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# **KOTHRINE WG25 120X(10X2)G BAG IN**

Version 1 / IND Revision Date: 11.01.2023 102000031938 Print Date: 11.01.2023

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

1.1 Product identifier

Trade name KOTHRINE WG25 120X(10X2)G BAG IN

Product code (UVP) 84462713

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

**Supplier** Bayer CropScience Limited

Bayer House, Central Avenue

Hiranandani Estate 400607 Thane (W) Maharashtra

India

**Telephone** +91-22-25311826 / 25311234

**Telefax** +91-22-25455116

1.4 Emergency telephone no.

Indian Emergency Number 022-25311885 (24 hours/day)

**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 toxicity: Category 4

H332 Harmful if inhaled.

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.



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Hazard label for supply/use required.

### Hazardous components which must be listed on the label:

Deltamethrin





# Signal word: Warning Hazard statements

H332 Harmful if inhaled.

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.

### **Precautionary statements**

P261 Avoid breathing dust, mist, spray. P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container in accordance with local regulation.

#### 2.3 Other hazards

Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). May form explosible dust-air mixture if dispersed.

Deltamethrin: 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

### **Chemical nature**

Water dispersible granules (WG) Deltamethrin 25% w/w

### **Hazardous components**

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



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Name	CAS-No. / EC-No. / REACH Reg. No.	Classification REGULATION (EC) No 1272/2008	Conc. [%]
Deltamethrin	52918-63-5	Acute Tox. 3, H301 Acute Tox. 3, H331 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	25
Alkylnaphthalenesulfonic acid, polymer with formaldehyde, sodium salt	68425-94-5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412	>= 10 - < 20
Aromatic hydrocarbons, C10-13, reaction products with branched nonene, sulfonated, sodium salts	1258274-08-6 01-2119980591-31-xxxx	Skin Irrit. 2, H315 Eye Dam. 1, H318	>= 3 - < 10
Citric acid	77-92-9 01-2119457026-42-XXXX	Eye Irrit. 2, H319 STOT SE 3, H335	>= 1 - < 10

#### **Further information**

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** Immediately wash with plenty of soap and water for at least 15

minutes. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. In case of skin irritation, application of oils or lotions containing vitamin E may

be considered. 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. Warm water may increase the subjective severity of the irritation/paresthesia. This is not a sign of systemic poisoning. Apply soothing eye drops, if needed anaesthetic eye drops. Get medical attention if irritation develops and persists.

**Ingestion** Rinse out mouth and give water in small sips to drink. Do NOT induce

vomiting. If swallowed, seek medical advice immediately and show this

container or label.

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

Symptoms Local:, Skin and eye paraesthesia which may be severe, Usually

transient with resolution within 24 hours, Skin, eye and mucous

membrane irritation, Cough, sneezing



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Systemic:, discomfort in the chest, tachycardia, hypotension, Nausea, Abdominal pain, Diarrhoea, Vomiting, Blurred vision, Headache, Anorexia, Somnolence, Coma, Convulsions, Tremors, Prostration, Airway hyperreaction, Pulmonary oedema, Palpitation, Muscular fasciculation, Apathy, Dizziness

4.3 Indication of any immediate medical attention and special treatment needed

Risks This product contains a pyrethroid. Pyrethroid poisoning should not be

confused with carbamate or organophosphate poisoning.

**Treatment** Systemic treatment: Initial treatment: symptomatic. Monitor: respiratory

and cardiac functions. 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. Keep respiratory tract clear. Oxygen or

artificial respiration if needed. In case of convulsions, a

benzodiazepine (e.g. diazepam) should be given according to standard

regimens. If not effective, phenobarbital may be used.

Contraindication: atropine. Contraindication: derivatives of adrenaline. There is no specific antidote. Recovery is spontaneous and without

sequelae.

#### **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

Hazchem Code 2Z

5.2 Special hazards arising from the substance or

mixture

In the event of fire the following may be released:, Hydrogen bromide (HBr), Carbon dioxide (CO2), Carbon monoxide, Nitrogen oxides

(NOx), Sulphur oxides

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 dust formation. Avoid contact with spilled product or

contaminated surfaces. Use personal protective equipment. Remove

all sources of ignition.

6.2 Environmental precautions

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



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### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up Use mechanical handling equipment. Clean contaminated floors and

objects thoroughly, observing environmental regulations. Collect and

transfer the product into a properly labelled and tightly closed

container.

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 Avoid dust formation. Use only in area provided with appropriate

exhaust ventilation.

Advice on protection

against fire and explosion

Dust may form explosive mixture in air. Keep away from heat and sources of ignition. Take measures to prevent the build up of

electrostatic charge.

**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 a place accessible by authorized persons only. Keep away from direct sunlight. Keep containers tightly closed in a dry, cool and well-

ventilated place.

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

Suitable materials Polypropylene-foil (PP)

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
Deltamethrin	52918-63-5	0.01 mg/m3		OES BCS*
		(TWA)		

<sup>\*</sup>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.



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**Respiratory protection** Wear respirator with a particle filter mask (protection factor 10)

conforming to European Norm EN149FFP2 or EN140P2 or

equivalent.

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 5 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.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### 9.1 Information on basic physical and chemical properties

**Form** water-dispersible granules

**Colour** beige

Odour weak, characteristic
Odour Threshold No data available
Melting point/range No data available
Boiling Point No data available

**Flammability** The product is not highly flammable.

Upper explosion limitNo data availableLower explosion limitNo data availableFlash pointNo data availableAuto-ignition temperatureNo data available



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Ignition temperature $268 \, ^{\circ}\text{C}$ Minimum ignition energy> 1 J

Self-accelarating decomposition temperature

(SADT)

No data available

**pH** 2.0 - 4.0 (1 %) (23 °C) (deionized water)

Viscosity, dynamicNo data availableViscosity, kinematicNo data available

Water solubility dispersible

Partition coefficient: n-

octanol/water

Partition coefficient: n-

octanol/water

Deltamethrin: log Pow: 6.4 (25 °C)

Vapour pressureNo data availableDensityNo data availableRelative densityNo data available

**Bulk density** 0.75 - 1.00 g/ml (loose)

Relative vapour density No data available

Assessment nano particles This substance/ mixture does not contain nanoforms

9.2 Other information

**Explosivity** Not explosive

Burning number 2

CN2 Short flaring without spreading (22 °C)

2

CN2 Short flaring without spreading (100 °C)

Oxidizing properties No oxidizing properties

**Evaporation rate** No data available

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.



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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.

No decomposition products expected under normal conditions of use. 10.6 Hazardous

decomposition products

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

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

Acute oral toxicity LD50 (Rat) > 3,465 mg/kg

Acute inhalation toxicity LC50 (Rat) 1.474 - 4.062 mg/l

Exposure time: 4 h

Determined in the form of a respirable aerosol.

**Acute dermal toxicity** LD50 (Rat) > 2,090 mg/kg

Skin corrosion/irritation Slight irritant effect - does not require labelling. (Rabbit) Slight irritant effect - does not require labelling. (Rabbit)

Serious eye damage/eye

irritation

Respiratory or skin Non-sensitizing. (Guinea pig)

sensitisation OECD Test Guideline 406, Buehler test

### Assessment STOT Specific target organ toxicity - single exposure

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

#### Assessment STOT Specific target organ toxicity - repeated exposure

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient neurobehavioral effects typical for pyrethroid neurotoxicity.

### Assessment mutagenicity

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

#### Assessment carcinogenicity

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

### Assessment toxicity to reproduction

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

### Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.

#### Aspiration hazard

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

#### **Further information**



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Cutaneous sensations may occur, such as burning or stinging on the face and mucosae. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours). The toxicological data refer to a similar formulation.

#### 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 (Lepomis macrochirus (Bluegill sunfish)) 1.9 mg/l

Exposure time: 96 h

Test conducted with a similar formulation.

EC50 (Daphnia magna (Water flea)) 0.00018 mg/l

Toxicity to aquatic invertebrates

Exposure time: 48 h

Test conducted with a similar formulation.

Toxicity to aquatic plants EC50 (Raphidocelis subcapitata (freshwater green alga)) 41.7 mg/l

Exposure time: 72 h

Test conducted with a similar formulation.

12.2 Persistence and degradability

**Biodegradability** Deltamethrin:

Not rapidly biodegradable

Deltamethrin: Koc: 10240000 Koc

12.3 Bioaccumulative potential

**Bioaccumulation** Deltamethrin: Bioconcentration factor (BCF) 1,400

Does not bioaccumulate.

12.4 Mobility in soil

Mobility in soil Deltamethrin: Immobile in soil

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment Deltamethrin: 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



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Additional ecological

information

No further ecological information is available.

### **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.

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.

Never place unused product down any indoor or outdoor drain.

**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.

**Contaminated packaging** Triple rinse containers.

Do not re-use empty containers.

Not completely emptied packagings should be disposed of as

hazardous waste.

### Legal basis

Waste key in accordance with Schedule I of the Hazardous Waste Rules, 2008 as amended (India - EP Act):

29.1Process wastes/residues

29.3Date-expired and off-specification pesticides

#### **SECTION 14: TRANSPORT INFORMATION**

### ADR/RID/ADN

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DELTAMETHRIN MIXTURE)

14.3 Transport hazard class(es)
14.4 Packaging Group
11.5 Environm. Hazardous Mark
Hazard no.
Hazchem Code
Tunnel Code
9
9
2
7

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 3077

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DELTAMETHRIN MIXTURE)



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14.3 Transport hazard class(es)
14.4 Packaging Group
14.5 Marine pollutant
YES

**IATA** 

14.1 UN number **3077** 

14.2 Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(DELTAMETHRIN MIXTURE)

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.

#### **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)

### Labeling according to Insecticide Rules 1971 as amended. (INDIA)



Class III: Moderately toxic

Colour: bright blue

Danger!

Keep out of the reach of children.

### **SECTION 16: OTHER INFORMATION**

#### Text of the hazard statements mentioned in Section 3

H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Abbreviations and acronyms



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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) Inhibition concentration to x %

IMDG International Maritime Dangerous Goods

LCx Lethal concentration to x %

LDx Lethal dose to x %

**IC**x

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

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 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.