



## MATERIAL SAFETY DATA SHEET

### SECTION 1 - IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Company Address:** The National Company For Agrochemicals & Investment

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**Product Name:** TELITON 72% EC (PROFENOFOS)

**Formulation type :** Emulsifiable Concentrate

**CAS RN:** 41198-08-7

**Chemical Name:** *O*-4-bromo-2-chlorophenyl *O*-ethyl *S*-propyl phosphorothioate

**Chemical family:** organophosphate

### SECTION 2 - COMPOSITION/ INFORMATION ON INGREDIENTS

Component	Percentage	CAS RN
Profenofos	72%	41198-08-7
Inert ingredient	28%	-----

### SECTION 3 - IDENTIFICATION OF HAZARDS

#### Emergency Overview:

Danger! Poison. Hazard to humans and domestic animals.

Keep out of the reach of children. Poisonous if swallowed, inhaled or absorbed through the skin.

Rapidly absorbed through skin. Do not breathe fumes or dust.

Harmful if swallowed. Toxic in contact with skin. May cause sensitization by skin contact.

#### Potential health effects :

**Eye:** May be absorbed through the eye and produce symptoms similar to those from ingestion.

Causes redness, irritation, tearing.

**Skin:** Harmful if absorbed through skin. May produce symptoms similar to those from ingestion.

May cause irritation, redness, swelling.

**Inhalation:** Highly toxic if inhaled. May produce symptoms similar to those from ingestion.

May cause dizziness, headache, nausea, vomiting, death.

**Ingestion:** May be fatal if swallowed. May lead to rapid onset of nausea, vomiting, diarrhea, abdominal pain, involuntary shaking, excess salivation, pinpoint pupils, blurred vision, profuse sweating, temporary paralysis, respiratory depression, and convulsions.



#### **SECTION 4- FIRST AID MEASURES**

**IF INHALED:** Remove to fresh air and keep at rest. If signs of poisoning occur, obtain urgent medical advice, as above. If breathing stops or shows signs of failing, start artificial respiration. Do not use the direct mouth-to-mouth method. Administer oxygen if necessary. Get to a doctor or hospital quickly. If advised by doctor or Poisons Information Center.

**IF ON SKIN:** If poisoned by skin absorption, remove any contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water for 15-20 minutes. Seek immediate medical assistance - get to doctor or hospital quickly. Persons assisting the patient should protect themselves from contamination. If advised by doctor or Poisons Information Center

**IF SWALLOWED:** Wash out mouth with water. Keep patient at rest and seek urgent medical advice as above. Transport patient to doctor or hospital quickly. If advised by doctor or Poisons Information Center

DO NOT attempt to give anything by mouth to a semi-conscious or unconscious person.

**IF IN EYES:** Flush eyes with plenty of water for 15 minutes.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

**FLASHPOINT:** 124 °C

**Extinguishing media**

**Recommended:** Water, foam, dry chemical, carbon dioxide (CO<sub>2</sub>)

**Unusual fire and explosion hazards**

Minimize use of water to prevent environmental contamination.

Environmental precautions .

**Hazardous products of combustion**

Carbon monoxide (CO), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride (HCl) .

**Fire fighting equipment**

Self-contained breathing apparatus.

Equipment should be thoroughly decontaminated after use.

#### **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**Spillage or Leak Disposal Procedures:**

Shut off or remove any sources of ignition. DO NOT smoke. Avoid contact with the spilled material or contaminated surfaces. When dealing with spills wear personal protective (clothing and equipment). Keep people and animals away and upwind. Prevent spilled material from entering drains or watercourses. Contain spill - remove liquid mechanically (explosion proof or hand pump) or absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, loosely covered drums for safe disposal. Deal with all



spillages immediately. If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.

### **Waste Disposal Methods:**

When returnable container is empty or contents no longer required return it to the point of purchase. For non-returnable containers, triple or (preferably) pressures rinse them before disposal. Add rinsing to spray tank. Do not dispose of undiluted chemicals onsite. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of waste product via a licensed disposal contractor to an approved landfill.

## **SECTION 7 - HANDLING AND STORAGE**

### **Handling**

Avoid contact with eyes, skin and clothing.

Avoid breathing vapour or mist.

Wash hands thoroughly after handling or contact.

When using do not eat, drink or smoke.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

Emptied containers retain vapour and product residue.

**FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.**

### **Storage**

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Control process conditions to avoid contact. Use only in well ventilated areas.

### **PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION:** Wear Safety Goggles

**CLOTHING:** Wear cotton overalls buttoned to the neck and wrist and a washable hat.

**GLOVES:** Wear elbow length PVC gloves.



**RESPIRATOR:** If inhalation is likely, wear a respirator with an organic vapour cartridge.

**Other:** After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles or face shield, respirator face piece and contaminated clothing.

**USER SAFETY RECOMMENDATIONS:**

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>PHYSICAL DESCRIPTION:</b>	Yellowish brown liquid
<b>ODOR:</b>	Strong and objectionable
<b>pH:</b>	5.5
<b>DENSITY:</b>	1.234 gm / cm <sup>3</sup>
<b>FLASH POINT.:</b>	124 °C
<b>SOLUBILITY IN WATER</b>	28 mg/l (25 °C)

**SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Normally stable.

**CONDITIONS TO AVOID:** Avoid temperatures above 100°F (60°C).

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong alkalis, amines and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** During a fire this product may release smoke and hazardous decomposition products.

**HAZARDOUS POLYMERIZATION:** Will not occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**I- Acute Toxicity:**

Acute Oral	Rat (LD <sub>50</sub> ) : higher than 200 & lower than 2000 mg/kg
Acute Dermal	Rat (LD <sub>50</sub> ) : higher than 2000 mg/kg
Inhalation	Rat (LC <sub>50</sub> ) : 3500 mg/m <sup>3</sup> (4h)
Skin Irritation	Irritating to skin.
Eye Irritation	Irritating to eyes.



## **SECTION 12 - ECOLOGICAL INFORMATION**

<b>FISH TOXICITY:</b>	LC <sub>50</sub> (96 h) 0.5 mg/l
<b>ALGAE TOXICITY:</b>	LC <sub>50</sub> (72h ) 2.0 mg/l
<b>Daphnia TOXICITY:</b>	LC <sub>50</sub> (48h) 0.02 mg/l
<b>WORMS:</b>	LC <sub>50</sub> (14 d) 372 mg a.i /kg

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

### **WASTE:**

Pesticide wastes are toxic and hazardous. Dispose of in accordance with applicable and local laws and regulations. Do not discharge or pour into soil, drainage system or bodies of water.

### **CONTAINER:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning (plastic containers). If burned, stay out of smoke.

## **SECTION 14 - TRANSPORT INFORMATION**

**The data provided in this section is for information only. Please apply the appropriate regulations to properly**

**SHIPPING DESCRIPTION:** Organophosphorus Pesticides, Liquid, Toxic 6.1, UN 3018, PG III

**UN NUMBER:** UN 3018

**HAZARD CLASS:** 6.1

**PACKING GROUP:** PG III

**PRIMARY/SUBSIDIARY LABEL:** Keep Away From Food

**PRIMARY/SUBSIDIARY PLACARD:** Keep Away From Food

## **SECTION 15- REGULATORY INFORMATION**

### **Risk Symbols**

**Xn** Harmful,

**N** - Dangerous for the environment



**Risk Phases**

**R20/21/22** Harmful by inhalation, in contact with skin and if swallowed.

**R50** Very toxic to aquatic organisms.

**R53** May cause long-term adverse effects in the aquatic environment

**SECTION 16 - OTHER INFORMATION**

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