

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : SEACTYL SENTRY
 Name : SEACTYL SENTRY
 Product code : SEACTYLSENTRY

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

Recommended use : Fertilizers

1.3. Details of the supplier of the safety data sheet

Manufacturer

TIMAC Agro USA, INC
 P.O. Box 888 - Route 724 & I-176
 READING, - USA
 T 1-800-545-5474
info-fds@roullier.com

1.4. Emergency telephone number

Emergency number : USA POISON CONTROL : 1-800-222-1222

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Flammable liquids, H227
 Category 4
 Serious eye H319
 damage/eye irritation,
 Category 2A
 Sensitisation — Skin, H317
 Category 1
 Reproductive toxicity, H361
 Category 2

Full text of H statements : see section 16

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) :

Warning

Hazard statements (GHS-US) :

H227 - Combustible liquid
 H317 - May cause an allergic skin reaction
 H319 - Causes serious eye irritation
 H361 - Suspected of damaging fertility or the unborn child

Precautionary statements (GHS-US) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
 P280 - Wear face shield, protective clothing, protective gloves
 P308+P313 - If exposed or concerned: Get medical advice/attention
 P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Oxygenated solvents		6.96	Flam. Liq. 4, H227
N-butylphosphorothioic triamide	(CAS No) 94317-64-3	1.86	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361
potassium hydroxide	(CAS No) 1310-58-3	0.348	Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314
preservative, liquid		0.261	Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400

Full text of hazard classes and H-statements : see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Get medical advice/attention if you feel unwell.
- First-aid measures after inhalation : Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
- First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after eye contact : Rinse thoroughly and plentifully with water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist if an irritation appears.
- First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Go into open air and ventilate suspected area. Do not induce vomiting without medical advice. Seek medical advice (show the label where possible).

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

Symptoms/injuries : (see section(s) : 2.1/2.3).

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 : water, carbon dioxide (CO₂), powder and foam.

5.2. Special hazards arising from the substance or mixture

Reactivity : The product is non-reactive under normal conditions of use, storage and transport. Combustible liquid.

5.3. Advice for firefighters

- Firefighting instructions : Use water moderately and if possible collect or contain it. Prevent fire fighting water from entering the environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.
- Specific methods : Keep away from combustible materials. Use extinguishing media appropriate for surrounding fire.
- Other information : Avoid pouring fire water down the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate ventilation. Eliminate every possible source of ignition. Avoid all contact with skin, eyes, or clothing. Wear personal protective equipment. Wear suitable respiratory equipment in case of insufficient ventilation. Keep away from combustible material.

6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing. Safety glasses. Protective gloves.
- Emergency procedures : Evacuate unnecessary personnel.

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6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment. Protective gloves. Wear suitable protective clothing and eye or face protection.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Absorb spilled material with sand or earth.
Methods for cleaning up : Mechanically recover the product. Wash away remainder with plenty of water. Scoop absorbed substance into closing containers. Do not allow into drains or water courses. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Other information : Avoid formation of vapours.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid formation of vapours. Do not get in eyes, on skin, or on clothing. Wear suitable protective clothing, gloves and eye or face protection. Do not eat, drink or smoke when using this product. Do not breathe gas, fumes, vapour or spray. Comply with applicable regulations. Always wash hands after handling the product. Wear suitable respiratory equipment in case of insufficient ventilation.
Hygiene measures : If on skin, take off contaminated clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke in areas where product is used. Shower after work using plenty of soap and water.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store locked up. Keep out of reach of children.
Storage conditions : Store in dry protected location to prevent any moisture contact. Keep only in the original container. Keep container closed when not in use.
Incompatible products : Refer to section 10 on incompatible materials.
Incompatible materials : combustible materials. Flammable materials.
Heat and ignition sources : Keep away from sources of ignition - No smoking.
Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.
Storage area : Keep out of frost. Store in dry, cool, well-ventilated area. Store away from heat/moisture. Remove ignition sources.
Special rules on packaging : Store in original container.
Packaging materials : Original packaging. plastic.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N-butylphosphorothioic triamide (94317-64-3)

Not applicable

Oxygenated solvents

Not applicable

preservative, liquid

Not applicable

potassium hydroxide (1310-58-3)

ACGIH	ACGIH STEL (mg/m ³)	2 mg/m ³
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8.2. Exposure controls

Personal protective equipment : Protective clothing. Gloves. Safety glasses. Dust/aerosol mask with filter type P1.



Materials for protective clothing : Wear suitable protective clothing. Polyvinylchloride (PVC).
Hand protection : Wear suitable gloves. Chemical resistant PVC gloves (to European standard EN 374 or equivalent).
Eye protection : Safety glasses. (according to standard EN 166).
Skin and body protection : Rubber boots.
Respiratory protection : Avoid formation of vapours. In case of insufficient ventilation, wear suitable respiratory equipment. Dust / anti-aerosol filter type P1 (according to standard EN 143).
Environmental exposure controls : Keep container closed when not in use. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
Other information : Do not drink, eat or smoke in the workplace. If on skin, take off contaminated clothing. Wash hands after working with the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Black
Odour : characteristic
Odour threshold : No data available
pH : 9
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Flash point : No data available
Relative evaporation rate (butylacetate=1) : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative vapour density at 20 °C : No data available
Relative density : No data available
Density : 1.08 kg/l
Solubility : completely soluble.
Log Pow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive limits : No data available
Explosive properties : No data available.
Oxidising properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Combustible liquid.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Gel.

10.5. Incompatible materials

Strong acids. oxidizing agents (peroxides, chromates, dichromates). Flammable or combustible materials. Copper and its alloys. Alkalis. Chlorates. Nitrites.

10.6. Hazardous decomposition products

Carbon dioxide. Ammonia solution. Phosphorus oxides. Sulphur dioxide. Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified
(Based on available data, the classification criteria are not met)

SEACTYL SENTRY	
Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

N-butylphosphorothioic triamide (94317-64-3)	
LD50 oral rat	2823 mg/kg (OECD 401 method)
LD50 dermal rat	> 2000 mg/kg (OECD 402 method)
ATE US (oral)	2823.000 mg/kg bodyweight

preservative, liquid	
ATE US (gases)	4500.000 ppmv/4h
ATE US (vapours)	11.000 mg/l/4h
ATE US (dust,mist)	1.500 mg/l/4h

potassium hydroxide (1310-58-3)	
LD50 oral rat	333 - 388 mg/l (OECD 425 method)
ATE US (oral)	500.000 mg/kg bodyweight

Skin corrosion/irritation : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
pH: 9

Serious eye damage/irritation : Causes serious eye irritation.
(No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
pH: 9

Respiratory or skin sensitisation : May cause an allergic skin reaction.
(No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

Germ cell mutagenicity : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation

Carcinogenicity : Not classified
(Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)

SEACTYL SENTRY	
IARC group	The principal components are not included in the I.A.R.C. list of carcinogenic substances

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Reproductive toxicity	: Suspected of damaging fertility or the unborn child. (No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met)

SEACTYL SENTRY

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
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Specific target organ toxicity (repeated exposure)	: Not classified (Based on available data, the classification criteria are not met)
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SEACTYL SENTRY

Additional information	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation
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Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met. No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation)
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation. Based on available data, the classification criteria are not met. Do not allow into drains or water courses.
Ecology - water	: Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

N-butylphosphorothioic triamide (94317-64-3)

LC50 fish 1	1140 mg/l
EC50 Daphnia 1	290 mg/l (OECD 202 method)

potassium hydroxide (1310-58-3)

NOEC (acute)	24h 28 mg/l OECD SIDS
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12.2. Persistence and degradability

SEACTYL SENTRY

Persistence and degradability	No study has been carried out for the moment on this mixture.
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potassium hydroxide (1310-58-3)

Persistence and degradability	Not applicable (inorganic substance).
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12.3. Bioaccumulative potential

SEACTYL SENTRY

Bioaccumulative potential	No study has been carried out for the moment on this mixture.
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N-butylphosphorothioic triamide (94317-64-3)

Log Kow	0.444
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potassium hydroxide (1310-58-3)

Bioaccumulative potential	Low bioaccumulation potential.
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12.4. Mobility in soil

SEACTYL SENTRY

Ecology - soil	No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.
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12.5. Other adverse effects

Other adverse effects : No study has been carried out for the moment on this mixture.
Effect on the global warming : No known effects from this product.
GWPmix comment : No known effects from this product.
Other information : No study has been carried out for the moment on this mixture.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point.
Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Disposal by incineration or reuse of the material through recycling after cleansing of product residues.
Ecology - waste materials : Do not allow to enter drains or water courses.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
Not applicable

TDG

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Oxygenated solvents	CAS No	6.96%
preservative, liquid	CAS No	0.261%

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

N-butylphosphorothioic triamide	CAS No 94317-64-3	1.86%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

N-butylphosphorothioic triamide (94317-64-3)

EPA TSCA Regulatory Flag	E - E - indicates a substance that is the subject of a Section 5(e) Consent Order under TSCA P - P - indicates a commenced PMN substance S - S - indicates a substance that is identified in a proposed or final Significant New Uses Rule
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potassium hydroxide (1310-58-3)

CERCLA RQ	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

CANADA

No additional information available

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potassium hydroxide (1310-58-3)

WHMIS Classification

Class D Division 1 Subdivision B - Toxic material causing immediate and serious toxic effects
Class E - Corrosive Material

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Data sources : Safety Data Sheet Supplier.

Full text of H-statements:

H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life

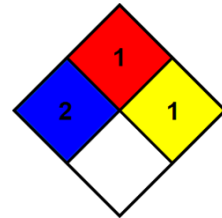
Abbreviations and acronyms:

CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ATE	Acute Toxicity Estimate
SDS	Safety Data Sheet
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

* - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

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