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1/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name NORTRON 50SC

UFI VFR1-20CQ-T00S-7AH9

Product code (UVP) 05934729

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

Use Herbicide

Identified uses Professional use

1.3 Details of the supplier of the safety data sheet

Supplier Bayer CropScience Ltd

Bayer Ltd

1st Floor, The Grange Offices The Grange, Brewery Road

Stillorgan

A94 H2K7 Co. Dublin

Ireland

Telephone +353 1 216 3300

Responsible Department Email: gb-bcs-crop-regulatory-affairs@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. +44 330 678 3382 (24 hr) (charged as a standard international call to

the UK)

For Medical Professionals and Members of the Public:

You can also contact the relevant NPIS.

National Poisons Information Centre Dublin: 01 809 2166

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

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.

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NORTRON 50SC 2/13

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Long-term (chronic) aquatic hazard: Category 1

H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.



Signal word: Warning

Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

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

use.

EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P391 Collect spillage.

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

P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or

collection site, except for triple rinsed empty containers which can be disposed of as

non-hazardous waste.

2.3 Other hazards

No additional hazards known beside those mentioned.

Ethofumesate: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

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

amended



3/13

NORTRON 50SC

 Version 5 / IRL
 Revision Date: 14.03.2025

 102000002286
 Print Date: 17.03.2025

Chemical nature

Suspension concentrate (=flowable concentrate)(SC) Ethofumesate 500g/l

Hazardous components

Hazard statements according to Regulation (EC) No. 1272/2008

Name	CAS-No. /	Classification	Conc. [%]	
	EC-No. / REACH Reg. No.	REGULATION (EC) No 1272/2008		
Ethofumesate	26225-79-6 247-525-3	Aquatic Chronic 1, H410 Aquatic Acute 1, H400	44.20	
1,2-Benzisothiazol-3(2H)- one	2634-33-5 220-120-9 01-2120761540-60-0003	Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 2, H330 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317	>= 0.005 - < 0.05	
1,2-Propanediol	57-55-6 200-338-0 01-2119456809-23-XXXX	Not classified	> 1.0	

Further information

Ethofumesate	26225-79-6	M-Factor: 1 (acute), 1 (chronic)
1,2-Benzisothiazol-	2634-33-5	M-Factor: 1 (acute), 1 (chronic)
3(2H)-one		
1,2-Benzisothiazol-	2634-33-5	SCL: Skin Sens. 1A; H317: SCL >= 0.036 %
3(2H)-one		
1,2-Benzisothiazol-	2634-33-5	Inhalation: ATE = 0.21 mg/l (dust/mist)
3(2H)-one		
1,2-Benzisothiazol-	2634-33-5	Oral: ATE = 450 mg/kg
3(2H)-one		

For the full text of the H-Statements mentioned in this Section, see Section 16.

Particle characteristics

This substance/ mixture does not contain nanoforms

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Move out of dangerous area. Place and transport victim in stable

position (lying sideways). Remove contaminated clothing immediately and dispose of safely. When symptoms develop and persist, seek

medical advice.

Inhalation Move to fresh air. Keep patient warm and at rest. Call a physician or

poison control center immediately.

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NORTRON 50SC 4/13

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

Skin contact Wash off immediately with soap and plenty of water. Call a physician

or poison control center immediately.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at

> least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control

center immediately.

Do NOT induce vomiting. Rinse mouth. Keep at rest. Call a physician Ingestion

or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms Local:, To date no symptoms are known.

Systemic:, Drowsiness, Headache, lethargy, Dyspnoea, ataxia,

Tremors

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Local treatment: Initial treatment: symptomatic.

> Systemic treatment: Initial treatment: symptomatic. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and

sodium sulphate. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Unsuitable High volume water jet

5.2 Special hazards arising from the substance or

mixture

Dangerous gases are evolved in the event of a fire., In the event of fire

the following may be released:, Carbon dioxide (CO2), Carbon

monoxide (CO), Sulphur oxides

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. Wear self-

contained breathing apparatus and protective suit.

Further information Remove product from areas of fire, or otherwise cool containers with

water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Precautions Keep people away from and upwind of spill/leak. Avoid contact with

> spilled product or contaminated surfaces. Use personal protective equipment. When dealing with a spillage do not eat, drink or smoke.

amended



5/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

6.2 Environmental

precautions

Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective

authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder, sawdust). Collect and transfer the product

into a properly labelled and tightly closed container. Clean

contaminated floors and objects thoroughly, observing environmental

regulations.

Additional advice Check also for any local site procedures.

6.4 Reference to other

sections

Information regarding safe handling, see section 7.

Information regarding personal protective equipment, see section 8.

Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling No specific precautions required when handling unopened

packs/containers; follow relevant manual handling advice. Use only in

area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

No special precautions required.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes

separately. Wash hands before breaks and immediately after handling the product. Remove soiled clothing immediately and clean thoroughly

before using again. Garments that cannot be cleaned must be

destroyed (burnt).

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in original container. Store in a place accessible by authorized persons only. Keep containers tightly closed in a dry, cool and wellventilated place. Keep away from direct sunlight. Protect from freezing.

Keep away from food, drink and animal feedingstuffs. Advice on common storage

Suitable materials HDPE (high density polyethylene) 7.3 Specific end use(s) Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Ethofumesate	26225-79-6	10 mg/m3 (TWA)		OES BCS*
1,2-Propanediol (Particulate.)	57-55-6	10 mg/m3 (TWA)	01 2020	ELV (IE)

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6/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

1,2-Propanediol	57-55-6	470 mg/m3/150 ppm	01 2020	ELV (IE)
(Total vapour and		(TWA)		
particulates.)				

^{*}OES BCS: Internal Bayer AG, Crop Science Division "Occupational Exposure Standard"

8.2 Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Respiratory protection is not required under anticipated

circumstances of exposure.

Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's

instructions regarding wearing and maintenance.

Hand protection

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination on the outside cannot be removed. Wash hands frequently and always before eating,

drinking, smoking or using the toilet.

Material Nitrile rubber
Rate of permeability > 480 min
Glove thickness > 0.4 mm
Protective index Class 6

Directive Protective gloves complying with EN

374.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 6 suit.

If there is a risk of significant exposure, consider a higher protective

type suit.

Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and

should be professionally laundered frequently.

If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully

remove and dispose of as advised by manufacturer.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form suspension

amended



7/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

Colour brown

Odour Characteristic
Odour Threshold No data available
Melting point/ range No data available
Boiling Point No data available
Flammability Not applicable
Upper explosion limit No data available
Lower explosion limit No data available

Flash point Not relevant; aqueous solution

Auto-ignition temperature No data available

Ignition temperature 501 °C

Self-accelarating decomposition temperature

(SADT)

No data available

pH 6.0 - 7.5 (100 %) (23 °C)

Viscosity, dynamic 200 - 450 mPa.s (20 °C)

Velocity gradient 20 /s 100 - 180 mPa.s (20 °C) Velocity gradient 100 /s

Viscosity, kinematic No data available

Water solubility miscible

Partition coefficient: n-

octanol/water

Ethofumesate: log Pow: 2.7 (25 °C)

Surface tension 40 mN/m (25 °C)

Determined in the undiluted form.

Vapour pressure No data available

Density ca. 1.13 g/cm³ (20 °C)

Relative density

No data available

Relative vapour density

No data available

Assessment nano particles This substance/ mixture does not contain nanoforms

Particle size No data available

9.2 Other information

Explosivity Not explosive

Oxidizing properties No oxidizing properties

Evaporation rate No data available

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8/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

Other physico-chemical

properties

Further safety related physical-chemical data are not known.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of No hazardous reactions when stored and handled according to

hazardous reactions prescribed instructions.

10.4 Conditions to avoid Extremes of temperature and direct sunlight.

10.5 Incompatible materials Store only in the original container.

10.6 Hazardous

decomposition products

No decomposition products expected under normal conditions of use.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute oral toxicity LD50 (Rat) > 2,100 mg/kg

ATE (Mix) > 5 mg/lAcute inhalation toxicity

Calculation method

LD50 (Rat) > 4,100 mg/kgAcute dermal toxicity Skin corrosion/irritation No skin irritation (Rabbit) Serious eye damage/eye

irritation

No eye irritation (Rabbit)

Respiratory or skin Skin: Non-sensitizing. (Guinea pig) sensitisation OECD Test Guideline 406, Buehler test

Skin: Non-sensitizing. (Mouse)

OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity - single exposure

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

Assessment STOT Specific target organ toxicity - repeated exposure

Ethofumesate did not cause specific target organ toxicity in experimental animal studies.

Assessment mutagenicity

Ethofumesate was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Ethofumesate was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

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NORTRON 50SC 9/13

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

Ethofumesate did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Ethofumesate did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

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.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 (Cyprinus carpio (Carp)) = 32.6 mg/l

semi-static test; Exposure time: 96 h

LC50 (Danio rerio (zebra fish)) = 68.8 mg/l

semi-static test; Exposure time: 96 h

Toxicity to aquatic

invertebrates

EC50 (Daphnia magna (Water flea)) = 60.6 mg/l static test; Exposure

time: 48 h

Chronic toxicity to aquatic

invertebrates

NOEC (Daphnia magna (Water flea)): = 0.64 mg/l

Exposure time: 21 d

Toxicity to aquatic plants ErC50 (Desmodesmus subspicatus (green algae)) = 9.7 mg/l

static test; Exposure time: 96 h

NOEC (Desmodesmus subspicatus (green algae)) = 2.2 mg/l

static test; Exposure time: 96 h

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)) = 0.848 mg/l

static test; Exposure time: 14 d

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)) = 0.012 mg/l

Growth rate; Exposure time: 14 d

12.2 Persistence and degradability

Biodegradability Ethofumesate:

Not rapidly biodegradable

Koc Ethofumesate: Koc: 147

12.3 Bioaccumulative potential

Bioaccumulation Ethofumesate: Bioconcentration factor (BCF) 144

Does not bioaccumulate.

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10/13

NORTRON 50SC

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

12.4 Mobility in soil

Mobility in soil Ethofumesate: Moderately mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Ethofumesate: This substance is not considered to be persistent,

bioaccumulative and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulative (vPvB).

12.6 Endocrine disrupting properties

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

Additional ecological

information

No other effects to be mentioned.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product It is best to use all of the product in accordance with label directions. If it

is necessary to dispose of unused product, please follow container label

instructions and applicable local guidelines.

Small containers (< 10 l or < 10 kg) should be rinsed thoroughly using Contaminated packaging

an integrated pressure rinsing device, or, by manually rinsing three

times.

Add washings to sprayer at time of filling.

Dispose of empty and cleaned packaging safely. Follow advice on product label and/or leaflet.

Waste key for the unused

product

02 01 08* agrochemical waste containing hazardous substances

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ETHOFUMESATE SOLUTION)

14.3 Transport hazard class(es) 9 14.4 Packing group

Ш

14.5 Environm, Hazardous Mark

YES

Hazard no. 90 **Tunnel Code**

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

amended



NORTRON 50SC

11/13 Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

IMDG

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ETHOFUMESATE SOLUTION)

14.3 Transport hazard class(es) 9 14.4 Packing group Ш 14.5 Marine pollutant YES

IATA

14.1 UN number 3082

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(ETHOFUMESATE SOLUTION)

14.3 Transport hazard class(es) 9 14.4 Packing group Ш 14.5 Environm. Hazardous Mark YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to IMO instruments

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION

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

Republic of Ireland Regulations

This material may be subject to some or all of the following regulations (and any subsequent ammendments). Users must ensure that any uses and restrictions as indicated on the label and/or leaflet are followed.

Supply and Use

European Communities (Prohibition of Certain Active Substances in Plant Protection Products) Regulations 1981 (SI No 320/1981)

European Communities (Authorization, Placing on the Market, Use and Control of Plant Protection Products) Regulations 2003 (SI No 83/2003)

European Communities (Classification, Packaging and Labelling of Plant Protection Products and Biocide Products) Regulations 2001 (SI No 624/2001

2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations, 2001 (SI No 619/2001)

Waste Treatment

Landfill Directive

Regulation on Substances That Deplete the Ozone Layer 1994 (EEC/3093/94)

Further information

WHO-classification: III (Slightly hazardous)

15.2 Chemical safety assessment

amended



NORTRON 50SC 12/13

Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H302 Harmful if swallowed. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ATE Acute toxicity estimate

CAS-Nr. Chemical Abstracts Service number

Conc. Concentration

EC-No. European community number ECx Effective concentration to x %

EINECS European inventory of existing commercial substances

ELINCS European list of notified chemical substances

ELV Exposure Limit Value
EN European Standard
EU European Union

IATA International Air Transport Association

IBC International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk (IBC Code) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

ICx

LOEC/LOEL Lowest observed effect concentration/level

MARPOL: International Convention for the prevention of marine pollution from ships

N.O.S. Not otherwise specified

NOEC/NOEL No observed effect concentration/level

OECD Organization for Economic Co-operation and Development

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SI Statutory Instrument TWA Time weighted average

UN United Nations

WHO World health organisation

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 2020/878 amending Regulation (EU) No 1907/2006 and any subsequent amendments. This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the



NORTRON 50SC

13/13 Version 5 / IRL Revision Date: 14.03.2025 102000002286 Print Date: 17.03.2025

possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.