H311, Skin Corr. 1B H314, Skin Sens. 1A H317, Eye Dam. 1 H318, Acute Tox. 2 H330, Aquatic Acute 1 H400 (M=10), Aquatic Chronic 1 H410 (M=1), EUH071 ¹⁾ Specific concentration limit: Skin Sens. 1A H317: C ≥ 0,0015 %	< 0,003 %

1) Additional hazard statement.

2) Substance with occupational exposure limits defined on the Great Britain level.

Full text of each relevant H phrases is given in section 16 of SDS.

Section 4: First aid measures

4.1 Description of first aid measures

Skin contact: wash out contaminated skin with plenty of water. Take off contaminated clothing. Wash contaminated clothing before re-use. Consult a doctor if disturbing symptoms occur.

Eye contact: remove contact lenses. Wash the contaminated eye with plenty of water for at least 15 minutes. Avoid powerful stream of water – risk of cornea damage. Consult an ophthalmologist, if disturbing symptoms occur.

Ingestion: do not induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a doctor if disturbing symptoms occur., show the container or label.

Inhalation: remove the victim to fresh air. Keep warm and calm. Consult a doctor if disturbing symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

There are no known significant effects other than resulting from classification.

4.3 Indication of any immediate medical attention and special treatment needed

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

Section 5: Firefighting measures

5.1

Extinguishing media

Suitable extinguishing media: extinguishing powder, water spray. Adjust the extinguishing media to the surrounding materials.

Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce harmful gases of carbon oxides, sulfur oxides other unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. In case of fire, cool endangered containers with water spray from the safe distance. Collect used extinguishing media.

Section 6: Accidental release measures

6.1

Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that the consequences of failure remove only trained personnel. In case of large spills, isolate the exposed area. Avoid contact with skin and eyes. Ensure adequate ventilation. Do not inhale vapours. Use personal protective measures.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services. Avoid contamination of drainage system, water intakes, basements and confined areas.

6.3 Methods and material for containment and cleaning up

Damaged containers should be placed in a sealed, protective packages. Collect using liquid binding materials (eg. sand, earth, universal binding substances etc.) and place it in correctly labelled containers. Treat collected material as waste. Clean contaminated place with water. Ventilate the contaminated area.

6.4 Reference to other sections

Appropriate conduct with waste product – see section 13. Personal protective equipment – see section 8.

Section 7: Handling and storage
7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke during work. Wear personal protective equipment. Avoid skin and eye contamination. Do not inhale vapours. Ensure adequate ventilation. Wash hands before breaks and after work. Keep the unused containers tightly closed.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, tightly sealed containers, in a dry, cool and well ventilated place. Keep away from food, foodstuffs, animal feed and incompatible materials (see subsection 10.5). Containers that are opened should be properly resealed and kept upright to prevent leakage. Protect against sources of heat, fire and frost.

7.3 Specific end use(s)

Applications submitted in accordance with section 1.2.

Section 8: Exposure controls/personal protection
8.1 Control parameters

Specification	TWA 8 hour	STEL 15 min
propane-1,2-diol [CAS 57-55-6] -total vapour and particulates - particulates	474 mg/m ³ 10mg/m ³	-

The table above shows the maximum workplace concentration values in Great Britain.

Legal Basis: EH40/2005 Workplace exposure limits. Fourth Edition 2020.

Product does not contain components with occupational exposure limit values established on the European Union level.

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU

Please check any national occupational exposure limit values in your country. DNEL values for propane-1,2-diol [CAS 57-55-6]

Exposure route	Exposure scheme	DNEL (workers)
inhalation	Long-term system	168 mg/m ³
inhalation	Long-term system	10 mg/m ³
Exposure route	Exposure scheme	DNEL (consumers)
inhalation	Long-term system	50 mg/m ³
inhalation	Long-term system	10 mg/m ³

PNEC values for propane-1,2-diol [CAS 57-55-6]

fresh water	260 mg/l
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marine water	26 mg/l
fresh water sediment	572 mg/kg dry matter
marine water sediment	57.2 mg/kg dry matter
soil	50 mg/kg
sporadic release	183 mg/l
sewage treatment plant	20 000 mg/l

Recommended control procedures

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace – if they are available and justified for the position – in accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

8.2 Exposure controls

Appropriate engineering controls

Observe good occupational hygiene and safety practices. Ensure adequate ventilation. Do not eat, drink or smoke when using the product. Avoid skin and eye contamination. Wear personal protective equipment.

Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

Hand and body protection

Use product resistant protective gloves in accordance with EN 374 standard. Material for gloves select individually at the workplace. In case of short term contact use protective gloves with effectiveness level 2 or higher (permeation time > 30 minutes). In case of long term contact use protective gloves with effectiveness level 6 (permeation time > 480 minutes). Wear protective clothing.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

Eye protection

Use tightly fitting safety glasses in accordance with EN 166 standard or face protection.

Respiratory protection

In case of insufficient ventilation, frequent exposure use appropriate respiratory protective equipment with a suitable organic vapor trap.

Thermal hazards Do not occur.

Environmental exposure controls

Prevent direct leakage to the sewage system / surface water. Avoid release to the environment, do not empty into drains.

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

Physical state:	liquid
Colour:	white
Odour:	characteristic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flammability:	not applicable
Lower and upper explosion limit:	not determined
Flash point:	not determined
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	7,2 (1 % solution) (20 °C):
Kinematic viscosity:	not determined
Solubility:	not determined
Partition coefficient n-octanol/water (log value):	not determined
Vapour pressure :	not determined
Density and/or relative density:	1,0758 g/cm ³
Relative vapour density:	not determined
Particle characteristics:	not applicable

9.2 Other information

No additional test results.

Section 10: Stability and reactivity**10.1 Reactivity**

Product is reactive. It does not undergo dangerous polymerization. See also subsections 10.2-10.5.

10.2 Chemical stability

The product is stable under normal conditions of storage and use.

10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

10.4 Conditions to avoid

Avoid sources of high temperatures, heat, fire and frost.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products are not expected under normal use and storage.

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

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies as well as the experience and knowledge of the manufacturer.

Toxicity of components propane-1,2-diol [CAS 57-55-6]

LD₅₀ (oral, rat) > 22 000 mg/kg

LD₅₀ (skin, rabbit) > 2 000 mg/kg

LC₅₀ (inhalation, rabbit) 317 042 mg/m³/2 h

azoxystrobin (ISO) [CAS 131860-33-8]

LD₅₀ (oral) > 5 000 mg/kg

LD₅₀ (skin) > 2 000 mg/kg

LC₅₀ (inhalation) 0,7 mg/l/4 h

Toxicity of mixtureAcute toxicity

ATE_{mix} (oral) > 2 000 mg/kg

ATE_{mix} (skin) > 2 000 mg/kg

ATE_{mix} (inhalation, vapours) 10 < - ≤ 20 mg/l

*The acute toxicity estimate (ATE_{mix}) for the classification of a substance in a mixture was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended. Harmful if inhaled.

Skin corrosion/irritation

Based on available data, the classification criteria are not met

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on likely routes of exposure

Routes of exposure: eye contact, skin contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2.

Symptoms related to the physical, chemical and toxicological characteristics No data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure No data.

11.2 Information on other hazardsEndocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight. Other information No data.

Section 12: Ecological information**12.1 Toxicity****Toxicity of components**propane-1,2-diol [CAS 57-55-6]

Acute toxicity for fish	LC ₅₀	40 613 mg/l/96h/ <i>Onchorhynchus mykiss</i>
Acute toxicity for daphnia	EC ₅₀	18 340 mg/l/48h/ <i>Ceriodaphnia dubia</i>
Acute toxicity for algae	ErC ₅₀	19 000 mg/l/96h/ <i>Pseudokirchneriella subcapitata</i>

Toxicity of mixture

Product is very toxic for aquatic life, with long lasting effects.

12.2 Persistence and degradability

No data for product. **Data for**

components propane-1,2-diol [CAS 57-55-6] Biodegradation: 72-100 % (28 days)

12.3 Bioaccumulative potentialpropane-1,2-diol

Log Po/w = -1,07; bioconcentration factor BCF = 0,09

12.4 Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Product does not contain ingredients, which meet criteria for PBT or vPvB.

12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance

with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 (3) or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of individual components of the mixture on the environment should be considered (e.g. global warming potential).

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal methods for the product: disposal in accordance with the local legislation. Store residues in original containers. Transfer the waste product to an authorised facility. Waste code should be assigned in place of formation.

Disposal methods for used packing: reuse/recycle/eliminate empty containers in accordance with the local legislation.

Only completely emptied packaging can be recycled. Do not mix with other wastes.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

14.1 UN number or ID number

UN 3082

14.2 UN proper shipping name

ADR

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, N.O.S. (AZOXYSTROBIN (ISO))

IMDG

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN (ISO))

ICAO/IATA

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (AZOXYSTROBIN (ISO))

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

Product is dangerous for the aquatic environment in accordance with transport regulation.

14.6 Special precautions for users

Wear personal protective equipment listed in Section 8 of the SDS. Remove the sources of ignition. **14.7**

Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the

Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures in accordance with REACH Regulation.

Section 16: Other informationFull text of indicated H phrases mentioned in section 3

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Clarification of aberrations and acronyms

Acute Tox. 2,3,4	Acute toxicity category 2,3,4
Aquatic Acute 1	Toxicity for aquatic organisms – acute toxicity category 1
Aquatic Chronic 1,3	Toxicity for aquatic organisms – chronic toxicity category 1,3
Eye Dam. 1	Eye Damage category 1
Eye Irrit. 2	Eye Irritation category 2
Skin Corr. 1B	Skin corrosion category 1B
Skin Irrit. 2	Skin Irritation category 2
Skin Sens. 1, 1A	Skin Sensitization category 1, 1A
PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
DNEL	Derived No-Effect Level
PNEC	Predicted No-Effect Concentration

Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. Persons related to the transportation of the dangerous goods in compliance with the ADR Agreement should be properly trained within the scope of performed tasks (general training, on-the-job training and training related to the safety issues).

Key literature references and data sources

This MSDS was prepared on the basis of on manufacturer's data, literature data, online databases (eg. ECHA, TOXNET, COSING), our knowledge and experience, taking into account the current legislation.

Procedures used to classify the mixture

Classification was based on data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended. The acute toxicity estimate (ATEmix) was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended.

Changes: sections 1-16

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.