

# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	600000000047	Date of first issue: 2017/03/08

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TBPPI-75-AL

Other means of identification : None

#### Recommended use of the chemical and restrictions on use

Recommended use : polymerisation initiators

#### Manufacturer or supplier's details

Company : United Initiators GmbH

Address : Dr.-Gustav-Adolph-Str. 3  
82049 Pullach

Telephone : +49 / 89 / 74422 – 0

Emergency telephone number : +49 / 89 / 74422 – 0 (24 h)

E-mail address : contact@united-in.com

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 3

Organic peroxides : Type C

Acute toxicity (Oral) : Category 5

Acute toxicity (Inhalation) : Category 5

Acute toxicity (Dermal) : Category 5

Skin corrosion/irritation : Category 2

Skin sensitisation : Category 1

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

Aspiration hazard : Category 1

Short-term (acute) aquatic : Category 2

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

hazard

Long-term (chronic) aquatic hazard : Category 2

### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H226 Flammable liquid and vapour.  
H242 Heating may cause a fire.  
H303 + H313 + H333 May be harmful if swallowed, in contact with skin or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P220 Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.  
P233 Keep container tightly closed.  
P234 Keep only in original container.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P312 Call a POISON CENTER/ doctor if you feel unwell.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P370 + P378 In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.  
P391 Collect spillage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P410 Protect from sunlight.  
P411 + P235 Store at temperatures not exceeding -5 °C/ 23 °F. Keep cool.  
P420 Store away from other materials.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance  
Substance name : tert-butyl peroxyvalate  
CAS-No. : 927-07-1  
Synonyms : Propaneperoxoic acid, 2,2-dimethyl-, 1,1-dimethylethyl ester

### Components

Chemical Name	CAS-No.	Concentration (% w/w)
tert-butyl peroxyvalate	927-07-1	>= 70 -< 75
Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated	93685-81-5	>= 25 -< 30

### 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	600000000047	Date of first issue: 2017/03/08

---

Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus.  
Call a physician immediately.

### First aid measures for different exposure routes

- If inhaled : Call a physician or poison control centre immediately.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathed in, move person into fresh air.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
If on skin, rinse well with water.  
If on clothes, remove clothes.  
If symptoms persist, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Call a physician immediately.  
Contact a poison control center.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May be harmful if swallowed, in contact with skin or if inhaled.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
May cause respiratory irritation.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- Notes to physician : Treat symptomatically and supportively.

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## 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray jet  
Alcohol-resistant foam

# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	60000000047	Date of first issue: 2017/03/08

---

- Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire-fighting : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapours which may auto-ignite.  
The product burns violently.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
The product will float on water and can be reignited on surface water.  
Cool closed containers exposed to fire with water spray.
- Specific extinguishing methods : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
  
Do not use a solid water stream as it may scatter and spread fire.  
Remove undamaged containers from fire area if it is safe to do so.  
Use water spray to cool unopened containers.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.  
Use personal protective equipment.

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### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Follow safe handling advice and personal protective equipment recommendations.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Never return spills in original containers for re-use.  
Treat recovered material as described in the section "Disposal considerations".
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for containment and cleaning up : Contact with incompatible substances can cause decomposition at or below SADT.  
Clear spills immediately.  
Suppress (knock down) gases/vapours/mists with a water spray jet.  
To clean the floor and all objects contaminated by this material, use plenty of water.  
Soak up with inert absorbent material.  
Isolate waste and do not reuse.  
Non-sparking tools should be used.  
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

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### 7. HANDLING AND STORAGE

#### Handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on protection against fire and explosion : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
Keep away from heat and sources of ignition.  
Use only explosion-proof equipment.  
Keep away from combustible material.

Advice on safe handling : Do not swallow.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
Avoid formation of aerosol.  
Take precautionary measures against static discharges.  
Never return any product to the container from which it was originally removed.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid confinement.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash thoroughly after handling.  
For personal protection see section 8.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	60000000047	Date of first issue: 2017/03/08

---

used.  
Protect from contamination.

### Storage

Conditions for safe storage : Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Store in accordance with the particular national regulations.

Materials to avoid : Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Recommended storage temperature : -15 - -5 °C

Further information on storage stability : No decomposition if stored normally.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### Biological occupational exposure limits

Contains no substances with biological exposure indices.

**Engineering measures** : Minimize workplace exposure concentrations.

### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Filter type : ABEK-filter

### Hand protection

Material : Nitrile rubber  
Break through time : 30 min  
Glove thickness : 0.40 mm

Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

- Eye protection : Tightly fitting safety goggles  
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Wear as appropriate:  
Flame retardant antistatic protective clothing.
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Hygiene measures : Keep away from food and drink.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and immediately after handling the product.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : colourless
- Odour : ester-like
- Odour Threshold : No data available
- pH : substance/mixture is non-soluble (in water)
- Melting point/range : < -15 °C



# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

Boiling point/boiling range : Decomposition: Decomposes below the boiling point.

Flash point : 44 °C  
Method: ISO 3679

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) : Flammable liquid and vapour.

Self-ignition : The substance or mixture is not classified as pyrophoric.

Upper explosion limit / Upper flammability limit : 4 %(V)  
(for a component of this mixture)

Lower explosion limit / Lower flammability limit : 0.5 %(V)  
(for a component of this mixture)

Vapour pressure : 4.02 hPa (38 °C)

Relative vapour density : No data available

Relative density : not determined

Density : 0.85 g/cm<sup>3</sup> (20 °C)

Solubility(ies)  
Water solubility : 1.49 g/l practically insoluble (20 °C)

Partition coefficient: n-octanol/water : log Pow: 3.17 (25 °C)

Auto-ignition temperature : not determined

Self-Accelerating decomposition temperature (SADT) : 25 °C  
Method: UN-Test H.4  
SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

Viscosity  
Viscosity, dynamic : 1.7 mPa.s (20 °C)

Explosive properties : Not explosive In use, may form flammable/explosive vapour-air mixture.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

Oxidizing properties : The substance or mixture is not classified as oxidizing.  
Organic peroxide

Self-heating substances : The substance or mixture is not classified as self heating.

Refractive index : 1.414 (20 °C)

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### 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.

Conditions to avoid : Protect from contamination.  
Contact with incompatible substances can cause decomposition at or below SADT.  
Heat, flames and sparks.  
Avoid confinement.

Incompatible materials : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

Hazardous decomposition products : Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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### 11. TOXICOLOGICAL INFORMATION

Symptoms of Overexposure : None known.

#### Acute toxicity

May be harmful if swallowed, in contact with skin or if inhaled.

#### Product:

Acute oral toxicity : LD50 (Rat): 4,169 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 7.79 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 2,500 mg/kg  
Method: OECD Test Guideline 402

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# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	600000000047	Date of first issue: 2017/03/08

---

### Components:

#### **tert-butyl peroxyvalate:**

Acute oral toxicity : LD50 (Rat): 4,169 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 7.79 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 2,500 mg/kg  
Method: OECD Test Guideline 402

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5,000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Causes skin irritation.

### Product:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

Remarks : May cause skin irritation in susceptible persons.

### Components:

#### **tert-butyl peroxyvalate:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Result : Repeated exposure may cause skin dryness or cracking.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	600000000047	Date of first issue: 2017/03/08

---

### Serious eye damage/eye irritation

Not classified based on available information.

#### **Product:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

#### **Components:**

##### **tert-butyl peroxyphosphate:**

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Result : No eye irritation

### Respiratory or skin sensitisation

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.

Remarks : Causes sensitisation.

#### **Components:**

##### **tert-butyl peroxyphosphate:**

Exposure routes : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : May cause sensitisation by skin contact.



# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

### **Product:**

Remarks : This information is not available.

### **Components:**

#### **tert-butyl peroxyvalate:**

Remarks : This information is not available.

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Carcinogenicity - Assessment : No known effect.

### **Reproductive toxicity**

Not classified based on available information.

### **Product:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat, male and female  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 150 mg/kg body weight  
Method: OECD Test Guideline 422

### **Components:**

#### **tert-butyl peroxyvalate:**

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test  
Species: Rat, male and female  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 150 mg/kg body weight  
Method: OECD Test Guideline 422

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Reproductive toxicity - Assessment : No known effect.

### **STOT - single exposure**

May cause respiratory irritation.

### **Product:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

### Components:

#### **tert-butyl peroxyvalate:**

Exposure routes : Inhalation  
Target Organs : Respiratory Tract  
Assessment : May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified based on available information.

### Product:

Remarks : No data available

### Components:

#### **tert-butyl peroxyvalate:**

Remarks : No data available

#### **Repeated dose toxicity**

### Product:

Species : Rat  
NOAEL : 150 mg/kg  
Application Route : oral (gavage)  
Exposure time : 28 d  
Method : OECD Test Guideline 422

Species : Rat  
NOAEL : 160 mg/kg  
Application Route : oral (gavage)  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

### Components:

#### **tert-butyl peroxyvalate:**

Species : Rat  
NOAEL : 150 mg/kg  
Application Route : oral (gavage)  
Exposure time : 28 d  
Method : OECD Test Guideline 422

Species : Rat  
NOAEL : 160 mg/kg  
Application Route : oral (gavage)  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Remarks : Based on data from similar materials

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Product:**

May be fatal if swallowed and enters airways.

### **Components:**

#### **tert-butyl peroxyvalate:**

May be fatal if swallowed and enters airways.

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

May be fatal if swallowed and enters airways.

### **Further information**

#### **Product:**

Remarks : Solvents may degrease the skin.

#### **Components:**

#### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Remarks : May cause headache and dizziness.

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## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 18.85 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.99 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 2.94 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,417 mg/l  
End point: Growth rate  
Exposure time: 72 h



# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.293 mg/l

End point: Growth rate

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 10,000 mg/l

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### Components:

#### tert-butyl peroxyvalerate:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 18.85 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 6.99 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 2.94 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,417 mg/l

End point: Growth rate

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0.293 mg/l

End point: Growth rate

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 10,000 mg/l

#### Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 0.04 mg/l  
Exposure time: 48 h

Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic : IC50 (algae): > 0.04 mg/l

# SAFETY DATA SHEET

## TBPPI-75-AL



Version 4.1      Revision Date: 2023/11/23      SDS Number: 600000000047      Date of last issue: 2020/11/25  
Date of first issue: 2017/03/08

---

plants      Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.

### Ecotoxicology Assessment

Acute aquatic toxicity      :    This product has no known ecotoxicological effects.  
Chronic aquatic toxicity      :    May cause long lasting harmful effects to aquatic life.

### Persistence and degradability

#### Product:

Biodegradability      :    Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D

#### Components:

##### **tert-butyl peroxyphosphate:**

Biodegradability      :    Result: Not readily biodegradable.  
Method: OECD Test Guideline 301D

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Biodegradability      :    Result: Not readily biodegradable.

### Bioaccumulative potential

#### Components:

##### **tert-butyl peroxyphosphate:**

Partition coefficient: n-octanol/water      :    log Pow: 3.17 (25 °C)

##### **Hydrocarbons, C4, 1,3-butadiene-free, polymerised., triisobutylene fraction, hydrogenated:**

Partition coefficient: n-octanol/water      :    log Pow: 5.94 - 6.16 (20 °C)  
Remarks: The value is calculated

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information      :    An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

# SAFETY DATA SHEET

## TBPPI-75-AL



Version	Revision Date:	SDS Number:	Date of last issue: 2020/11/25
4.1	2023/11/23	600000000047	Date of first issue: 2017/03/08

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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Dispose of wastes in an approved waste disposal facility.
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.  
Dispose of in accordance with local regulations.
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### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : UN 3113  
Proper shipping name : ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED  
(tert-BUTYL PEROXYPIVALATE)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2

##### IATA-DGR

Not permitted for transport

##### IMDG-Code

- UN number : UN 3113  
Proper shipping name : ORGANIC PEROXIDE TYPE C, LIQUID, TEMPERATURE CONTROLLED  
(tert-BUTYL PEROXYPIVALATE)  
Class : 5.2  
Packing group : Not assigned by regulation  
Labels : 5.2  
EmS Code : F-F, S-R  
Marine pollutant : yes

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

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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### Additional advice

Temperature controlled transport.:  
Control temperature : 0 °C  
Emergency temperature : 10 °C

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## 15. REGULATORY INFORMATION

### National regulatory information

Gefahrgruppe nach TRGS 741: Ib, S+ (German regulatory requirements)  
Produkt unterliegt dem Sprengstoffgesetz (SprengG; Stoffgruppe C). (German regulatory requirements)  
Regulations on Occupational Safety and Health Facilities  
Standards for the Storage, Cleanup, Handling and Disposal of Industrial Waste  
Regulations on Labelling and Hazard Communication of Hazardous Chemicals  
Rules on Road Traffic Safety  
Establishment Standards and Safety Control Regulations for Manufacturing, Storing, Processing  
Public Hazardous Substances and Flammable Pressurized Gases Places: Quantity subject to control

### The components of this product are reported in the following inventories:

TCSI (TW) : On the inventory, or in compliance with the inventory  
DSL (CA) : All components of this product are on the Canadian DSL  
PICCS (PH) : On the inventory, or in compliance with the inventory  
IECSC (CN) : On the inventory, or in compliance with the inventory

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## 16. OTHER INFORMATION

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>  
Responsible Department :  
Prepared by :  
Revision Date : 2023/11/23  
Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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These safety instructions also apply to empty packaging which may still contain product residues.

Date format : yyyy/mm/dd

### Full text of other abbreviations

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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