Material Safety Data Sheet

Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals
Prepared in accordance with the Official Gazette numbered 23.06.2017- 30105.

LAROXYFEN PLUS WT

Preparation Date: 20.10.2021 **Revision Date: 11.04.2025**
Revision Number: 1 **MSDS No: ZD.SDS :894**

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/OWNER

1.1 PRODUCT INFORMATION: Insecticide
1.2 PRODUCT NAME: LAROXYFEN PLUS WT

1.3 COMPANY NAME-ADDRESS

COMPANY NAME: ERKAN KIMYA – ÇAĞLAR ERKAN
ADDRESS: İslice Mah. 1. Vidinli Sok. No:3/301 UŞAK
Tel: 0554 376 28 36

1.4 MANUFACTURER COMPANY NAME-ADDRESS

COMPANY NAME: KULSAN İLAÇ TOHUMCULUK ZİRAAT SANAYİ VE TİC. LTD. STI
ADDRESS: Balıklıçeşme Village OSB Mevkii Lacivert Cad.No:19 17200 Biga / ÇANAKKALE
Tel :+90 286 324 30 55
Fax :+90 286 324 30 56
Web: www.kulsanilac.com
Email: kulsan@kulsanilac.com

1.5 INFORMATION ABOUT SAFETY: Çağlar ERKAN

1.6 EMERGENCY TELEPHONE: In case of poisoning, call the national poison center **(UZEM) 114** Call the phone no .

EMERGENCY FIRST AID CENTER: 112
FIRE : 110

2. HAZARDS IDENTIFICATION

2.1 Physical Hazard: There is no physical hazard.

Hazard to Health: Skin Irrit.2 H315 Eye Damage1 H318

Environmental Hazard: Aquatic Chronic 2 H411

2.2 Label Elements:

According to the SEA Regulation;

Hazard Signs :



GHS09 GHS05 GHS07

Word of Warning: Danger

Hazard Statements:

H315: Skin to the irritation path opens .
H318: Serious eyelash to the damage path opens .
H411: Aquatic in the environment LONG duration persistent , toxic effect .

Precautionary Statements:

P264: Without handling later water and soap with thoroughly wash .
P273: To the environment from giving avoid .
P280: Protective gloves / protective outfit / eye protector / face protector use .
P302 + P352: IF ON SKIN: Abundant soap and water with wash .
P305 + P351 + P338: IF IN EYES: With water a few minute carefully rinse . Plugged in and made if easy , contact lenses remove . to rinse continue please .
P310: Immediately call the NATIONAL POISON CENTER 114 or doctor / physician call .
P332 + P313: In skin irritation promise subject if : Medical help / intervention get it .
P362: Contaminated your clothes remove and restart without using before wash .
P391: Rashes collect .
P501: Contents / container Waste Management to the Regulation suitable aspect disposal please .

Additional warnings: Risk, safety definition sentences and hazard and precautionary statements related to the subject are given in the 16th section.

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3. INFORMATION ON THE CONTENTS OF THE COMPOSITION

Chemical identification : Mixture

- **Dangerous substances it contains** :

Substance or Compound	EC NO	CAS NO	Contents % (AA)	Classification (SEA Regulation)
Pyriproxyfen	429-800-1	95737-68-1	≤2	aquatic acute 1 H400 aquatic Chronic H410
sodium dodecyl sulphate	205-788-1	151-21-3	<12	Acute Tok.4 H302 Skin Irrit.2 H315 Eye Damage.1 H318 Aquatic Chronic 3 H412

4. FIRST AID MEASURES

General Symptoms : Any One case doctorate apply more Good happens . consciousness in place non- to the person oral any One article don't give .

Inhalation : Exposure remainder person immediately clean into the air remove . mouth and nose thoroughly wash . Any One your ailment more in case of doctor contact .

Skin contact: Without Handling later water and soap with thoroughly wash . Contaminated all your clothes immediately remove / remove . your skin water / shower with rinse . in the skin irritation promise subject if : Medical help / intervention get it .

Eye contact: If you have contact lenses eyes without washing before they should be removed . Eyelash their covers by separating eyes immediately plenty with water wash . Most less than 15 minutes to rinse continue please . after washing later your symptoms head to show in case of immediately doctorate contact .

Ingestion : Do not induce vomiting . consciousness in place non- One to anyone Definitely liquid One thing don't give casualty immediately exposure from the region Another One to the ground take it . mouth and nose thoroughly wash . Doctorate contact

Antidote : Specific One antidote there is no . symptomatic treatment applied .

5. FIRE FIGHTING MEASURES

5.1 Fire extinguishers

Suitable extinguisher Substances ; water spray , dry chemical dust , carbon dioxide use . Big in fires This spray or to alcohol resistant foam use .

Suitable Non extinguisher Substances ; water jet .

5.2 From the product Caused Special Damages : Incomplete combustion carbon monoxide to the formation reason happens . Combustion during harmful and toxic gases may occur . Wind towards remainder employee evacuation should be done .

5.3 Fire Extinguishing Teams For Protector Equipment

Fire in the case of oxygen scuba complete mask use . product fire from the region remove , also pots of water with cool , heat because of may occur pressure block . If if possible fire their waters fire juice collection in their pools Annual or with earth control under hold on to the environment to the spread obstacle be . with fire struggle during officer employee respiratory device and chemical protector clothes should use . Fire onsite packaging This with you cool . Staff trustworthy to the field remove . redundantly more fire extinguisher using the environment from polluting avoid .

with fire struggle leftovers sewer and ground six into the waters to reach permission should not be given .

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Protective Measures

Keep people away from spilled material. Avoid contact with spilled product or contaminated surface. If spilled , do not eat, drink or breathe fumes.

6.2 Environmental Precautions

Avoid mixing with sewers/surface water/ground water. In case of mixing with waters or sewers, inform the competent authorities.

6.3 Collection and Cleaning Processes

Store the waste in closed containers suitable for these works.

Let it absorb with an absorbent material (sand, silica gel, sawdust, etc.) that will not react with the product . Store these materials in leakproof containers and dispose of them according to local regulations.

Clean contaminated objects and floors with plenty of water.

6. 4 References to Other Sections

Prevent washing water from mixing with water mains. In case of interference, notify the relevant authorities immediately. It is toxic to fish and other aquatic organisms as it contains pyrethroids .

7. HANDLING AND STORAGE

7.1 Handling

Protective measures for safe handling of the substance/preparation

Avoid contact with skin and eyes. Use only in well ventilated areas. Do not deal with damaged packages without using protective equipment . Careful personal hygiene is required. Wash hands and contaminated areas before leaving the workplace. Avoid any possibility of ignition. Avoid eating, drinking or smoking while using the product. The container must be tightly closed. Protect from direct sunlight.

Technical Measures for Environmental Protection:

Prevent it from entering the sewer / surface water / groundwater. In case of mixing into waters or sewers, notify the authorized official authorities and inform the authorities. Make sure the environment is well ventilated. Keep away from sources of ignition and heat.

fire fighting equipment ready.

7.2 Conditions for Safe Storage, including any Incompatibilities:

direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feed. Store at 25ºC ± 2ºC out of the reach of children.

7.3 Specific End Uses

There are no special limitations when used correctly. Skin and eye contact should be avoided during the entire working process. Prevent its spread to the environment.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No information available.

8.2 Exposure Controls

8.2.1 Engineering Measures Equipment and appropriate protection methods to be used in places where personal protection is required are defined in accordance with the "Personal Protective Equipment Regulation" dated 9.2.2004 and numbered 25368. Be sure to use personal protective equipment in accordance with the relevant regulation. Keep away from foodstuffs, beverages and animal feeds. Take off contaminated clothing immediately. Wash your hands immediately at the end of work or when taking a break from work. Avoid direct contact of the product with eyes and skin during manufacturing. Do not eat or drink any food while using this substance. Do not smoke.

8.2.2 Personal Protective Equipment

Respiratory Protection: Does not require special precautions, but do not breathe vapors and if there is a risk of inhalation of high concentrations, use suitable respiratory protective equipment .

Eye / Face Protection: It does not require special precautions, but if there is a risk of direct contact with the eyes, use appropriate protective glasses.

Skin Protection: No special precautions required. It is recommended to wear protective clothing and boots made of non-slip material during the production phase.

Hand Protection: It does not require special precautions, but if there is a risk of prolonged and repeated exposure , use suitable protective gloves to avoid sensitization.

Thermal Damages: No data available.

8.2.3 Environmental Exposure Control

Work in accordance with the instructions to avoid effects on humans and the environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic Physical and Chemical Features About Information	
Appearance	WATER SOLUBLE TABLET (WT)
Smell	Characteristic
Colour	white
9.2 Other Informations	
Intensity	Data there is no
Flare point	Data there is no
Boiling point	Data there is no
Explosion danger	Data there is no
viscosity	Data there is no
Solubility (Water / Alcohol / Oil in)	Data there is no
Steam pressure	Data there is no
Distribution Coefficient (n- octanol / water)	Data there is no
pH value	6.2 ± 1 (at 20C)
Tablet integrity	No Broken Tablet
Melting point	Data there is no
Flammability	Data there is no
Permanent foaming	Max. 60 ml
Wet sieve test	Max 5% residue on 75 µm sieve
Wear resistance	Max. 5% wear
suspended likelihood	Min: 60% (30 min. after mixing) later)
thaw the time	Maximum 15 min.

10. STABILITY AND REACTIVITY

10.1 Reactivity : No hazardous reactions in proper storage and use .

10.2 Chemical Stability: Stable .

10.3 Possibility of Hazardous Reactions: No hazardous reactions are expected under the anticipated conditions of use and storage.

10.4 Conditions to avoid: Keep away from open flames, sparks and sources of ignition. Do not expose to high temperature and direct sunlight.

10.5 Incompatible materials: Strong acids and strong alkalis

10.6 Hazardous Decomposition Products: Toxic and irritating fumes may be produced by combustion and thermal decomposition .

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxic effects

- **Acute toxicity :**

Article or compound	LD50 Oral values	LD50 dermal	LC 50 Inhalation
Pyriproxyfen	Acute Oral (Rat) > 5000 mg/kg	>2000 mg/kg	>2.15 mg/l rat

- **Eye Irritation :** Causes serious eye damage.
- **Skin Irritation:** Causes skin irritation.
- **Sensitizing Effect:** No sensitizing effect.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity :

Pyriproxyfen
Bird for Toxicity : Acute Oral LD50 (Mallard duck): >2.000mg/kg Acute Oral LD50 (bobwhite quail): >2.000mg/kg diet LD50 (mallard duck): >5200ppm Diet LD50 (bobwhite quail): >5,200ppm Reproduction (mallard duck): NOEC = 600ppm Reproduction (bobwhite quail): NOEC = 600ppm Fish for Toxicity Bluegill Sunfish 96 hour LC50: >270µg/L Rainbow trout 96 hour LC50: >325µg/L Rainbow Trout 21 days LC50: 90µg/L for daphnia Toxicity : EC50 (48 hours) 0.40mg/l. Moss Toxicity (72 hours):

Selenastrum capricornutum for LC 50 0.064mg/l. Honey bee : Communication LC50 >100µg/ bee

12.2 Persistence and Degradability : Persistence and Degradability do not apply.

12.3 Bioaccumulative Potential: No data on bioaccumulative potential.

12.4 Mobility in Soil: No data available.

12.5 PBT and vPvB assessment: No data available.

12.6 Other adverse effects: None.

13. DISPOSAL INFORMATION

13.1 Waste Treatment Methods:

Waste identification numbers/waste descriptions should be collected specifically for each industry class and process in accordance with local legislation, in line with the regulation on the general principles of proper disposal/product waste management and the regulation on control of hazardous wastes.

14. TRANSPORTATION

ADR/RID

14.1 UN Number: Not available

14.2 UN Proper Shipping Name: Not available.

14.3 Transport Hazard Class(es): Not available

14.4 Packing Group: Not available

IMDG/IMO

14.5 UN number Not available

14.6 Packing group Not available

14.7 Class Not available

ICAO/IATA

14.9 UN number Not available

14.10 Packing group Not available

14.11 Class Not available

15. REGULATORY INFORMATION

15.1 Specific safety, health and environmental legislation for the substance or mixture:

Relevant regulations;

- Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals 23.06.2017- Official Gazette No. 30105)
- LABELING AND PACKAGING OF SUBSTANCES AND MIXTURES (Official Gazette No. 28848), Wednesday, 11 December 2013
- Regulation on the Transport of Dangerous Goods by Road (RG24/10/2013-28801)

15.2 Chemical Safety Assessment: No Chemical Safety Assessment has been carried out.

16. OTHER INFORMATION

16.1 Statement of changes: first edit
Update Date: -

16.2 Abbreviations and short names:
SDS: Safety Data Sheet
CAS: Service registration number of chemicals
EINECS: European Inventory of Chemical Substances
SEA: Regulation on Classification, Labeling and Packaging of Substances and Mixtures published RG.-11/12/2013-28848
CLP: Published in EU No. 1272/2008 < Classification , Labeling and Packaging of Substances and Mixtures > directive
TWA: time-weighted average measured or calculated for a specified reference period of 8 hours

The upper limit value for exposure that should not be exceeded for a period of 15 minutes, unless another time is specified .
Mg/m3: at 20°C and 101.3 KPa . The amount of substance in milligrams in 1 m3 air at pressure (760 mm mercury pressure)
ppm : Amount in milliliters of the substance in 1 m3 air (ml/m3)
NIOSH: The national Institute for Occupational safety and Health / US National Institute of Occupational Health and Safety CEN: Comite Europeen de Normalization / European Committee for Standardization
NTP: (National Toxicology Program) National Toxicology Program
IARC: (The International Agency for Research on Cancer) International Agency for Research on Cancer
OSHA: (Occupational safety and health Association) Occupational health and safety association
EWC : (European Waste Catalog) European Union Waste Catalog
ADR: Transport of Dangerous Goods
RID: Transport of dangerous goods by rail
ADNR: Regulation on Carriage of Dangerous Goods in Rivers
IMDG: Training and authorization regulation within the scope of the international code on dangerous goods transported by sea
ICAO: International Civil Aviation Organization
IATA: International Air Transport

16.3 Key literature references and sources of information

- ✓ The key sources of information used in the editing of this safety data sheet are as follows
- ✓ Data sheets for raw materials and product components
- ✓ Regulations and annexes on the preparation and distribution of safety data sheets for dangerous substances and preparations
- ✓ ' Regulation on the Preparation of Safety Data Sheets for Hazardous Substances and Mixtures (Official Gazette 13.12.2014 - 29204) and its annexes
- ✓ UN ADR,IMDG ,IATA LISTS
- ✓ ECHA and related EU directives, IUCLID (INTERNATIONAL CHEMICAL DATA INFORMATION LEGISLATION), HSDB (DANGEROUS GOODS DATA BANK)

16.4 Classification and method/ procedure used for classification of mixtures : In accordance with the Regulation on Classification, Labeling and Packaging of Substances and Mixtures (OJ: 11.12.2013, 28848 Op .)

Aquatic Chronic - Category 2- H411 - Calculation method
Eye Damage - Category 1- H318- Calculation method
Skin Irritation- Category-2-H315- Calculation method

16. 5 Full text of H-Statements based on sections 2 and 3.

H400: Very toxic to aquatic life .
toxic to aquatic life with long lasting effects.
H315: Causes skin irritation.
H302: Harmful if swallowed.
H318: Causes serious eye damage.
H412: Harmful to aquatic life with long lasting effects.

16.6 Other information:

s) certified in accordance with the regulation, using the safety data sheets provided by the manufacturer .

Prepared by Person

First Name Surname : Zeynep DİLEK
Communication Information : zeynep-dilek@outlook.com
Document No: TÜV/11.14.02 - Chemical Evaluation Specialist

Other informations

Usage and application information are given in the technical leaflets of the products . The details are based on the information we have today and do not express any assurance about the product quality, and any act on the subject cannot be cited as a reason. This Safety Data Sheet for **LAROXYFEN PLUS WT product;** Prepared on behalf of **ERKAN KIMYA – ÇAĞLAR ERKAN .**