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

1.1. Product identifier

Product name : 400 ML HIT INSECT KILLER 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 Velimeşe Organize Sanayi Bölgesi 212. Sok. No :1/1 Ergene/TEKİRDAĞ Tel: +09 282 676 46 80 Fax: +09 282 676 46 53 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
Human health	Not classified.
Environment	H410
Classification	(1999/45/EEC) F+;R12

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.
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.
P410+412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F

2.3. Other hazards

This product does not contain any PBT or vPvB substances

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	%by Weight	SYMBOLS	RISK PHRASES Classification (EC 1272/2008)	RISK PHRASES (EC 67/548/EEC)
1R-trans-phenothrin	26046-85-5	0,10	N	H400,H410	R50/53
Tetrametrin	7696-12-0	0,20	N	H400,H410	R50/53
Piperonyl Butoxide	51-03-6	0,30	N	H400,H410	R50/53
Deiyonized water		64,40	None	Not Applicable	Not Applicable
Propellant	68476-85-7	35,00	F+	H220,H280	R12

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

SECTION 4- FIRST AID MEASURE

Ingestion
Immediately rinse mouth and provide fresh air.

Skin contact
Get medical attention if any discomfort continues.

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 (CO2).

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.

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

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

Appearance	aerosol
Colour	opaque
Odour	Characteristic
Physical state	Liquid,gas pressure
Density @ 20 °C (g/ml)	0,90-0,92
Vapour pressure @ 40 °C (kPa)	700 (propellant)
Vapour density	No data available
Melting point	No data available
Flash point	-104°C (propellant)
pH	6,0-8,0
Solubility	Dispersible
Can pressure @ 20 °C (bar)	4-5

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 (CO_2).

SECTION 11- TOXICOLOGICAL INFORMATION

Toxicological information on ingredients

TETRAMETHRIN

Toxic Dose 1 - LD 50	> 2000 mg/kg (oral rat)
Toxic Dose 2 - LD 50	> 2000 mg/kg (dermal rat)
Acute Toxicity (Oral LD50)	> 2000 mg/kg Rat
Acute Toxicity (Dermal)	> 2000 mg/kg Rat
Acute Toxicity (Inhalation LC50)	1.18 mg/l (vapours) Rat 4 hours

SECTION 11- TOXICOLOGICAL INFORMATION

Toxicological information on ingredients

1R-trans Phenothrin
LD50 (Oral). 5000 mg/kg bw Rat
LD50 (Dermal). > 2000 mg/kg bw Rat (> 5000 mg/kg bw, reported in the literature)
LC50 (Inhalation). > 5,3 mg/L Rat (> 2,1 mg/L, reported in the literature)

Tetramethrin
LD50 (Oral). > 2000 mg/kg bw (Rat)
LD50 (Dermal). > 2000 mg/kg bw (Rat)
LC50 (Inhalation). > 5,63 mg/l/4h (Rat)

Piperonyl Butoxide
LD50 (Oral). 4570 mg/kg bw (rat male)
LD50 (Dermal). > 2000 mg/kg bw (rabbit)
LC50 (Inhalation). > 5,9 mg/l/4h (rat)

SECTION 12- ECOLOGICAL INFORMATION

1R-trans Phenothrin
LC50 - for Fish. 0,0027 mg/l/96h (reported in the literature)
EC50 - for Crustacea. 0,0046 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. > 0,011 mg/l/72h Pseudokirchneriella subcapitata (reported in the literature)

Tetramethrin
LC50 - for Fish. 0,033 mg/l/96h Brachydanio rerio
EC50 - for Crustacea. 0,47 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. 1,36 mg/l/72h Scenedesmus subspicatus

Piperonyl butoxide
NOEC Chronic (Algae): 0,824 mg/l (Selenastrum capricornutum)
NOEC Chronic (Fish): 0,053 mg/l (Cyprinodon variegatus)
NOEC Chronic (Invertebrates): 0,030 mg/l (Daphnia magna).

LC50 - for Fish. 3,94 mg/l/96h Cyprinodon variegatus
EC50 - for Crustacea. 0,51 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants. 3,89 mg/l/72h Selenastrum capricornutum

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.

SECTION 14- TRANSPORT INFORMATION

14.1. UN number

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

SECTION 15 REGULATORY INFORMATION

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

Risk Phrases In Full

R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R12	Extremely flammable

Hazard Statements In Full

H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H220	Extremely flammable gas
H280	Contains gas under pressure; may explode if heated

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