SAFETY DATA SHEET

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

Product Identifier

Material Name: Mita-Clear™

Trade Name: Mita-Clear (TM)
Chemical Family: Mixture
Registration Number: US EPA Registration Number: 1007-94

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Intended Use: Veterinary otic antiparasitic
Restrictions on Use: Not for human use

Details of the Supplier of the Safety Data Sheet

Zoetis Inc.
100 Campus Drive, P.O. Box 651
Florham Park, New Jersey 07932 (USA)
Rocky Mountain Poison and Drug Center Phone: 1-866-531-8896
Product Support/Technical Services Phone: 1-800-366-5288

Zoetis Belgium S.A.
Mercuriusstraat 20
1930 Zaventem
Belgium

Emergency telephone number:
CHEMTREC (24 hours): 1-800-424-9300

Emergency telephone number:
International CHEMTREC (24 hours): +1-703-527-3887

Contact E-Mail: VMIPSrecords@zoetis.com

2. HAZARDS IDENTIFICATION

Appearance: Aqueous based lotion with aloe

Classification of the Substance or Mixture

GHS - Classification

Acute aquatic toxicity: Category 1
Chronic aquatic toxicity: Category 1

EU Classification:

EU Indication of danger: N - Dangerous for the environment

EU Risk Phrases:

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

Label Elements

Signal Word: Warning
Hazard Statements: H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements: P273 - Avoid release to the environment
P391 - Collect spillage
P501 - Dispose of contents/container in accordance with all local and national regulations

Other Hazards

Short Term: Not an eye irritant . May cause skin irritation. Toxicity following ingestion is not expected. However, ingestion should be avoided.

Australian Hazard Classification (NOHSC): Non-Hazardous Substance. Dangerous Goods.

Note: This document has been prepared in accordance with standards for workplace safety, which require the inclusion of all known hazards of the product or its ingredients regardless of the potential risk. The precautionary statements and warnings included may not apply in all cases. Your needs may vary depending upon the potential for exposure in your workplace.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Piperonyl butoxide	51-03-6	200-076-7	N; R50-53	Aq. Acute Tox 1 (H400) Aq. Chronic Tox 1 (H410)	1.5
Di-N-Propyl Isocinchomeronate	136-45-8	205-245-9	Not Listed	Not Listed	1
Bicycloheptene Dicarboximide	113-48-4	204-029-1	Not Listed	Not Listed	0.5
Pyrethrin	8003-34-7	232-319-8	Xn R20/22	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aq. Acute Tox 1 (H400) Aq. Chronic Tox 1 (H410)	0.15

Ingredient	CAS Number	EU EINECS/ELINCS List	EU Classification	GHS Classification	%
Inert ingredients	NOT ASSIGNED	Not Listed	Not Listed	Not Listed	*

Additional Information: * Proprietary
Ingredient(s) indicated as hazardous have been assessed under standards for workplace safety. In accordance with 29 CFR 1910.1200, the exact percentage composition of this mixture has been withheld as a trade secret.

For the full text of the R phrases and CLP/GHS abbreviations mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of First Aid Measures

Eye Contact: Immediately flush eyes with water for at least 15 minutes. If irritation occurs or persists, get medical attention.

Skin Contact: Wash hands and arms thoroughly after handling this material. Obtain medical assistance if skin effects occur.

Ingestion: Never give anything by mouth to an unconscious person. Wash out mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical attention immediately.

Inhalation: Remove to fresh air and keep patient at rest. Seek medical attention immediately.

Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms and Effects of Exposure: For information on potential signs and symptoms of exposure, See Section 2 - Hazards Identification and/or Section 11 - Toxicological Information.

Medical Conditions Aggravated by Exposure: None known

Indication of the Immediate Medical Attention and Special Treatment Needed

Notes to Physician: None

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Extinguish fires with CO2, extinguishing powder, foam, or water.

Special Hazards Arising from the Substance or Mixture

Hazardous Combustion Products: Toxic or corrosive gases are expected in fires involving this mixture.

Fire / Explosion Hazards: Fine particles (such as dust and mists) may fuel fires/explosions.

Advice for Fire-Fighters

During all fire fighting activities, wear appropriate protective equipment, including self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personnel involved in clean-up should wear appropriate personal protective equipment (see Section 8). Minimize exposure.

Environmental Precautions

Place waste in an appropriately labeled, sealed container for disposal. Care should be taken to avoid environmental release.

Methods and Material for Containment and Cleaning Up

Measures for Cleaning / Collecting: Contain the source of spill if it is safe to do so. Collect spill with absorbent material. Clean spill area thoroughly.

Additional Consideration for Large Spills: Non-essential personnel should be evacuated from affected area. Report emergency situations immediately. Clean up operations should only be undertaken by trained personnel.

7. HANDLING AND STORAGE

Precautions for Safe Handling

7. HANDLING AND STORAGE

When handling, use appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapor or mist. Wash thoroughly after handling. Prevent environmental releases. Review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure or environmental releases. Potential points of process emissions of this material to the atmosphere should be controlled with dust collectors, HEPA filtration systems or other equivalent controls.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Store as directed by product packaging.

Specific end use(s): No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Refer to available public information for specific member state Occupational Exposure Limits.

Pyrethrin

ACGIH Threshold Limit Value (TWA)	5 mg/m^3
Australia TWA	5 mg/m^3
Austria OEL - MAKs	1 mg/m^3
Belgium OEL - TWA	1 mg/m^3
Bulgaria OEL - TWA	1.0 mg/m^3
Cyprus OEL - TWA	1 mg/m^3
Czech Republic OEL - TWA	1 mg/m^3
Denmark OEL - TWA	1 mg/m^3
Estonia OEL - TWA	1 mg/m^3
Finland OEL - TWA	1 mg/m^3
France OEL - TWA	1 mg/m^3
Germany - TRGS 900 - TWAs	1 mg/m^3
Greece OEL - TWA	1 mg/m^3
Hungary OEL - TWA	1 mg/m^3
Ireland OEL - TWAs	1 mg/m^3
Italy OEL - TWA	1 mg/m^3
Latvia OEL - TWA	1 mg/m^3
Lithuania OEL - TWA	1 mg/m^3
Luxembourg OEL - TWA	1 mg/m^3
Malta OEL - TWA	1 mg/m^3
Netherlands OEL - TWA	1 mg/m^3
OSHA - Final PELS - TWAs:	5 mg/m^3
Poland OEL - TWA	1 mg/m^3
Portugal OEL - TWA	5 mg/m^3
Romania OEL - TWA	1 ppm
Slovakia OEL - TWA	1 mg/m^3
Slovenia OEL - TWA	1 mg/m^3
Spain OEL - TWA	1 mg/m^3
Sweden OEL - TWAs	1 mg/m^3
Switzerland OEL -TWAs	5 mg/m^3

Exposure Controls

Engineering Controls: Engineering controls should be used as the primary means to control exposures. General room ventilation is adequate unless the process generates dust, mist or fumes.

Personal Protective Equipment: Refer to applicable national standards and regulations in the selection and use of personal protective equipment (PPE).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hands: Wear impervious gloves if skin contact is possible.
Eyes: Safety glasses or goggles
Skin: Use protective clothing (uniforms, lab coats, disposable coveralls, etc.) in both production and laboratory areas.
Respiratory protection: If the applicable Occupational Exposure Limit (OEL) is exceeded, wear an appropriate respirator with a protection factor sufficient to control exposures to below the OEL.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Lotion
Color: No data available.
Odor: No data available.
Odor Threshold: No data available.
Molecular Formula: Mixture
Molecular Weight: Mixture

Solvent Solubility: No data available
Water Solubility: No data available
Solubility: Soluble: Water (based on components)
pH: No data available.
Melting/Freezing Point (°C): No data available
Boiling Point (°C): No data available.
Partition Coefficient: (Method, pH, Endpoint, Value)
No data available
Decomposition Temperature (°C): No data available.

Evaporation Rate (Gram/s): No data available
Vapor Pressure (kPa): No data available
Vapor Density (g/ml): No data available
Relative Density: No data available
Viscosity: No data available

Flammablity:
Autoignition Temperature (Solid) (°C): No data available
Flammability (Solids): No data available
Flash Point (Liquid) (°C): No data available
Upper Explosive Limits (Liquid) (% by Vol.): No data available
Lower Explosive Limits (Liquid) (% by Vol.): No data available

10. STABILITY AND REACTIVITY

Reactivity: No data available
Chemical Stability: Stable under normal conditions of use.
Possibility of Hazardous Reactions
Oxidizing Properties: No data available
Conditions to Avoid: Fine particles (such as dust and mists) may fuel fires/explosions.
Incompatible Materials: As a precautionary measure, keep away from strong oxidizers
Hazardous Decomposition Products: Thermal decomposition products may include carbon monoxide and carbon dioxide

11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

11. TOXICOLOGICAL INFORMATION

General Information: The information in this section describes the potential hazards of the individual ingredients and the formulation. Toxicological properties of the formulation have not been fully investigated. Routes of exposure: eye contact , skin contact

Acute Toxicity: (Species, Route, End Point, Dose)

Pyrethrin
Rat Oral LD50 470 mg/kg
Rabbit Dermal LD50 2060mg/kg
Rat Inhalation LC50 3.4mg/L /4 hr

Bicycloheptene Dicarboximide
Rat Oral LD50 2800 mg/kg
Rabbit Dermal LD50 470mg/kg
Mouse Oral LD50 1000mg/kg

Di-N-Propyl Isocinchomeronate
Rat Oral LD50 5230 mg/kg
Mouse Oral LD50 1600mg/kg
Rabbit Dermal LD50 9500mg/kg

Piperonyl butoxide
Rat Oral LD50 7960 mg/kg

Irritation / Sensitization: (Study Type, Species, Severity)

Piperonyl butoxide
Skin Irritation Rabbit Minimal
Eye Irritation Rabbit Slight

Repeated Dose Toxicity: (Duration, Species, Route, Dose, End Point, Target Organ)

Bicycloheptene Dicarboximide
2 Year(s) Rat Oral1000 mg/kg NOEL None identified

Reproduction & Developmental Toxicity: (Study Type, Species, Route, Dose, End Point, Effect(s))

Pyrethrin
Fertility and Embryonic Development Rat Oral50 mg/kg/day NOEL Embryotoxicity, Not teratogenic

Genetic Toxicity: (Study Type, Cell Type/Organism, Result)

Piperonyl butoxide
Bacterial Mutagenicity (Ames) *Salmonella* Negative
Chromosome Aberration Chinese Hamster Ovary (CHO) cells Negative
Chromosome Aberration Rat bone marrow Negative

Carcinogenicity: (Duration, Species, Route, Dose, End Point, Effect(s))

Piperonyl butoxide
107 Week(s) Mouse Oral, in feed 2000-5000 ppm NOEL Not carcinogenic
107 Week(s) Rat Oral, in feed 10000 ppm NOEL Not carcinogenic

11. TOXICOLOGICAL INFORMATION

Carcinogen Status: None of the components of this formulation are listed as a carcinogen by IARC, NTP or OSHA. See below

Piperonyl butoxide
IARC: Group 3 (Not Classifiable)

Product Level Toxicity Data

Irritation / Sensitization

Study Type	Species	Result
Eye Irritation	Rabbit	No effect
Skin Irritation	Rabbit	Mild

12. ECOLOGICAL INFORMATION

Environmental Overview: Very toxic to aquatic life with long lasting effects. This mixture is toxic to fish. Do not add directly to water. Do not wash animal where runoff is likely to occur. Releases to the environment should be avoided.

Toxicity:

Aquatic Toxicity: (Species, Method, End Point, Duration, Result)

Pyrethrin
Daphnia magna (Water Flea) LC50 48 Hours 0.025 mg/L
Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 0.058 mg/L
Salmo salar (Atlantic salmon) LC50 96 Hours 0.040 mg/L

Piperonyl butoxide
Oncorhynchus mykiss (Rainbow Trout) LC50 96 Hours 0.0034 mg/L
Lepomis macrochirus (Bluegill Sunfish) LC50 96 Hours 0.0042 mg/L

Persistence and Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods: Should not be released into the environment. Dispose of waste in accordance with all applicable laws and regulations. Member State specific and Community specific provisions must be considered. Considering the relevant known environmental and human health hazards of the material, review and implement appropriate technical and procedural waste water and waste disposal measures to prevent occupational exposure and environmental release. It is recommended that waste minimization be practiced. The best available technology should be utilized to prevent environmental releases. This may include destructive techniques for waste and wastewater.

14. TRANSPORT INFORMATION

As of January 1, 2015, materials offered for transport that are classified for transportation only as Marine Pollutants and which are packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 Liters or less for liquids or having a net mass per single or inner packaging of 5 kilograms or less for solids are NOT subject to ICAO/IATA, IMDG, or ADR transport regulations provided the general packaging requirements of those regulations are met. Refer to ICAO/IATA A197, IMDG 2.10.2.7, ADR SP 375. For US DOT, refer to the applicable RQ below.

UN number:	UN 3082
UN proper shipping name:	Environmentally hazardous substances, liquid, n.o.s. (Piperonyl butoxide, Pyrethrin)
Transport hazard class(es):	9
Packing group:	III
Environmental Hazard(s):	Marine Pollutant

Please refer to the applicable dangerous goods regulations for additional information. Transport according to the requirements of the appropriate regulatory body.

DOT
For U.S. DOT, single inner packages containing the hazardous substance in a quantity which is greater than or equal to the hazardous substance Reportable Quantity (see RQ below) are regulated for transport and must be transported according to the shipping information listed above in this section.

U.S. DOT Reportable Quantity (RQ), 49 CFR 172.101 Appendix A:

Pyrethrin

CERCLA/SARA Hazardous Substances and their Reportable Quantities:	1 lb 0.454 kg

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

Canada - WHMIS: Classifications
WHMIS hazard class:
Non-controlled
This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

Piperonyl butoxide

CERCLA/SARA 313 Emission reporting	1.0 %
California Proposition 65	Not Listed
Inventory - United States TSCA - Sect. 8(b)	Present
Australia (AICS):	Present
EU EINECS/ELINCS List	200-076-7

Di-N-Propyl Isocinchomeronate

15. REGULATORY INFORMATION

CERCLA/SARA 313 Emission reporting	1.0 %
California Proposition 65	carcinogen initial date 5/1/96
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 5
EU EINECS/ELINCS List	205-245-9

Bicycloheptene Dicarboximide

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
Australia (AICS):	Present
EU EINECS/ELINCS List	204-029-1

Inert ingredients

CERCLA/SARA 313 Emission reporting	Not Listed
California Proposition 65	Not Listed
EU EINECS/ELINCS List	Not Listed

Pyrethrin

CERCLA/SARA 313 Emission reporting	Not Listed
CERCLA/SARA Hazardous Substances and their Reportable Quantities:	1 lb 0.454 kg
California Proposition 65	Not Listed
Australia (AICS):	Present
Standard for the Uniform Scheduling for Drugs and Poisons:	Schedule 2 Schedule 5
EU EINECS/ELINCS List	232-319-8

16. OTHER INFORMATION

Text of R phrases and GHS Classification abbreviations mentioned in Section 3

Acute toxicity, oral-Cat.4; H302 - Harmful if swallowed
Acute toxicity, inhalation-Cat.4; H332 - Harmful if inhaled
Hazardous to the aquatic environment, acute toxicity-Cat.1; H400 - Very toxic to aquatic life
Hazardous to the aquatic environment, chronic toxicity-Cat.1; H410 - Very toxic to aquatic life with long lasting effects

Xn - Harmful
N - Dangerous for the environment

R20 - Harmful by inhalation.
R22 - Harmful if swallowed.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Data Sources: The data contained in this SDS may have been gathered from confidential internal sources, raw material suppliers, or from the published literature.

Reasons for Revision: Updated Section 1 - Identification of the Substance/Preparation and the Company/Undertaking. Updated Section 2 - Hazard Identification. Updated Section 3 - Composition / Information on Ingredients. Updated Section 8 - Exposure Controls / Personal Protection. Updated Section 11 - Toxicology Information. Updated Section 14 - Transport Information.

Prepared by: Toxicology and Hazard Communication
Zoetis Global Risk Management

Zoetis Inc. believes that the information contained in this Safety Data Sheet is accurate, and while it is provided in good faith, it is without warranty of any kind, expressed or implied. If data for a hazard are not included in this document there is no known information at this time.

End of Safety Data Sheet