

CONTROL SAFETY DATA SHEET

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Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: CONTROL

Chemical name: Cypermethrin 20% + Cyromazine 5%

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

Public health product.

1.3 Details of the supplier of the safety data sheet

Tarsis Agricultural & Industrial Chemicals Co. Ltd.

P.O.Box 10156

Petach-Tikva 4900201 Israel

Tel: 972-3-9223785

Fax: 972-3-9243618

E-mail address of person responsible for this SDS: shuli@tarsis.co.il

1.4 Emergency telephone number

Emergency telephone number (with hours of operation): N/A

Section 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

Product name	EU Classification
CONTROL	Xn; R20/22 Xi; R37 N; R50/53

2.2 Label elements

Labelling in accordance with 1999/45 (DPD)

Hazard symbol(s)



Xn – Harmful



N – Dangerous for the environment

Risk phrase(s)

R20/22: Harmful by inhalation and if swallowed.

R37: Irritating to respiratory system.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Safety phrase(s)

S24: Avoid contact with skin.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

S60: This material and its container must be disposed of as hazardous waste .

S61: Avoid release to the environment. Refer to special instructions/Safety data sheets.

2.3 Other hazard

None

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation:

Ingredient name	Identifiers	%	EU Classification	CLP/GHS Classification
Cyromazine	CAS number: 66215-27-8 EC number: 266-257-8	5	Not available	Not available
Cypermethrin	CAS number: 52315-07-8 EC number: 257-842-9	20	Xn; R20/22 Xi; R37 N; R50/53	Acute Tox. 4 H332, H302 STOT SE 3 H335 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

See section 16 for the full text of the H-statements and R-phrases declared above.

Section 4. FIRST AID MEASURES

4.1 Description of first aid measures

Eyes contact: In case of contact with eyes, rinse immediately with plenty of water and get medical attention.

Skin contact: In case of contact with skin wash off with soap and plenty of water. Get medical attention if irritation develops.

Inhalation: Remove from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.

Ingestion: Do not induce vomiting. If victim is conscious, wash mouth thoroughly with plenty of water and give water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Exposure can cause numbness, tingling, and weakness in extremities, nervousness, anxiety, ataxia, convulsions and allergic manifestation.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: No specific antidote, contact Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

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Section 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable: Foam, carbon dioxide or dry chemical. Soft stream water fog if necessary.

Not suitable: N/A

5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of nitrogen oxides and irritating and toxic fumes.

5.3 Advice for firefighters

Special protective equipment for fire fighters: Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area of spill.

6.2 Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Use foam, chemical powder to prevent evaporation.

Large spill: As for small spill

Personal Protection in Case of Large Spill: Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.

6.4 Reference to other sections

See Section 1 for emergency contact information.

Section 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Hygiene Measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep in properly labeled containers. Store in original container. Avoid sources of heat and direct sunlight. Keep away from strong oxidizing agents.

7.3 Specific end use(s): N/A

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Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values: N/A

8.2 Exposure controls

Engineering Measures

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Person Protective measures

Respiratory protection: Suitable respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate.

Eye/face protection: Wear protective safety glasses, goggles.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

Hand protection: Wear protective disposable gloves to prevent skin exposure.

Environmental exposure controls: N/A

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Light to brown viscous liquid

Odour: N/A

Odour threshold: N/A

pH (20-25°C): 8-10

Melting point/Freezing point: N/A

Initial boiling point/boiling range: N/A

Flash point: N/A

Evaporation rate: N/A

Flammability: N/A

Upper/lower flammability or explosive limits: N/A

Vapor pressure: N/A

Vapor density: N/A

Relative density (20°C): 1.075-1.085

Solubility(ies): N/A

Partition coefficient Octanol/Water: N/A

Auto-ignition temperature: N/A

Decomposition temperature: N/A

Viscosity: N/A

Explosive properties: N/A

Oxidizing properties: N/A

9.2 Other information

N/A

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

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10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Heat and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In the event of fire: see section 5.

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Product/ingredient name	Test	Species	Dose
Cyromazine	LC50, Inhalation	Rat	>2.720 mg/l/4H, air
	LD50, Oral	Rat, male	>4640 mg/kg
	LD50, Oral	Rat, female	3160 mg/kg (1860-5380 mg/kg)
	LD50, Percutaneous	Rat	>2000 mg/kg
Cypermethrin	LC50, Inhalation	-	>3.56 mg/l/4H, air
	LD50, Oral	-	>300-2000 mg/kg
	LD50, Dermal	-	>2000-5000 mg/kg

Irritation:

The product may cause moderate irritation to skin.

The product may cause moderate to severe irritation and damage to eyes.

Corrosivity: N/A

Sensitization: The product may be weak sensitizer to skin.

Repeated dose toxicity: N/A

Carcinogenicity: N/A

Mutagenicity: N/A

Toxicity for reproduction: N/A

Section 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Cypermethrin

	Test	Species	Dose
Birds	LD50, Oral	Pigeon	>2000 mg/kg
	LD50, Oral	Japanese quail	1410 mg/kg
Fish	LC50/96h	Rainbow trout	0.69 µg/l
Daphnia	EC50/48h	Daphnia magna	0.15 µg/l

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	Test	Species	Dose
Earthworm	LC50 NOEC	-	>1000 mg/kg dry weight artificial soil 100 mg/kg dry weight artificial soil

Cyromazine

	Test	Species	Dose
Birds	LD50, Oral	Bobwhite quail	1785 mg/kg
	LD50, Oral	Japanese quail	2338 mg/kg
	LD50, Oral	Pekin ducks	>1000 mg/kg
	LD50, Oral	Mallard ducks	>2510 mg/kg
Fish	LC50/96h	Bluegill sunfish	>90 mg/l
		Carp, Catfish, Rainbow trout	>100 mg/l
Daphnia	LC50/48h	Daphnia magna	>9.1 mg/l
Algae	LC50	-	124 mg/l
Mallard	LD50, Oral	-	>2510 mg/kg
	LC50, 8 day, dietary	Bobwhite	>5620 ppm
Worm	LC50	-	>1000 mg/kg
Bees	Non-toxic to adult honeybees (no contact action up to 5µg/bee)		

12.2 Persistence and Degradability

N/A

12.3 Bioaccumulative potential

N/A

12.4 Mobility in soil

N/A

12.5 Results of PBT and vPvB assessment

N/A

12.6 Other adverse effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION

14.1 Un number

ADR/RID: 3352

IMDG: 3352

IATA: 3352

14.2 Proper shipping name

ADR/RID: PYRETHROID PESTICIDE, LIQUID, TOXIC

IMDG: PYRETHROID PESTICIDE, LIQUID, TOXIC

IATA: Pyrethroid pesticide, liquid, toxic

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4 Packing group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazard

Marine pollutant: Yes

14.6 Special precautions for user

Not available

14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

Section 15: REGULATORY INFORMATION

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

EU Directives 67/548/EEC and 1999/45/EC (including amendments)

EU Regulation(EC) No.1907/2006 (REACH)

15.2 Chemical safety assessment

N/A

Section 16: OTHER INFORMATION

Full text of R-phrases referred to in section 3:

Xi – Irritant

Xn – Harmful

N – Dangerous for the environment

R20/22: Harmful by inhalation and if swallowed.

R37: Irritating to respiratory system.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of Hazards Statements referred to in section 3:

STOT SE – Specific target organ toxicity — single exposure

Acute Tox – Acute toxicity

Aquatic Acute - Hazardous to the aquatic environment

Aquatic Chronic - Hazardous to the aquatic environment

H302: Harmful if swallowed.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

Training advice: Before using/handling the product one must read carefully present MSDS.

Recommended restriction: N/A

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Key Legend Information:

ACGIH- American Conference of Governmental Industrial Hygienists

OSHA- Occupational Safety and Health Administration

NTP- National Toxicology program

IARC- International Agency for Research on Cancer

ND- Not Determined

N/A- Not available

R-phrases- Risk phrases

S-phrases- Safety phrases

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Version no. 3

To the best of our knowledge the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.