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

1.1. Product identifier

PRODUCT NAME: 400 ML BOMTOX INSECTICIDE AEROSOL

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

| | |
|---|---|
| Identified uses | INSECTICIDE AEROSOL |
| Uses advised against | No specific uses advised against are identified. |

1.3. Details of the supplier of the safety data sheet

| | |
|---|---|
| Manufacturer | KOZMO KİMYA SAN. VE DIŞ. TİC.LTD.ŞTİ<br>Velimeşe Organize Sanayi Bölgesi<br>212. Sok. No :1/1<br>Ergene/TEKİRDAĞ<br>90 282 676 46 80<br>info@kozmokimya.com |
| Contact Person | production@kozmokimya.com |

1.4. Emergency telephone number

KOZMO KİMYA: +90 212 771 2211 (working hours)

## SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

| | |
|---|---|
| Classification | (EC 1272/2008) |
| Physical and Chemical Hazards | Flam. Aerosol 1; H222,H229<br>Gases under pressure;Liquefied gas |
| Human health | May cause skin reactions in rare cases. |
| Environment | Aqua.Acute Cat 1; H400 |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

Hazard Pictograms :

Signal Word Danger

## SECTION 2: HAZARDS IDENTIFICATION

Hazard Statements

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H410 | Very toxic to aquatic life with long lasting effects |

Precautionary Statements

| | |
|---|---|
| P102 . | Keep out of reach of children |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P211. | Do not spray on an open flame or other ignition source |
| P251 | Pressurized container: Do not pierce or burn, even after use. |
| P273 | Avoid release to the environment. |
| P391 | Collect spillage. |
| P410+403 | Protect from sunlight. Store in a well-ventilated place. |
| P410+412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F |
| P501 | Dispose of contents/container to regulation. |

2.3. Other hazards

This product does not contain any PBT or vPvB substances

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredients | CAS # | EC No | %by Weight | Hazard Statement Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] |
|---|---|---|---|---|
| Permethrin | 52645-53-1 | 258-067-9 | 0,20 | H302,H332,H317,H400,H410 |
| d-tetramethrin | 1166-46-7 | 214-619-0 | 0,20 | H302,H332,H400,H410 |
| Piperonyl Butoxide | 51-03-6 | 200-076-7 | 0,20 | H400,H410 |
| Solvent | 64742-48-9 | 265-150-3 | 34,40 | H226,H336i,H304 |
| Liquified Petroleum Gas (LPG) | 68476-85-7 | 270-704-2 | 65,00 | H220,H280 |

## SECTION 4- FIRST AID MEASURE

**4.1. Description of first aid measures**

**General information**
Move the exposed person to fresh air at once. Get medical attention if any discomfort continues

**Inhalation**
In case of inhalation of spray mist: Move person into fresh air and keep at rest. Provide rest, warmth and fresh air.
Get medical attention if any discomfort continues

**Ingestion**
Immediately rinse mouth and provide fresh air.

**Skin contact**
Get medical attention if any discomfort continues.

## SECTION 4- FIRST AID MEASURE

**Eye contact**
Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues

**4.2. Most important symptoms and effects, both acute and delayed**

**Inhalation**
Dizziness.

**Ingestion**
Nausea, vomiting.

**Skin contact**
No specific symptoms noted.

**Eye contact**
May cause temporary eye irritation

**4.3. Indication of any immediate medical attention and special treatment needed**
Treat Symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
Use: Powder. Dry chemicals, sand, dolomite etc.

Unsuitable extinguishing media
DO NOT use water if avoidable

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
Aerosol cans may explode in a fire.

Specific hazards
In case of fire, toxic gases may be formed. Carbon monoxide (CO). Carbon dioxide ($CO_2$).

5.3. Advice for firefighters

Special Fire Fighting Procedures
Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours. Avoid breathing fire vapours. Move container from fire area if it can be done without risk. Be aware of danger for fire to restart. Dike and collect extinguishing water.

Protective equipment for fire-fighters

Face mask, protective gloves and safety helmet. Self contained breathing apparatus and full protective clothing must be worn in case of fire

## SECTION 6- ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**
For personal protection, see section 8. Do not smoke, use open fire or other sources of ignition.

## SECTION 6- ACCIDENTAL RELEASE MEASURES

**6.2. Environmental precautions**
Avoid discharge into water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up**
Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Let evaporate. Keep out of confined spaces because of explosion risk. COLLECT

**6.4. Reference to other sections**
For personal protection, see section 8.
For waste disposal, see section 13.

## SECTION 7- HANDLING AND STORAGE

**7.1. Precautions for safe handling**
Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Do not eat, drink or smoke when using the product. Protect against direct sunlight

**7.2. Conditions for safe storage, including any incompatibilities**
Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep away from heat, sparks and open flame. Protect against physical damage and/or friction. Do not store near heat sources or expose to high temperatures.

**7.3. Specific end use(s)**
The identified uses for this product are detailed in Section 1.2

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## SECTION 8- EXPOSURE CONTROLS AND PERSONEL PROTECTION

**Hand protection**
Use protective gloves. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about th breakthrough time of the glove material.

**Eye protection**
Use eye protection.

**Hygiene measures**
DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke

**Skin protection**
Protection suit must be worn

**Engineering measures**
Provide adequate general and local exhaust ventilation

**Respiratory equipment**
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit

## SECTION 9- PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Colour** | Clear liquid |
| **Odour** | Characteristic |
| **Physical state** | Aerosol |
| **Density @ 20 °C (g/ml)** | 0,76-0,84 |
| **Vapour pressure @ 40 °C (kPa)** | 700 (propellant) |
| **Vapour density** | No data available |
| **Melting point** | No data available |
| **Flash point** | -104°C (propellant) |
| **pH** | 5,0-8,0 |
| **Solubility** | Dispersible |
| **Viscosity @ 20 °C (cPs)** | 0,845 |
| **Can pressure @ 20 °C (bar)** | 4-6 |

**9.2. Other information**
No information required

## SECTION 10- STABILITY AND REACTIVITY

**10.1. Reactivity**
There are no known reactivity hazards associated with this product.

**10.2. Chemical stability**
Stable under normal temperature conditions and recommended use. Stable under the prescribed storage conditions

**10.3. Possibility of hazardous reactions**
Hazardous Polymerisation
Unknown.

**10.4. Conditions to avoid**
Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials**
Materials To Avoid
Strong acids. Strong oxides.

**10.6. Hazardous decomposition products**
Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

## SECTION 11- TOXICOLOGICAL INFORMATION

**Toxicological information on ingredients**

**D-TETRAMETHRIN**
Oral $LD_{50}$ (mg/kg) > 5000 Species : Rat
Dermal LD50 (mg/kg) > 2000 Species : Rat

Eye irritation : Non-irritating Species : Rabbit
Skin irritation : Minimal irritating Species : Rabbit

**PIPERONYL BUTOXIDE**
Oral $LD_{50}$ (mg/kg) > 11500 Species : Rat
Dermal LD50 (mg/kg) > 1880 Species : Rabbit
Inhlation LC50 (mg/L) : 5,9 Species : Rat

Eye irritation : Non-irritating Species : Rabbit
Skin irritation : Non-irritating Species : Rabbit
Sensitisation : Non-irritating Species : Rabbit

## SECTION 11- TOXICOLOGICAL INFORMATION

**PERMETHRIN**

LD50 oral rat 250 mg/kg

LD50 dermal > 2000 mg/kg Rabbit

Eye irritation : Non-irritating Species : Rabbit
Skin irritation : Non-irritating Species : Rabbit
Sensitisation : Minimal irritation in unwashed eyes

## SECTION 12- ECOLOGICAL INFORMATION

**D-TETRAMETHRIN**

**Environmental / Ecological Effects :** Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
Do not contaminate steams, rivers or waterways with the chemical or used containers.
EC50 (48H) : Daphnia - 0,15µ/L
LC50 (96h) : Rainbow trout -0,69µ/L

**PIPERONYL BUTOXIDE**

**Environmental / Ecological Effects :** Acute oral LD50 for bobwhite quail > 2250 mg/kgs
LC50 (24h) Carp / 5,3mg/L

**PERMETHRIN**

| | |
|---|---|
| **LC50 Fish (96 hours)** | Minimum: 0,00062 mg/l<br>Maximum: 24,4 mg/l<br>Median: 0,0072 mg/l |
| **LC50 Crustaceans (48 hours)** | Minimum: 0,00025 mg/l<br>Maximum: 38,1 mg/l<br>Median: 0,00275 mg/l |

## SECTION 13-DISPOSAL CONSIDERATIONS

**General information**

When handling waste, consideration should be made to the safety precautions applying to handling of the product

**13.1. Waste treatment methods**

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements. Environmental manager must be informed of all major spillages.

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## SECTION 14- TRANSPORT INFORMATION

**14.1. UN number**

| | |
|---|---|
| UN No. (ADR/RID/ADN) | 1950 |
| UN No. (IMDG) | 1950 |
| UN No. (ICAO) | 1950 |

**14.2. UN proper shipping name**

Proper Shipping Name : Aerosols, flammable

**14.3. Transport hazard class(es)**

| | |
|---|---|
| ADR/RID/ADN | Class 2.1 |
| ADR/RID/ADN | Class Class 2: Gases. |
| ADR Label No. | 2.1 |
| IMDG Class | 2.1 |
| ICAO Class/Division | 2.1 |

## SECTION 14- TRANSPORT INFORMATION

Transport Labels


**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant
No.

**14.6. Special precautions for user**

EMS F-D, S-U
Tunnel Restriction Code (D)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No information required

## SECTION 15 REGULATORY INFORMATION

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

**Uk Regulatory References**
Highly Flammable Liquid Regulations 1972.

**Approved Code Of Practice**
Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes**
Workplace Exposure Limits EH40.
Introduction to Local Exhaust Ventilation HS(G)37.
CHIP for everyone HSG(108).

**EU Legislation**
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. System of specific information relating to Dangerous Preparations. 2001/58/EC.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out

## SECTION 16- OTHER INFORMATION

**Hazard Statements In Full**

| | |
|---|---|
| **H220** | Extremely flammable gas |
| **H222** | Extremely flammable aerosol. |
| **H229** | Pressurised container: May burst if heated. |
| **H226** | Flammable liquid and vapour |
| **H280** | Contains gas under pressure; may explode if heated. |
| **H302** | Harmful if swallowed. |
| **H332** | Harmful if inhaled. |
| **H317** | May cause an allergic skin reaction |
| **H315** | Causes skin irritation |
| **H304** | May be fatal if swallowed and enters airways |
| **H336** | May cause drowsiness or dizziness |
| **H400** | Very toxic to aquatic life |
| **H410** | Very toxic to aquatic life with long lasting effects. |
| **H411** | Toxic to aquatic life with long lasting effects |

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use