

## MATERIAL SAFETY DATA SHEET

PRODUCT NAME: TOTAL

ISSUE 02

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FEBRUARY 2016

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** TOTAL  
**ACTIVES INGREDIENTS:** FIPRONIL  
**MANUFACTURER:** Sicamex Ltd. – Haharoshet st. 34 – Ind. Area Kyriat Bialik  
P.O.B. 9287 - (Zip Code 27000)  
Tel.: 04-8764044 Fax: 04-8764045

## 2. HAZARDS IDENTIFICATION

**Classification of the mixture:**

R 52/53 – Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Health hazard: no

Environmental Hazards: harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Physical/chemical hazards: no

Fire hazard: Highly flammable. The product is a liquid that sets on fire at temperatures greater than 15°C if subject to sources of ignition.

Health Risks: the product is noxious by acute exposure and poses severe health risks if inhaled or coming in contact with the skin.

In contact with the skin, the product causes severe rash, with erythemas, scabs or edemas.

In contact with the eyes, the product causes loss of corneal clarity or severe damage or to the iris.

## S-PHRASES:

S1/S2: KEEP THE PRODUCT UNDER LOCK AND KEY AND OUT OF CHILDREN.

DURING USE DO NOT CONTAMINATE FOODS, DRINKS AND CONTAINER ASSIGNED TO CONTAIN IT.

IN CASE OF ACCIDENTAL POISONING IT MUST IMMEDIATELY CALL A DOCTOR AND SHOW HIM THE LABEL AND THE CONTAINER, IN ORDER THAT HE MAY PRACTISE FIRST AID.

S24/25: AVOID THE SKIN, EYE AND CLOTHES CONTACT.

S28: AFTER USE AND IN CASE OF SKIN CONTACT, WASH IMMEDIATELY AND ABUDANTLY WITH WATER AND SOAP.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Fipronil</b>		5.00 %
CAS Number:	120068-37-3	
R-Phrases:	R23/24/25 – R48/25 – R50/53	
<b>Isopropyl Alcohol</b>		< 50.00 %
CAS Number:	67-63-0	
R-Phrases:	R11 – R36 – R37	

**3. COMPOSITION / INFORMATION ON INGREDIENTS (Continuation)**

<b>Acetone</b>		< 25.00 %
CAS Number:	67-64-1	
R-Phrases:	R11 – R36 – R66 – R67	
<b>D-Limonene</b>		< 7.00 %
CAS Number:	67-64-1	
R-Phrases:	R10 – R33 – R43 – R505/53	

**4. FIRST AID AND MEASURES**

GENERAL ADVICE: THE PRODUCT CONTAINS POISONOUS COMPONENTS TO KILL, ANTS, COCKROACHS AND OTHER CRAWLING INSECTS. DO NOT SPRAY DIRECTLY ON PEOPLE.

Skin contact:

Immediately take off contaminated clothing.

Immediately wash skin with soap and copious amounts of running water.

Eye contact:

Immediately wash with copious amounts of running water while keeping your eyes open, for at least 10 minutes. Protect your eyes with dry sterile gauze or a clean handkerchief. SEEK MEDICAL ADIVICE.

Do not use eye drops or any kind of ointment before seeing a doctor.

Ingestion:

DO NOT induce vomiting. IMMEDIATELY CONTACT A PHYSICIAN.

Administer the injured person Vaseline oil; do not administer milk, animal or vegetable fats.

Ventilate the room. Take the injured person out of the contaminated environment and have him rest in a well ventilated room. CONTACT A PHYSICIAN.

**Notes to Physician:** Treat symptomatically. Monitoring of respiratory and cardiac functions. In case de ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However the application of activated charcoal and sodium sulphate is always advisable.

**5. FIRE FITHING MEASURES**

Recommended fire extinguishers: In case of a fire use CO<sub>2</sub>, foam, chemical powder

Forbidden fire extinguishers: None.

Combustion risks: Do not inhale the fumes.

Protection means: Use respiratory protection devices. Cool off containers exposed to fire with water

**6. ACCIDENTAL RELEASE MEASURES**

**Individual precautions:** Wear mask, gloves and protective gear.

**Environmental precautions:** Contain leaks with earth or sand.

**Eliminate all free flames and possible sources of ignition. Do not smoke.**

If the product has migrated into waterways, sewers or has contaminated the soil or vegetation, notify the competent authorities.

**Cleaning method:** Wear mask and protective gear and quickly mop up the product.

If the product is in a liquid form, make sure it doesn't migrate into the sewers.

**6. ACCIDENTAL RELEASE MEASURES**

If possible, reuse the product otherwise dispose of it. Absorb spills with inert material. Once the product has been mopped up, wash the area and utensils with water.

**Additional advice:** Information regarding safe handling, personal protective equipment and waste disposal see sections: 7,8 and 13.

**7. HANDLING AND STORAGE**

**Handling precautions:** Avoid contact with the product and do not inhale the fumes. See paragraph 8. Be very careful in handling and opening the container. Do not eat, drink or smoke whilst working with the product.

**Incompatible materials:** None in particular. See paragraph 10.

**Storing conditions:** At least 2 years if properly packed and stored. Always keep containers tightly closed. Keep product away from free flames, sparkles and sources of heat. Avoid direct exposure to sunlight. Storing premises must be cool and properly ventilated.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Precaution measures:** The premises where the product is stores and/or handled must be properly ventilated.

**Respiratory protections:** A suitable respiratory protection such as a mask with cartridge filter is required.

**Hand protection:** Wear protective gloves.

**Eye protection:** Wear safety glasses.

**Skin protection:** Wear protective clothing.

**Exposure to substances limits:** None

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance and color:	yellow liquid
Smell:	characteristic
Flash point:	12 ° C
Flammability (solid/gas):	>450°C
Explosive properties:	n.a.
Combustive properties:	n.a.
Relative density:	0.80-0.90 to 20°C
Water solubility:	water emulsifiable

**10. STABILITY AND REACTIVITY**

Hazardous reactions: unknown

Conditions to be avoided: stable under normal conditions.

Substances to be avoided: strong acid & alkalis. Avoid contact with combustive materials. The product could inflame.

Dangers from decomposition: hazardous oxides toxic fumes

**11. TOXICOLOGICAL INFORMATION**

EYE EFFECTS:	EXPECTED TO BE IRRITANTING
SKIN EFFECTS:	EXPECTED TO BE IRRITANTING
DERMAL LD <sub>50</sub> :	CALCULATED DERMAL LD <sub>50</sub> , Rabbit = 4,368 mg/kg.
ORAL LD <sub>50</sub> :	CALCULATED ORAL LD <sub>50</sub> , RAT-male & female 1374 mg/kg.
Inhalation LC <sub>50</sub> :	CALCULATED INHALATION RAT 6,657 mg/m <sup>3</sup>
Sensitization:	NO DATA AVAILABLE FOR THE FORMULATION

Toxicological data for active ingredient – fipronil:

Acute toxicity:

Acute Oral Toxicity LD50 (rat): 97 mg/kg

Acute Dermal Toxicity LD50 (rat): > 2000 mg/kg

Acute Inhalation Toxicity LC50 (rat): 0,36 mg/dm<sup>3</sup>/4h

Routes of exposure:

Inhalation, ingestion, skin and eye contact

Potential health effects:

Inhalation – toxic if inhaled, may cause respiratory tract irritation.

Ingestion – toxic if swallowed

Skin – cause skin irritation, toxic if absorbed through skin. Easy absorbed through skin

Eyes – cause eyes irritation

**12. ECOLOGICAL INFORMATION****Ecotoxicological data for hazardous ingredient – fipronil:**

Acute Toxicity to fish (*Oncorhynchus mykiss*): LC50 (96h): 0,25 mg/dm<sup>3</sup>

Acute Toxicity to fish (*Lepomis macrochirus*): LC50 (96h): 0,085 mg/dm<sup>3</sup>

Acute Toxicity to fish (*Cyprinus carpio*): LC50 (96h): 0,19 mg/dm<sup>3</sup>

Acute Toxicity to aquatic invertebrates (*Daphnia magna*) EC50 (48h): 0,16 µg/dm<sup>3</sup>

Acute Toxicity to algae (*Scenedesmus subspicatus*) EC50 (48h): 0,068 mg/dm<sup>3</sup>

**13. DISPOSAL CONSIDERATIONS**

**Product Disposal:** In accordance with current regulations.

**Container Disposal:** Not completely empty packaging should be disposed of as hazardous waste.

**14. TRANSPORT INFORMATION****RID/ADR**

Class: 3

Packaging group: II

Label: 3

Hazard identification: n. 33

Substance identification: n. 1219

Proper shipping name: **HIGHLY FLAMMABLE LIQUID, (ISOPROPYL ALCOHOL)**

**IMO/IMDG**

Class: 3

Label: 3

**14. TRANSPORT INFORMATION (CONTINUATION)**

UN N. (N° ONU) 1219  
 Packaging group: III  
 Marine pollutant YES  
 Proper shipping name: **HIGHLY FLAMMABLE LIQUID, (ISOPROPYL ALCOHOL)**

**15. REGULATORY INFORMATION****SYMBOLS:**

TOXIC (T)



HIGHLY INFLAMMABLE (F)



IRRITANT (I)



DANGEROUS FOR THE ENVIRONMENT (N)

**R- PHRASES:**

R11: HIGHLY FLAMMABLE  
 R22: HARMFUL IF SWALLOWED  
 R36: IRRITATING TO EYES  
 R51/53: TOXIC TO AQUATIC ORGANISM, MAY CAUSE LONG-ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.  
 R66: REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING  
 R67: VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

**S- PHRASES:**

S2: KEEP OUT OF REACH OF CHILDREN  
 S3: KEEP IN A COOL PLACE.  
 S13: KEEP AWAY FROM FOOD, DRINK AND ANIMAL FOODSTUFFS.  
 S15/16: KEEP AWAY FROM HEAT, SOURCES OF IGNITION, O SMOKING.  
 S20/21: WHEN USING DO NOT EAT, DRINK OR SMOKE.  
 S24/25: AVOID CONTACT WITH SKIN AND EYES.  
 S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH A PLENTY OF WATER AND SEEK MEDICAL ADVICE.  
 S27: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.  
 S28: AFTER CONTACT WITH SKIN WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER.  
 S29: DO NOT EMPTY INTO DRAINS.  
 S37: WEAR SUITABLE GLOVES.  
 S45: IN CASE OF ACCIDENT OF IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL WHERE POSSIBLE)  
 S62: IF SWALLOWED DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY AND SHOW THIS CONTAINER OR LABEL.

CONTAINS SUBSTANCES WHICH ARE DANGEROUS FOR THE AQUATIC ENVIRONMENT.

LOCAL REGULATIONS, IF ANY, SHOULD BE APPLIED TO CLASSIFICATION AND LABELLING.

**16. OTHER INFORMATION**

THE MINISTRY OF ENVIRONMENT PROTECTION DETERMINED THAT THE USAGE OF THIS PRODUCT/ SUBSTANCE IN CONTRADICTION TO THE ENCLOSED INSTRUCTION MAY ENDANGER THE ENVIRINMENT AND PUBLIC HEALTH AND IS AGAINST THE LAW. THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET, IS AS ACCURATE POSSIBLE TO THE BEST OF ESHED CHEMICALS KNOWLEDGE AT THE TIME IT WAS COMPLIED, USERS ARE FURTHER REMINDER OF THE POSSIBLE RISKS OF USING A PRODUCT FOR PURPOPE OTHER THA THOSE WHICH IT WAS INTENDED.

**ISSUE 02****SIGNED: TRIGUBOFF BERNARDO****TECHNICAL & CHEMICAL****CONSULTANT****FEBRUARY 2016**