



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

1/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

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

1.1 Product identifier

Trade name YEOVAL SC200 20X100ML BOT PH
Product code (UVP) 80914938

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

Use Insecticide

1.3 Details of the supplier of the safety data sheet

Company Bayer CropScience, Inc.
3/F Bayer House
Canlubang Industrial Estate
Calamba, Laguna
Philippines

Telephone +63 2 226-4888

Telefax +63 2 450-5474

1.4 Emergency telephone no.

Emergency telephone no. Bayer CropScience, Inc.
+63 2 226-4915 (24-Hour Emergency Assistance)
National Poison Management and Control Center
Tel. No. +63 2 524-1078, +63 2 567-2057
Mobile No. +63922-8961541 Fax No. +63 2 526-0062
Southern Philippines Medical Center (SPMC)
+63 2 227-2731

Global Incident Response Hotline (24h) +1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science Division)

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.

Acute aquatic toxicity: Category 1
H400 Very toxic to aquatic life.

Chronic aquatic toxicity: 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.



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
1020000269082/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

Hazardous components which must be listed on the label:

- Tetraniliprole



Signal word: Warning

Hazard statements

H410	Very toxic to aquatic life with long lasting effects.
EUH208	Contains Tetraniliprole, 1,2-benzisothiazolin-3-one, reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Chemical nature

Suspension concentrate (=flowable concentrate)(SC)
Tetraniliprole 200 g/l

Hazardous components

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

Name	CAS-No. / EC-No. / REACH Reg. No.	Classification	Conc. [%]
		REGULATION (EC) No 1272/2008	
Tetraniliprole	1229654-66-3	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	18.2
1,2-Benzisothiazol-3(2H)-one	2634-33-5 01-2120761540-60-0003	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400	> 0.005 – < 0.05
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)	55965-84-9	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 2, H330 Skin Corr. 1C, H314 Eye Dam. 1, H318	> 0.0002 – < 0.0015



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
1020000269083/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

		Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
Sodium diisopropyl naphthalene sulphate	1322-93-6 01-2119969954-16-XXXX	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 STOT SE 3, H335	>= 1 - < 3
Glycerine	56-81-5 01-2119471987-18-XXXX	Not classified	> 1
1,2-Propanediol	57-55-6 01-2119456809-23-xxxx	Not classified	> 1

Further information

Tetraniliprole	1229654-66-3	M-Factor: 1 (acute), 100 (chronic)
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9	M-Factor: 100 (acute), 100 (chronic)

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

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.
Inhalation	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control center immediately.
Skin contact	Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.
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. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Do NOT induce vomiting. Call a physician or poison control center immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No symptoms known or expected.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. There is no specific antidote.



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

4/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Water spray, Carbon dioxide (CO₂), Foam, Sand

Unsuitable None known.

5.2 Special hazards arising from the substance or mixture In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Hydrogen fluoride, Carbon monoxide (CO), Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus.

Further information Contain the spread of the fire-fighting media. 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 Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

6.2 Environmental precautions Do not allow to get into surface water, drains and ground water.

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). Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

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 Use only in area provided with appropriate exhaust ventilation.

Hygiene measures Avoid contact with skin, eyes and clothing. Keep working clothes separately. Wash hands immediately after work, if necessary take a shower. Remove soiled clothing immediately and clean thoroughly before using again. Garments that cannot be cleaned must be destroyed (burnt).



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

5/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Store in a place accessible by authorized persons only. Keep away from direct sunlight.

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

Suitable materials HDPE (high density polyethylene)
Coex HDPE/EVOH/HDPE

7.3 Specific end use(s) Refer to the label and/or leaflet.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No known occupational limit values.

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
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

**YEOVAL SC200 20X100ML BOT PH**Version 2 / RP
1020000269086/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

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
Colour	white to beige
Odour	weak, characteristic
Odour Threshold	No data available
pH	4.0 - 5.0 (100 %) (23 °C)
Melting point/range	No data available
Boiling Point	No data available
Flash point	> 100 °C
Flammability	No data available
Auto-ignition temperature	440 °C
Self-accelerating decomposition temperature (SADT)	No data available
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapour pressure	No data available
Evaporation rate	No data available
Relative vapour density	No data available
Density	ca. 1.10 g/cm ³ (20 °C)
Water solubility	suspensive
Partition coefficient: n-octanol/water	Tetraniliprole: log Pow: 2.6
Viscosity, kinematic	No data available
Impact sensitivity	Not impact sensitive.
Oxidizing properties	No oxidizing properties
Explosivity	Not explosive 92/69/EEC, A.14 / OECD 113
9.2 Other information	Further safety related physical-chemical data are not known.



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

7/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Thermal decomposition Stable under normal conditions.

10.2 Chemical stability Stable under recommended storage conditions.

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

Acute oral toxicity LD50 (Rat) > 2,000 mg/kg

Acute inhalation toxicity LC50 (Rat) > 4.5 mg/l
Exposure time: 4 h
Determined in the form of a respirable aerosol.
Highest attainable concentration.

Acute dermal toxicity LD50 (Rat) > 2,000 mg/kg

Skin corrosion/irritation No skin irritation (Rabbit)

Serious eye damage/eye irritation No eye irritation (Rabbit)

Respiratory or skin sensitisation Non-sensitizing. (Mouse)
OECD Test Guideline 429, local lymph node assay (LLNA)

Assessment STOT Specific target organ toxicity – single exposure

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

Assessment STOT Specific target organ toxicity – repeated exposure

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

Assessment mutagenicity

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

Assessment carcinogenicity

Tetraniliprole caused a slight increase in the incidence of uterine tumors in the rat lifetime feeding study, but only at a dose level in excess of a limit dose of 1000 mg/kg body weight/day. Humans are highly unlikely to be exposed to such high levels of tetraniliprole.

Assessment toxicity to reproduction

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

**YEOVAL SC200 20X100ML BOT PH**Version 2 / RP
1020000269088/11
Revision Date: 21.01.2020
Print Date: 24.01.2022**Assessment developmental toxicity**

Tetraniliprole did not cause developmental toxicity in rats and rabbits.

Aspiration hazard

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

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Toxicity to fish** LC50 (Oncorhynchus mykiss (rainbow trout)) > 541 mg/l
Exposure time: 96 h**Toxicity to aquatic invertebrates** EC50 (Daphnia magna (Water flea)) 0.382 mg/l
Exposure time: 48 h**Toxicity to aquatic plants** IC50 (Raphidocelis subcapitata (freshwater green alga)) > 541 mg/l
Growth rate; Exposure time: 72 h**12.2 Persistence and degradability****Biodegradability** Tetraniliprole:
Not rapidly biodegradable**Koc** Tetraniliprole: Koc: 195 - 252**12.3 Bioaccumulative potential****Bioaccumulation** Tetraniliprole:
Does not bioaccumulate.**12.4 Mobility in soil****Mobility in soil** Tetraniliprole: Moderately mobile in soils**12.5 Results of PBT and vPvB assessment****PBT and vPvB assessment** Tetraniliprole: 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 Other adverse effects****Additional ecological information** No other effects to be mentioned.**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product** In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

9/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

Contaminated packaging Triple rinse containers.
Do not re-use empty containers.
Not completely emptied packagings should be disposed of as hazardous waste.

Waste Key In accordance with Section 2.0 - Classification of Hazardous Waste (DENR administrative order 2013-22 as amended):

J201 - Containers previously containing toxic chemical substances
M504 - Pesticides

SECTION 14: TRANSPORT INFORMATION

ADR/RID/ADN

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRANILIPROLE SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90

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

IMDG

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRANILIPROLE SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3082
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TETRANILIPROLE SOLUTION)
14.3 Transport hazard class(es)	9
14.4 Packaging Group	III
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 Annex II of MARPOL and the IBC Code
No transport in bulk according to the IBC Code.



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

10/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

SECTION 15: REGULATORY INFORMATION

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

Further information

WHO-classification: III (Slightly hazardous)

Labelling According to Fertilizer and Pesticide Authority
Pesticide Regulatory Policies and Implementing Guidelines 2nd Edition
Classification of Pesticides Based on Toxicity and Hazard

SECTION 16: OTHER INFORMATION

Text of the hazard statements mentioned in Section 3

H301	Toxic if swallowed.
H302	Działa szkodliwie po połknięciu.
H310	Fatal in contact with skin.
H312	Działa szkodliwie w kontakcie ze skórą.
H314	Causes severe skin burns and eye damage.
H315	Działa drażniąco na skórę.
H317	Może powodować reakcję alergiczną skóry.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H332	Działa szkodliwie w następstwie wdychania.
H335	May cause respiratory irritation.
H361d	Podejrzewa się, że działa szkodliwie na dziecko w łonie matki.
H373	Może powodować uszkodzenie narządów poprzez długotrwałe lub narażenie powtarzane.
H400	Działa bardzo toksycznie na organizmy wodne.
H410	Działa bardzo toksycznie na organizmy wodne, powodując długotrwałe skutki.

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
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)
ICx	Inhibition concentration to x %
IMDG	International Maritime Dangerous Goods
LCx	Lethal concentration to x %



YEOVAL SC200 20X100ML BOT PH

Version 2 / RP
102000026908

11/11
Revision Date: 21.01.2020
Print Date: 24.01.2022

LDx	Lethal dose to x %
LOEC/LOEL	Lowest observed effect concentration/level
MARPOL	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
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) 2015/830 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 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.

Reason for Revision: The following sections have been revised: Section 2: Hazards Identification. Section 3: Composition / Information on Ingredients.

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