

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 Methaemoglobinemia:

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
Further information

Use self-contained breathing apparatus. 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

mask, filter A Hand protection: Gloves
(solvent-resistant) Eye protection: safety
glasses Skin protection: protective clothing

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/cm ³ 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
Method: DTA

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.