

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

Date of issue: 26/08/2016

Revision date:

Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Substance
Name : Phenthoate Tech. min 92%
Type of product : Biocide
UN-No. (ADR) : 3018

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Insecticide

1.3. Supplier's details

Simonis B.V.
7000 AP Doetinchem - The Netherlands
T +31 314 333 700 - F +31 314 344 167
agrochem@simonisbv.nl - <http://www.simonisbv.nl/>

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Remark
India	Poison Control Centre Amrita Institute of Medical Sciences & Research	Cochin	+91 98 952 82 388 (24h) +91 484 400 8056/+91 484 285 6034/+91 484 400 1234	
Philippines	National Poison Management & Control Center	Ward 14-A Room 100 Philippine General Hospital, Taft Avenue Manila	+632 524 10 78/+632 544 84 00/local 2311 (24h) +632 544 8400 local 3726	
Vietnam	Poison Control Center Bachmai Hospital	78 Giai Phong Avenue Ha Noi	+844 386 975 01 +844 386 937 31 extn 6821, 6822 or 9823	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 4 H302 Calculation method
Acute toxicity (dermal), Category 4 H312 Calculation method
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400 Calculation method
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410 Calculation method
Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-UN) :



GHS07

GHS09

Signal word (GHS-UN) : Warning
Hazard statements (GHS-UN) : H302+H312 - Harmful if swallowed or in contact with skin
H410 - Very toxic to aquatic life with long lasting effects
Precautionary statements (GHS-UN) : P264 - Wash hands thoroughly after handling hands
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment
P280 - Wear protective gloves, protective clothing, eye protection
P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P312 - Call a POISON CENTER, a doctor if you feel unwell
P330 - Rinse mouth
P362+P364 - Take off contaminated clothing and wash it before reuse

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

P391 - Collect spillage
P501 - Dispose of contents to an approved waste disposal plant

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Very toxic to aquatic life with long lasting effects, Harmful in contact with skin, Harmful if swallowed

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : Phenthoate Tech. min 92%

Substance identification codes: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Phenthoate	(CAS No) 2597-03-7	> 92	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : Take off contaminated clothing. Wash skin with plenty of water. Get medical advice if skin irritation persists.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting without medical advice. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Symptoms are among other things headache, dizziness, dullness, muscular asthenia etc.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Explosion hazard : No direct explosion hazard.

Reactivity : Stable under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid dust production.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. For further information refer to section 8 : "Exposure-controls/personal protection".

Emergency procedures : Ventilate area.

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

6.2. Environmental precautions

Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.
Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Provide good ventilation in process area to prevent formation of vapour. Do not breathe vapours, mist. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Concerning personal protective equipment to use, see item 8.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool well ventilated place. Keep container closed when not in use. Keep away from food, drink and animal feeding stuffs.
Incompatible products : Strong bases. Strong acids. Strong oxidation agent.
Heat and ignition sources : Keep away from heat and direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.
Other information : Do not eat, drink or smoke during use.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF EN 374 or equivalent)
Eye protection : Safety glasses. DIN EN 166
Skin and body protection : Wear suitable protective clothing. CE: EN 340
Respiratory protection : Dust formation: dust mask. (FFP2)



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : No data available
Colour : yellowish. red.
Odour : strong. garlic odour.
Odour threshold : No data available
pH : No data available
pH solution : No data available
Relative evaporation rate (butylacetate=1) : No data available
Relative evaporation rate (ether=1) : No data available
Melting point : 17 - 18 °C
Freezing point : No data available
Boiling point : 186 - 187 °C

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

Flash point	: 165 - 170 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 5.3 mPa (40°C)
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 1.226 g/cm ³ (20°C)
Relative gas density	: No data available
Solubility	: Water: 11 mg/l (25°C)
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, kinematic (calculated value) (40 °C)	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat and direct sunlight.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidation agent.

10.6. Hazardous decomposition products

Combustion generates: Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Oral: Harmful if swallowed.
Acute toxicity (dermal)	: Dermal: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

Phenthoate Tech. min 92%

LC50 inhalation rat (Vapours - mg/l/4h)	4.27 mg/l/4h
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Acute aquatic toxicity	: Very toxic to aquatic life.
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.
Classification procedure (Chronic aquatic toxicity)	: Calculation method

Phenthoate Tech. min 92%	
LC50 fishes 1	0.69 mg/l
LC50 fish 2	2.9 mg/l

12.2. Persistence and degradability

Phenthoate Tech. min 92%	
Persistence and degradability	No additional information available

12.3. Bioaccumulative potential

Phenthoate Tech. min 92%	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Phenthoate Tech. min 92%	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
Additional information	: Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

SECTION 14: Transport information

In accordance with IMDG / IATA / UN RTDG

14.1. UN number

UN-No. (UN RTDG)	: 3018
UN-No. (IMDG)	: 3018
UN-No. (IATA)	: 3018

14.2. Proper Shipping Name

Proper Shipping Name (UN RTDG)	: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (Phenthoate ; Phenthoate Tech. min 92%)
Proper Shipping Name (IMDG)	: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC
Proper Shipping Name (IATA)	: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

14.3. Transport hazard class(es)

UN RTDG

Transport hazard class(es) (UN RTDG)	: 6.1
Danger labels (UN RTDG)	: 6.1



Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

IMDG

Transport hazard class(es) (IMDG) : 6.1
Danger labels (IMDG) : 6.1



IATA

Transport hazard class(es) (IATA) : 6.1
Hazard labels (IATA) : 6.1



14.4. Packing group

Packing group (UN RTDG) : III
Packing group (IMDG) : III
Packing group (IATA) : III

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes
Other information : No supplementary information available

14.6. Special precautions for user

- UN RTDG

Special provisions (UN RTDG) : 61, 223, 274
Limited quantities (UN RTDG) : 5L
Excepted quantities (UN RTDG) : E1
Packing instruction (UN RTDG) : P001, IBC03, LP01
Portable tank and bulk container special instructions (UN RTDG) : T7
Portable tank and bulk container special provisions (UN RTDG) : TP2, TP28

- IMDG

Special provisions (IMDG) : 61, 223, 274
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) : T7
Tank special provisions (IMDG) : TP2, TP28
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES
Stowage category (IMDG) : A
Properties and observations (IMDG) : Liquid pesticides which present a very wide range of toxic hazard. Miscibility with water depends upon the composition. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No : 152

- IATA

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y642
PCA limited quantity max net quantity (IATA) : 2L

Phenthoate Tech. min 92%

Safety Data Sheet

according to the United Nations GHS (Rev. 5, 2013)

PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3, A4
ERG code (IATA)	: 6L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

SDS Major/Minor	: None
Date of issue	: 26/08/2016

Abbreviations and acronyms : SDS - Safety Data Sheet. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. PBT - Persistent Bioaccumulative Toxic. vPvB - Very Persistent and Very Bioaccumulative. IMDG - International Maritime Dangerous Goods. IATA - International Air Transport Association. LC50 - Median lethal concentration. LD50 - Median lethal dose. CAS - CAS (Chemical Abstracts Service) number.

Other information : REACH Disclaimer:
This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number). **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H-statements:

H302	Harmful if swallowed
H312	Harmful in contact with skin
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Safety Data Sheet applicable for regions : IN - India;PH – Philippines;VN - Vietnam

This Safety Data Sheet is compiled by :
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SDS UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product