Material Safety Data Sheet

According to "Regulation on preparation of safety data sheets on hazardous substances and mixtures (Official Gazette No: 23.06.2017- 30105)

AYDIN KİMYA

TITAN PRO SC

Preparation Date: 07.05.2024 **Revision Date : 30.01.2025**
MSDS No: ET.GBF:183 **Revision Number : 1**

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

1.1 Substance/Mixture identity

Product name: TITAN PRO

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

Identified uses: Insecticide

1.3 Information of the supplier of the Safety Data Sheet

Supplier and Manufacturer Company:
AYDIN KIMYA İLAÇ TOHUMCULUK ZİRAAT SANAYİ VE TİCARET LTD STİ
ADDRESS: Balıklıçeşme Köyü OSB Mevkii Lacivert Caddesi No:19 17200 Biga/ÇANAKKALE
Phone: 0 (286) 324 30 55

Person providing information about security: Hasan KULA

1.4 Emergency telephone number

In case of poisoning, if necessary, call the National Poison Center **(UZEM) 114** Please call the phone number .
National emergency number: 112
Fire Department: 110

2. IDENTIFICATION OF HAZARDS

2.1 Classification of the substance or mixture

Physical Hazard:

The mixture has no physical hazard.

Health Hazard:

Inhalation in It is harmful . Serious eyelash to the damage path opens

Danger to the Environment:

-

2.2 Label Elements:

Labeling Elements according to the SEA Regulation;

Signs of Harm :

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GHS07

Warning Statement: Danger

Hazard Statements:

H332: Inhalation in is harmful .
H318: Serious eyelash to the damage path opens
H410: Aquatic in the environment LONG duration permanent , very toxic effect .

Precautionary Statements:
P264 Without Handling later This And soap with thoroughly wash .
P270 This product while using no thing do not eat or drink or cigarette do not drink .
P321 Special intervention required (tag see)
P330 Keep your mouth shut shake .
P280 Protector gloves / protective clothes / eyes protective / face protector use .
P312 Yourself Good If you do not feel it , CALL THE NATIONAL POISON CONSULTATION CENTER AT 114 or doctor / physician call .
P361 Contaminated all your clothes immediately remove / remove .
P363 Contaminated your clothes again without using before wash .
P261 Avoid dust / fume / gas / mist / vapour / spray from breathing avoid .
P271 Only outside or Good ventilated One in the field use .
P311 NATIONAL POISON CONSULTATION CENTER PHONE NUMBER 114 or doctor / physician call .
P403 + P233 good ventilated One in the field your storage container firmly closed hold on .
P405 Lock under save .
P273: To the environment from being given avoid .
P391: Rashes collect .
P501: Contents / container local to the regulation suitable aspect disposal please .

2.3 Other damages

This product does not contain any substances classified as PBT or vPvB .

3. COMPOSITION/INFORMATION ABOUT INGREDIENTS

3.1 Clauses : Not applicable .

3.2 Mixtures

Substance or Compound	EC NO	CAS NO	Contents ,% (m/n)	Classification (SEA Regulation)
Deltamethrin	258-256-6	52918-63-5	5%	Acute Tox.3* H331 Acute Tox.3* H301 Aquatic Acute 1 H400 Aquatic Chronic H410 M=1000000
Nonylphenol ethoxylate propoxylate	931-427-9	68891-11-2	<4	Aquatic Chronic 4 H413
Poly(oxy-1,2-ethanediyl), .alpha.-[4-(1-phenylethyl)phenyl]-.omega.- hydroxy - (9EO)	608-713-4	32171-27-0	≤4	Aquatic Chronic 2 H411
Docusate sodium	209-406-4	577-11-7	<5	Skin Irr. 2 H315 Eye Sens. 1 H318
Sodium hydroxide	215-185-5	1310-73-2	<0.4	Skin Irr. 1A H314

4. FIRST AID MEASURES

4.1. First aid measures Description

Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If necessary, seek medical advice and show product label.

Skin: Remove contaminated clothing immediately and wash thoroughly with soap and plenty of water. In case of persistent irritation, seek medical advice showing the product label.

Ingestion: Rinse mouth with plenty of water. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Call the NATIONAL POISON CONSULTATION CENTER AT 114 or a doctor/physician.

Inhalation: Remove the victim to fresh air and keep in a comfortable position for easy breathing. In case of continuing irritation, consult a physician and show the product label.

4.2. Acute And later seen -most important symptoms And effects

To the product Belonging known One effect does not exist .

4.3 Urgent medical intervention And special treatment as required for signs

Specific One Antidote There is no symptomatic treatment is applied .

5. FIRE FIGHTING MEASURES

5.1 Fire Fire extinguishers

Suitable Fire Extinguishers : If product if it burns This spray , foam , dry dust , carbon dioxide or sand use .

Suitable Non Fire Extinguishers : Direct This DO NOT USE THE JET .

5.2 From the Product Originating from Special Damages : If heated dissolution if it happens dangerous gases may appear .

5.3 Fire Extinguishing Teams For Protector Equipment

Respiratory Equipment recruitment to do It is suitable . Immediately area evacuation danger . to the fire department news give . Breath apparatus including completely protector equipment wear . besieged containers pure This spray with should be cooled . All flow control under should be taken . If if possible and if there is no risk unspoilt canisters fire from the field pull . Otherwise in case unopened canisters cold stay for This with Spray . Possible is in case Grounded And sandy area fire extinguisher This with control under forehead .

6. ACCIDENTAL RELEASE PRECAUTIONS

6.1 Personal Protective Measures

contaminated surfaces or spilled materials. If simple contamination occurs on your clothes, remove them immediately. Do not eat or drink while dealing with the spill.

6.2 Environmental Precautions

Keep people and animals away. Cover drains and waterways. Disposal: Contaminated material should be disposed of in accordance with state or local regulations.

6.3 Collection and Cleaning Processes

Absorb spillage with sand/earth or suitable inert material. Transport collected material to heavy duty plastic drums and maintain safety for order. Wash the area with suitable equipment and solutions (soda and ethylene glycol etc.) and place the resulting solutions in a waste container.

References to Other Sections

Note: Before starting the cleaning process, review the Fire Fighting Precautions and Usage (Personal) sections.

7.HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling of the substance/preparation

Open Do not touch the packaging , do not touch the skin And to the eye do not touch . Spark , flame or hot surfaces DO NOT USE OR STORE next to . Only Good ventilated in the fields Use the container firmly closed Keep children away from unauthorized of persons And animals can reach from places far hold . After use later And One thing eat without drinking And cigarette without drinking before your hands your arms And your face This And with soap wash .

7.2 Conditions for Safe Storage, Including Disputes:

Store in its original packaging in a dry and ventilated environment at 25 ˚C ±2, away from sunlight and at room temperature with the lid closed. Keep away from food, feed, drinks and their containers. Store locked up, out of reach of children and pets.

7.3 Specific End Uses

The warehouse should be cleaned regularly, ventilation, temperature and humidity controls should be done regularly. All items should be kept closed in their original packaging when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Data There is no .

8.2 Exposed Stay Controls

8.2.1 **Suitable engineering controls** Personal protection necessary is in places to be used hardware And suitable protection methods dated 29.11.2006 numbered 26361 ' ' Personal Protector Hardware In accordance with the Regulation '' aspect defined. Related to the regulation suitable personal protector hardware when used , good And suitable One ventilation because it is sure be (especially closed in places)

8.2.2 Individual protector measures , such as personal protector equipment

Standard hygiene precautions Apply . Enough ventilation provide .

Respiratory protection Normally general Good One ventilation when provided necessary not . However if exposed stay limit if exceeded or respiratory on its way irritation if it occurs, use conditions suitable NIOSH approved as gas mask usage And chemical list Mentioned in Chapter 2 should have been .

(N 95 or more big organic steam cartridge recommended.)

Hand protection Chemical durable PVC or nitrile glove get dressed .

Eyelash Protection Glasses or not punctured side shields the one which... security glasses wear it .

Skin Protection Suitable protector clothes

8.2.3 Environmental Exposure Control

People And environment on it effects to prevent for , with instructions compatible work .

9.PHYSICAL AND CHEMICAL PROPERTIES

9.1 Basic Physically And Chemical Features About Information	
Appearance	Liquid
Smell	Data There is no .
Colour	From cream white transforming fluent concentrated
9.2 Other Information	
Relative Intensity	1.040 ±0.05 g/cm3
Flare Point	There is no data.
Boiling Point	There is no data.
Explosion The danger of	Data There is no .
Viscosity	Data There is no .
Solubility (Water/ Alcohol / Oil inside)	There is no data.
Steam The pressure	There is no data.
Distribution Coefficient (n- octanol / water)	There is no data.
pH value at 20 C	4.50-7.50
Melting point	There is no data
Oxidizing	There is no data
Flammable Features	Data There is no .
Flammability	Data There is no .
Suspension stability	(active substance) ≥ 60% after 30 min .
Spontaneously dispersion	(active substance) ≥ 60% after 5 min .
Permanent Foam	Max 60 ml, 1 min . After
Castability	Shaken in packaging remainder maximum 1% w/w
Wet sieve test	Maximum 2% w/w
Flowing Ability	Maximum 5% residue
Particle dimension distribution	D(0.5) : ≤6µ

10. STABILITY AND REACTIVITY

10.1 Reactivity: Stable. Avoid heating and fire.

10.2 Chemical Stability: Stable under normal ambient temperature and pressure.

10.3 Possibility of Hazardous Reactions: No data available.

10.4 Conditions to avoid: Protect the product from direct sunlight.

10.5 Substances to avoid: Very acidic or alkaline

10.6 Hazardous Decomposition Products: Not available.

11. TOXICOLOGICAL INFORMATION

11.1 toxicological effects: There is no test data for the product.

- **Acute toxicity :**

Article or compound	LD50 Oral values	LD50 dermal	LC 50 Inhalation
Deltamethrin	Acute Oral (Rat) > 50 mg/kg - 300 mg/kg bw	LD $_{50}$ (in rats) >2000 mg/kg bw Skin irritation not observed (Rabbit) Non-irritant to eye of rabbits	LC $_{50}$ (rats) 1,2790 mg/L

- **Eye Irritation :** Non-irritant to eye of rabbits
- **Skin Irritation:** Not classified.
- **Sensitizing Effect:** Not classified.

12.ECOLOGICAL INFORMATION

12.1 Toxicity : There is no test data for the product.

Deltamethrin

Acute Oral	• Fish, Poecilia reticulata: LC_{50} (96 h): 1.74 µg/l • Daphnia magna : LC_{50} (24 h) 4.15 µLg/l • Algae, Chlorella vulgaris: EC_{50}: 22.77 µg/ml • Bees, Apis indica: LD_{50}: 0.52 ppm • Earthworms, Lampito mauritii: LD_{50}: > 1000 mg/kg dry soil weight • Birds, Japanese Quails: LD_{50}: > 5000 ppm

12.2 Persistence and Degradability : Related Environmental In the environment , biological Decay Potential : No Information
Oxidation Or Hydrolysis Like Other With transactions Degradability Potential : No Information
To decompose Related Half Life Lifespan : No Information

12.3 Bioaccumulation Potential: The potential for the product to accumulate in the biological environment (biota): No Information
Foodborne potential of the product: No Information
Log Pow or BCF value: No information.

12.4 Mobility in soil: Mobility in soil: No information available.

12.5 Results of PBT and vPvB assessment: No data available.

12.6 Other adverse effects: None.

13. DISPOSAL INFORMATION

13.1 Waste Processing Methods:

the regulation on the general principles of proper disposal/product waste management and the regulation on the control of hazardous waste, waste identification numbers/waste descriptions must be collected in accordance with local legislation in a specific way for each industry class and process.

Ministry of Environment and Urbanization WASTE MANAGEMENT REGULATION published in the Official Gazette dated 02.04.2015 and numbered 29314;

06 13 01*	Inorganic plant protection products, wood preservatives and other biocides

14.TRANSPORTATION INFORMATION

ADR/RID/IMDG/IATA

14.1 UN Number : Not classified .

14.2 Proper UN Transportation Name : Not classified .

14.3 Transportation Harmfulness Class (es) : Not classified .

14.4 Packaging Group : Not classified .

14.5 Environmental Damages : Not classified .

14.6 User For Special Measures : Not classified .

14.7 MARPOL 73/78 ANNEX II and IBC code according to collective transportation Not classified .

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 (Official Gazette No. 30105, 23.06.2017)
- REGULATION ON CLASSIFICATION, LABELING AND PACKAGING OF SUBSTANCES AND MIXTURES (Official Gazette dated WEDNESDAY, 11 December 2013 and numbered 28848)

- Regulation on the Transport of Hazardous Goods by Road (RG24/10/2013-28801)

15.2 Chemical Safety Assessment: Chemical Safety Assessment has not been conducted.

16.OTHER INFORMATION

16.1 Indication of changes: -

Update Date: -

16.2 Abbreviations and acronyms:

SDS: Safety Data Sheet

CAS: Chemical substance service registration number

EINECS: European Inventory of Chemical Substances

SEA: Classification , labeling , packaging Regulation

CLP: Published in the EU No. 1272/2008 < Classification , Labelling and Packaging of Substances and Mixtures > directive

TWA: Time-weighted average measured or calculated for a specified reference period of 8 hours. exposure limit value that should not be exceeded for a 15-minute period unless otherwise specified . The amount of substance in milligrams in 1 m3 of air at 20°C and 101.3 KPa (760 mm of mercury pressure).

ppm : The amount of substance in 1 m3 of air in millilitres (ml/m3)

NIOSH: The National Institute for Occupational Safety and Health / US National Institute for Occupational Safety and Health CEN: Committee Europeen de Normalisation / 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 for occupational health and safety

EWC : (European Waste Catalogue) European Union Waste Catalogue

ADR: Dangerous The goods Highway with International To the transportation Related Europe Agreement

RID: Transport of hazardous materials by rail

IMDG: Regulation on training and authorization under the international code for dangerous goods transported by sea

IATA: International Air Transport

ICAO: International Civil Aviation Organization

LD50: Test animals 50% (half) death in the group From where the one which... article dose (Median Fatal LC50 : Test animals 50% (half) death in the group From where the one which... article concentration .

EC_{50}: 50% max. to the answer From where the one which... matter Effective Concentration .

PBT: Persistent , Bioaccumulative And Toxic article .

vPvB : Many Permanent , Very Bioaccumulative .

DNEL: Derived Effect Unseen Level

PNEC: Estimated Effect Unseen Concentration

16.3 Key literature references and sources of information

- ✓ The key information sources used in the preparation of this safety data sheet are as follows:
- ✓ Information forms for raw materials and product components
- ✓ Regulation and its annexes on the preparation and distribution of safety data sheets for hazardous substances and preparations
- ✓ UN ADR, IMDG, IATA LISTS
- ✓ ECHA and relevant EU directives

16.4 Classification and method/ procedure used for classification of mixtures : According to the Regulation on Classification, Labelling and Packaging of Substances and Mixtures (Official Gazette: 11.12.2013, 28848 Mük .)

Eyelash Damage 1 H318	Calculation method
Acute Tox.4 H332	Calculation method
Aquatic Chronic 1 410	Calculation method

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

H302: If swallowed in is harmful .
H331: Toxic if inhaled .
H301: Toxic if swallowed .
H314: Causes severe skin burns and eye damage.
H315: Causes skin irritation.
H332: Inhalation in is harmful .
H318: Serious eyelash to the damage path opens

H400: Very toxic to aquatic life .
toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.
H413: May cause long lasting harmful effects to aquatic life.

16.6 Other information:

persons in accordance with the regulation using the safety data sheets provided by the manufacturer . The SDS preparer cannot be held responsible for any material damages or moral losses that the product owner company may encounter due to the incorrect preparation of the prepared product safety data sheet and the missing or incorrect information and documents in this information. No changes can be made to this SDS without the knowledge and approval of the certificate holder or the

certificate information cannot be used for another SDS. Otherwise, the certificate holder will not accept any responsibility regarding the SDS.

Prepared by the Person

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Other Information

Usage and application information is given in the technical brochures of the products . Details are based on the information we have today and do not represent any assurance about the product quality, and no actual fact can be cited as a justification.**TITAN PRO SC** This Safety Data Sheet for the product has been prepared on behalf of **AYDIN KIMYA İLAÇ, TOHUMCULUK, ZİRAAT SAN. VE TİC. LTD. ŞTİ.**