Material Safety Data Sheet: Triazophos 40% EC

“HATTRICK”

1. Identification of the substance/preparation and company

Product details

| Trade name | HATTRICK |

Supplier details

M/s. Jai Shree Rasayan Udyog Ltd;
M-4, Aradhana Bhawan,
Commercial Complex, Azadpur,
New Delhi – 110 033.
Ph: +91-11-4575 0100 (40 lines)
Fax: +91-11-4575 0140

2. Composition/information on ingredients

Chemical characterization

Emulsifiable concentrate (EC).
Contains: Triazophos.
UN-number: 3017

Hazardous ingredients

Xylene
Concentration: ~ 30 % < 40 %
CAS-number: 1330-20-7

Triazophos (ISO)
Concentration: ~ 40 % < 50 %
CAS-number: 24017-47-8

Beta-Pinene
Concentration: ~ 2 % < 8 %
CAS-number: 127-91-3

Acetic anhydride
Concentration: ~ 1 % < 7 %
CAS-number: 108-24-7

Alkylbenzene sulphonate
Concentration: ~ 2 % < 8 %
CAS-number: 25155-30-0

3. Hazards identification

- Flammable.
- Harmful by inhalation and in contact with skin.
- Toxic if swallowed.
- Risk of serious damage to eyes.

4. First aid measures

General information

Remove soiled or soaked clothing immediately. Seek medical advice immediately.

After inhalation

Move the patient to fresh air and keep at rest. Do not use mouth-to-mouth or mouth-to-nose resuscitation. When vapours are intensively inhaled, seek medical advice immediately.

After contact with skin

In case of contact with skin wash off immediately with soap and water.
After contact with eyes

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Summon a doctor immediately.

After ingestion

Do not induce vomiting. Seek URGENT medical advice.

Advice to doctor

Symptoms:

Symptoms of cholinesterase inhibition (gastrointestinal disturbances, dyspnoea, narrowing of the respiratory passages, bradycardia, miosis, clonic spasms).

Unconsciousness

Gastrointestinal complaints Excitement

Treatment

In case of severe Methaemoglobinanemia:

Give 300 mg Toluidine blue intravenously or 1 to 2 mg/kg Methylene blue intravenously. Endotracheal intubation should be done and gastric lavage performed, followed by administration of Charcoal.

Antidot:

Atropin sulfate (2 mg intravenous, if necessary repeat), then Toxogonin (250 mg) or 2-PAM (0.5 g intravenous). Do not administer adrenaline or other stimulants.

Against Cramps:

Give Diazepam intravenously. Monitoring of: respiratory, cardiac and central nervous system. Constant control of blood count and Cholinesterase activity. If necessary, give oxygen. Elimination by Dialysis (forced alkaline Diuresis) or Haemoperfusion. If swallowed, in the event of vomiting, risk of product entering the lungs.

5. Fire-fighting measures

Suitable extinguishing media

Water mist, foam, carbon dioxide, dry powder

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

Risk of formation of toxic pyrolysis products.

Special protective equipment for Firefighting

Use self-contained breathing apparatus.

Further information

Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Collect contaminated firefighting water
separately, must not be discharged into the drains.

6. Accidental release measures
   Personal precautions
   Ensure adequate ventilation. Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/aerosol.

   Environmental precautions
   Do not allow to enter drains or waterways.

   Methods for cleaning up/taking up
   Take up with absorbent material (eg sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

7. Handling and storage
   Handling
   Hints on safe handling. Provide exhaust ventilation. Observe the usual precautions for handling chemicals.
   Hints for protection against fire and explosion, Keep away from sources of ignition - refrain from smoking. Store and handle only in the open air or in explosion-proof areas.

   Storage
   Requirements for storage rooms and vessels Store in the original container only. Hints on storage assembly, Do not store together with foodstuffs or animal feedstocks. Do not store together with foodstuffs. Further information on storage conditions Keep container tightly closed in a cool, well-ventilated place, open and handle carefully. Protect against moisture. Protect from direct sunlight. Protect from warmth. Do not keep at temperatures above 30 °C. Do not store at temperatures below -5 °C. Storage class: 3A Flammable liquids

8. Personal protection
   Personal protective equipment
   General protective measures. Avoid contact with eyes and skin. Do not inhale vapours. Cholinesterase activity of the worker should be supervised. Hygienic measures Observe the usual precautions when handling chemicals. Do not eat, drink or smoke during work time. Remove soiled clothing immediately. Clean hands and face at work intervals and after work. Store work clothing separately. Respiratory protection: Full
9. Physical and chemical properties

**Appearance**

- **Form:** Liquid
- **Colour:** Brownish yellow
- **Odour:** Typical Phosphoric acid ester odour
- **Flash point:** 30 °C
- **Ignition temperature:** 410 °C
- **Density:** approx. 1.05 g/cm³ at 20 °C
- **Solubility in water:** at 20 °C emulsifiable
- **pH value:** 2 to 4 at 20 °C (Determined as a 1% suspension in distilled water).

10. Stability and reactivity

**Thermal decomposition**

from 130 °C Exothermic decomposition

**Hazardous reactions**

Reactions with alkalies. Reactions with acids.

11. Toxicological information

**Acute oral toxicity**

LD50: 171.3 to 224 mg/kg
Species: rat, Method: OECD

**Acute dermal toxicity**

LD50: 1426 mg/kg
Species: rat (female), Method: OECD

**Irritant effect on skin**

Non-irritant
Species: rabbit, Method: OECD

**Irritant effect on eyes**

Strongly irritant
Species: Rabbit, Method: OECD

**Sensitization**

Non-sensitizing (Species: Guinea pig)

12. Ecological information

**Ecotoxic effect**

- **Fish toxicity**
  LC50 (96 h): 0.038 mg/l : Salmo spec.
- **Daphnia toxicity**
  EC50 (48 h): 1.3 micro-gr/l: Daphnia magna
- **Bacteria toxicity**
  EC10: 10 to 100 mg/l

**Further ecological information**

Because of harmful effects on water organisms should not be introduced into drains

13. Disposal considerations

**Product**

In accordance with local authority regulations, take to special waste incineration plant.

**Un-cleaned packaging**

Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed off as product waste.
14. Transport information

**Road transport**
ADR 6.1 / 72 C
Product characteristic 3017 ORGANOPHOSPHOR-PESTIZID, FLUESSIG, GIFTIG, ENTZUENDBAR (TRIAZOPHOS/XYLENE)
Hazard no. 63
Substance number 3017

**Marine transport**
IMDG/UN 6.1 / 3017 / III
Special classification MARINE POLLUTANT
EmS 6.1-01
MFAG 505
Correct technical name ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (40% TRIAZOPHOS / XYLENE)

**Air transport**
ICAO/IATA-DGR 6.1 / 3017 / III
Correct technical name ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE (40% TRIAZOPHOS / XYLENE)

15. Regulatory information

**Labelling in accordance with GefStoffV/EC**
Hazard warning labelling compulsory

**Hazard symbols**
T Toxic

**R phrases**
10 Flammable. 20/21 Harmful by inhalation and in contact with skin. 25 Toxic if swallowed. 41 Risk of serious damage to eyes.

**S phrases**
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 28.2 After contact with skin, wash immediately with water and soap. 36/37/39 Wear suitable protective clothing, gloves and eye/face protection. 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16. Other information

*This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.*