

## THPS 75%

Version number: 2.0

### SECTION 1: Identification

#### 1.1 Product identifier

Trade name **THPS 75%**

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

Relevant identified uses Industrial use

Uses advised against Do not use for private purposes (household)

#### 1.3 Details of the supplier of the safety data sheet

Valudor Products, LLC  
179 Calle Magdalena Suite 100  
Encinitas, California CA 92024  
United States

Telephone: +1 (760) 635 8500  
e-mail: info@valudor.com  
Website: www.valudor.com

#### 1.4 Emergency telephone number

Emergency information 800-535-5053 (Infotrac)

As above or nearest toxicological information center.

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Classification |                                   |          |                           |                  |
|----------------|-----------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                      | Category | Hazard class and category | Hazard statement |
| A.10           | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| A.11           | acute toxicity (inhal.)           | 3        | Acute Tox. 3              | H331             |
| A.3            | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |
| A.4S           | skin sensitization                | 1        | Skin Sens. 1              | H317             |
| A.7            | reproductive toxicity             | 2        | Repr. 2                   | H361d            |

For full text of abbreviations: see SECTION 16

#### 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word danger

# THPS 75%

Version number: 2.0

## Pictograms

GHS05, GHS06, GHS07,  
GHS08



## Hazard statements

|       |                                         |
|-------|-----------------------------------------|
| H302  | Harmful if swallowed.                   |
| H317  | May cause an allergic skin reaction.    |
| H318  | Causes serious eye damage.              |
| H331  | Toxic if inhaled.                       |
| H361d | Suspected of damaging the unborn child. |

## Precautionary statements

|                     |                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| P201                | Obtain special instructions before use.                                                                                                                                   |
| P261                | Avoid breathing mist/vapors/spray.                                                                                                                                        |
| P270                | Do not eat, drink or smoke when using this product.                                                                                                                       |
| P271                | Use only outdoors or in a well-ventilated area.                                                                                                                           |
| P272                | Contaminated work clothing must not be allowed out of the workplace.                                                                                                      |
| P280                | Wear protective gloves/protective clothing/eye protection/face protection.                                                                                                |
| P302+P352           | If on skin: Wash with plenty of water.                                                                                                                                    |
| P304+P340           | If inhaled: Remove person to fresh air and keep comfortable for breathing.                                                                                                |
| P305+P351+P338+P310 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. |
| P321                | Specific treatment (see on this label).                                                                                                                                   |
| P330                | Rinse mouth.                                                                                                                                                              |
| P362+P364           | Take off contaminated clothing and wash it before reuse.                                                                                                                  |
| P405                | Store locked up.                                                                                                                                                          |
| P501                | Dispose of contents/container to an authorized waste treatment facility.                                                                                                  |

|                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| <b>Hazardous ingredients for labelling</b> | tetrakis(hydroxymethyl)phosphonium sulphate(2:1) |
|--------------------------------------------|--------------------------------------------------|

## 2.3 Other hazards

### Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

# THPS 75%

Version number: 2.0

## Description of the mixture

| Hazardous ingredients                             |                   |     |                                                                                                            |                                                                                    |       |                       |
|---------------------------------------------------|-------------------|-----|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------|-----------------------|
| Name of substance                                 | Identifier        | Wt% | Classification acc. to GHS                                                                                 | Pictograms                                                                         | Notes | Specific Conc. Limits |
| tetrakis(hydroxy-methyl)phosphonium sulphate(2:1) | CAS No 55566-30-8 | 75  | Acute Tox. 4 / H302<br>Acute Tox. 2 / H330<br>Eye Dam. 1 / H318<br>Skin Sens. 1A / H317<br>Repr. 2 / H361d |  | -     | -                     |

## Remarks

For full text of H-phrases: see SECTION 16

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Self-protection of the first aider.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

Take off immediately all contaminated clothing.

In all cases of doubt, or when symptoms persist, seek medical advice.

In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Provide fresh air.

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Get medical advice/attention.

Wash contaminated clothing before reuse.

#### Following eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Call a physician immediately.

#### Notes for the doctor

None.

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

This information is not available.

## **4.3 Indication of any immediate medical attention and special treatment needed**

None.

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>), coordinate firefighting measures to the fire surroundings

### **5.2 Special hazards arising from the substance or mixture**

Combustible.

Hazardous decomposition products: Section 10.

If heated: Danger of bursting container.

#### **Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)

### **5.3 Advice for firefighters**

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

#### **Special protective equipment for firefighters**

chemical protective clothing, Wear self-contained breathing apparatus

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Remove persons to safety.

Ventilate affected area.

Eliminate all ignition sources if safe to do so.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### **For emergency responders**

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### **6.2 Environmental precautions**

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

Stop leak if safe to do so.

### **6.3 Methods and material for containment and cleaning up**

## **Advice on how to contain a spill**

Set up barriers.  
Covering of drains.

## **Advice on how to clean up a spill**

Collect spillage.  
Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

## **Appropriate containment techniques**

Use of adsorbent materials.

## **Other information relating to spills and releases**

Place in appropriate containers for disposal.  
Ventilate affected area.

## **6.4 Reference to other sections**

Hazardous combustion products: see section 5.  
Personal protective equipment: see section 8.  
Incompatible materials: see section 10.  
Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Do not get in eyes, on skin, or on clothing.  
Do not breathe vapor/spray.

### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.  
Keep away from sources of ignition - No smoking.

### **Measures to protect the environment**

Avoid release to the environment.  
Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.  
Wash hands after use.  
Preventive skin protection (barrier creams/ointments) is recommended.  
Remove contaminated clothing and protective equipment before entering eating areas.

### **7.2 Conditions for safe storage, including any incompatibilities**

#### **Flammability hazards**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Incompatible substances or mixtures**

Incompatible materials: see section 10.

#### **Protect against external exposure, such as**

# THPS 75%

Version number: 2.0

heat, frost

## Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

## Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

Provision of sufficient ventilation.

## Specific designs for storage rooms or vessels

Keep container tightly closed and in a well-ventilated place.

Keep cool.

## Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

The following constituents are the only constituents of the product which have a PEL, a TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

| Occupational exposure limit values (Workplace Exposure Limits) |                                                  |            |            |           |             |            |              |          |             |
|----------------------------------------------------------------|--------------------------------------------------|------------|------------|-----------|-------------|------------|--------------|----------|-------------|
| Country                                                        | Name of agent                                    | CAS No     | Identifier | TWA [ppm] | TWA [mg/m³] | STEL [ppm] | STEL [mg/m³] | Notation | Source      |
| US                                                             | tetrakis(hydroxymethyl)phosphonium sulfate (2:1) | 55566-30-8 | TLV®       | -         | 2           | -          | -            | -        | ACGIH® 2024 |

#### Notation

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

### 8.2 Exposure controls

Avoid contact during pregnancy/while nursing.

#### Appropriate engineering controls

Use local and general ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

# THPS 75%

Version number: 2.0

## Hand protection

| Protective gloves        |                    |                                          |
|--------------------------|--------------------|------------------------------------------|
| Material                 | Material thickness | Breakthrough times of the glove material |
| no information available | -                  | -                                        |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## Body protection

Protective clothing against liquid chemicals.

## Respiratory protection

In case of inadequate ventilation wear respiratory protection.

During spraying wear suitable respiratory equipment.

## Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                |                |
|----------------|----------------|
| Physical state | liquid         |
| Color          | colorless      |
| Odor           | characteristic |
| Odor threshold | not determined |

#### Other safety parameters

|                                                          |                         |
|----------------------------------------------------------|-------------------------|
| pH (value)                                               | ~3 – 5                  |
| Melting point/freezing point                             | ~-40 °C                 |
| Boiling point or initial boiling point and boiling range | ~109 °C                 |
| Flash point                                              | 96 °C                   |
| Evaporation rate                                         | not determined          |
| Flammability (solid, gas)                                | not relevant<br>(fluid) |
| Explosive limits                                         | not determined          |

# THPS 75%

Version number: 2.0

|                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| <b>Vapor pressure</b>                                           | 1.7 kPa at 25 °C                                               |
| <b>Density and/or relative density</b>                          |                                                                |
| Density                                                         | ~1.38 g/ml                                                     |
| Relative density / Relative vapour density                      | >1 (air = 1)<br>1.4 (water = 1)                                |
| <b>Solubility(ies)</b>                                          |                                                                |
| Water solubility                                                | soluble                                                        |
| <b>Partition coefficient</b>                                    |                                                                |
| n-octanol/water (log KOW)                                       | not determined                                                 |
| <b>Auto-ignition temperature</b>                                | ~279 °F                                                        |
| <b>Decomposition temperature</b>                                | not relevant                                                   |
| <b>Viscosity</b>                                                |                                                                |
| <b>Kinematic viscosity</b>                                      | not determined                                                 |
| <b>Dynamic viscosity</b>                                        | not determined                                                 |
| <b>Explosive properties</b>                                     | none                                                           |
| <b>Oxidizing properties</b>                                     | none                                                           |
| <b>Information for relevant hazard classes according to GHS</b> | hazard classes acc. to GHS (physical hazards):<br>not relevant |

## 9.2 Other information

|                                          |                                                                         |
|------------------------------------------|-------------------------------------------------------------------------|
| Temperature class (USA, acc. to NEC 500) | T4<br>(maximum permissible surface temperature on the equipment: 135°C) |
|------------------------------------------|-------------------------------------------------------------------------|

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Dangerous/dangerous reactions with Oxidizers, Base.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
UV-radiation/sunlight.

### 10.5 Incompatible materials

# THPS 75%

Version number: 2.0

acids, bases, strong oxidizer

## 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on:  
Ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Test data are not available for the complete mixture.

Harmful if swallowed.

Toxic if inhaled.

#### Dermal.

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

| Acute toxicity of components                     |            |                       |           |               |         |                    |        |
|--------------------------------------------------|------------|-----------------------|-----------|---------------|---------|--------------------|--------|
| Name of substance                                | CAS No     | Exposure route        | End-point | Value         | Species | Method             | Source |
| tetrakis(hydroxymethyl)phosphonium sulphate(2:1) | 55566-30-8 | oral                  | LD50      | 431 mg/kg     | rat     | OECD Guideline 401 | ECHA   |
| tetrakis(hydroxymethyl)phosphonium sulphate(2:1) | 55566-30-8 | inhalation: dust/mist | LC50      | 0.443 mg/l/4h | rat     | OECD Guideline 403 | ECHA   |

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### Respiratory or skin sensitization

##### Skin sensitization

May cause an allergic skin reaction.

##### Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

### IARC Monographs

| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans |        |                |        |
|-------------------------------------------------------------------|--------|----------------|--------|
| Name of substance                                                 | CAS No | Classification | Number |
| tetrakis(hydroxymethyl)phosphonium sulphate(2:1)                  |        | 3              | -      |

### Legend

3 Not classifiable as to carcinogenicity in humans

## National Toxicology Program (United States)

None of the ingredients are listed.

## OSHA Carcinogens

None of the ingredients are listed.

## Reproductive toxicity

Suspected of damaging the unborn child.

## Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

## 11.2 Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

Based on available data, the classification criteria are not met.

# THPS 75%

Version number: 2.0

## Aquatic toxicity (acute) of components

| Name of substance                                       | CAS No     | Endpoint | Exposure time | Value     | Species                                   | Method                   | Source    |
|---------------------------------------------------------|------------|----------|---------------|-----------|-------------------------------------------|--------------------------|-----------|
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | LC50     | 48 h          | 0.45 mg/l | Acartia tonsa,<br>marine cope-<br>pod     | -                        | ECHA      |
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | LC50     | 96 h          | 71 mg/l   | rainbow trout<br>(Oncorhynchus<br>mykiss) | OECD<br>Guideline<br>203 | ECHA Chem |
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | EC50     | 48 h          | 11.3 mg/l | daphnia<br>magna                          | OECD<br>Guideline<br>202 | ECHA Chem |
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | ErC50    | 72 h          | 0.12 mg/l | marine algae                              | DIN EN ISO<br>10253      | ECHA      |

## Aquatic toxicity (chronic)

No data available.

## Other information

| Name of substance                                       | CAS No     | Endpoint | Exposure time | Value    | Species             | Method                   | Source    |
|---------------------------------------------------------|------------|----------|---------------|----------|---------------------|--------------------------|-----------|
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | EC50     | 3 h           | 18 mg/l  | microorgan-<br>isms | OECD<br>Guideline<br>209 | ECHA Chem |
| tetrakis(hydroxymethyl)p<br>hosphonium<br>sulphate(2:1) | 55566-30-8 | NOEC     | 3 h           | 2.4 mg/l | microorgan-<br>isms | OECD<br>Guideline<br>209 | ECHA Chem |

## 12.2 Persistence and degradability

### Biodegradation

No data available.

### Persistence

No data available.

## 12.3 Bioaccumulative potential

# THPS 75%

Version number: 2.0

## Bioaccumulative potential of components

| Name of substance                                | CAS No     | BCF | Log KOW |
|--------------------------------------------------|------------|-----|---------|
| tetrakis(hydroxymethyl)phosphonium sulphate(2:1) | 55566-30-8 | -   | -9.8    |

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of  $\geq 0.1\%$ .

### 12.6 Other adverse effects

Data are not available.

#### Remarks

Keep away from drains, surface and ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

DOT UN2810

IMDG-Code UN2810

ICAO-TI UN2810

### 14.2 UN proper shipping name

DOT Toxic liquid, organic, n.o.s.

IMDG-Code TOXIC LIQUID, ORGANIC, N.O.S.

ICAO-TI Toxic liquid, organic, n.o.s.

Technical name (hazardous ingredients) tetrakis(hydroxymethyl)phosphonium sulphate(2:1)

# THPS 75%

Version number: 2.0

## 14.3 Transport hazard class(es)

|           |     |
|-----------|-----|
| DOT       | 6.1 |
| IMDG-Code | 6.1 |
| ICAO-TI   | 6.1 |

## 14.4 Packing group

|           |     |
|-----------|-----|
| DOT       | III |
| IMDG-Code | III |
| ICAO-TI   | III |

## 14.5 Environmental hazards

hazardous to the aquatic environment

**Environmentally hazardous substance (aquatic environment)** tetrakis(hydroxymethyl)phosphonium sulphate(2:1)

## 14.6 Special precautions for user

-

## 14.7 Transport in bulk according to IMO instruments

-

## 14.8 Information for each of the UN Model Regulations

### Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information

Particulars in the shipper's declaration UN2810, Toxic liquid, organic, n.o.s., (tetrakis(hydroxymethyl)phosphonium sulphate(2:1)), 6.1, III, environmentally hazardous

Danger label(s) 6.1, fish and tree



Environmental hazards yes  
(hazardous to the aquatic environment)

Special provisions (SP) IB3, T7, TP1, TP28

ERG No 153

### International Maritime Dangerous Goods Code (IMDG) Additional information

Marine pollutant yes  
(hazardous to the aquatic environment)  
(Tetrakis(hydroxymethyl)phosphoniumsulfat (2:1))

Danger label(s) 6.1, fish and tree



|                          |          |
|--------------------------|----------|
| Special provisions (SP)  | 223, 274 |
| Excepted quantities (EQ) | E1       |
| Limited quantities (LQ)  | 5 L      |
| EmS                      | F-A, S-A |
| Stowage category         | A        |

## International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Environmental hazards | yes<br>(hazardous to the aquatic environment) |
| Danger label(s)       | 6.1                                           |



|                          |              |
|--------------------------|--------------|
| Special provisions (SP)  | A3, A4, A137 |
| Excepted quantities (EQ) | E1           |
| Limited quantities (LQ)  | 2 L          |

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

|                                           |                                                            |
|-------------------------------------------|------------------------------------------------------------|
| <b>Toxic Substance Control Act (TSCA)</b> | All ingredients are listed (ACTIVE) or exempt from listing |
|-------------------------------------------|------------------------------------------------------------|

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

##### The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

None of the ingredients are listed

##### Specific Toxic Chemical Listings (EPCRA Section 313)

None of the ingredients are listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

##### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

None of the ingredients are listed

#### Clean Air Act

None of the ingredients are listed

#### Right to Know Hazardous Substance List

##### Toxic or Hazardous Substance List (MA-TURA)

None of the ingredients are listed

#### Hazardous Substances List (MN-ERTK)

# THPS 75%

Version number: 2.0

None of the ingredients are listed

## Hazardous Substance List (NJ-RTK)

| Name of substance                                | Name acc. to inventory                                                                                                                                                             | CAS No     | Remarks | Classifications | Listed in | Substance number | DOT number |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------------|-----------|------------------|------------|
| tetrakis(hydroxymethyl)phosphonium sulphate(2:1) | TETRAKIS (HYDROXY-METHYL) PHOSPHONIUM SULFATE<br>see Fact Sheet on # 4201<br>TETRAKIS (HYDROXYMETHYL) PHOSPHONIUM CHLORIDE (PHOSPHONIUM, TETRAKIS(HYDROXY-METHYL)-, SULFATE (2:1)) | 55566-30-8 | -       |                 | 2         | 4202             | -          |

### Legend

- 2 "2009 TLVs® and BEIs®, Threshold Limit Values and Biological Exposure Indices," American Conference of Governmental Industrial Hygienists (ACGIH), 2009.

## Hazardous Substance List (Chapter 323) (PA-RTK)

None of the ingredients are listed

## Hazardous Substance List (RI-RTK)

None of the ingredients are listed

## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

None of the ingredients are listed

## Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

None of the ingredients are listed

## SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2023-06-02

Date of last revision: 2025-07-18.

## Abbreviations and acronyms

| Abbr.         | Descriptions of used abbreviations                                                                                                                                                                                                                                                                                                                               |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT | 49 CFR U.S. Department of Transportation                                                                                                                                                                                                                                                                                                                         |
| ACGIH® 2024   | From ACGIH®, 2024 TLVs® and BEIs® Book. Copyright 2024. Reprinted with permission. Information on the proper use of the TLVs® and BEIs®: <a href="http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement">http://www.acgih.org/tlv-bei-guidelines/policies-procedures-presentations/tlv-bei-position-statement</a> |

# THPS 75%

Version number: 2.0

| Abbr.            | Descriptions of used abbreviations                                                                                                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute Tox.       | Acute toxicity                                                                                                                                                                   |
| BCF              | Bioconcentration factor                                                                                                                                                          |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| DOT              | Department of Transportation (USA)                                                                                                                                               |
| EC50             | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EmS              | Emergency Schedule                                                                                                                                                               |
| ErC50            | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| ERG No           | Emergency Response Guidebook - Number                                                                                                                                            |
| Eye Dam.         | Seriously damaging to the eye                                                                                                                                                    |
| Eye Irrit.       | Irritant to the eye                                                                                                                                                              |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| IARC             | International Agency for Research on Cancer                                                                                                                                      |
| IARC Mono-graphs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans                                                                                                                |
| IATA             | International Air Transport Association                                                                                                                                          |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO             | International Civil Aviation Organization                                                                                                                                        |
| ICAO-TI          | Technical instructions for the safe transport of dangerous goods by air                                                                                                          |
| IMDG             | International Maritime Dangerous Goods Code                                                                                                                                      |
| IMDG-Code        | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50             | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50             | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                 |
| log KOW          | n-Octanol/water                                                                                                                                                                  |
| NOEC             | No Observed Effect Concentration                                                                                                                                                 |
| OSHA             | Occupational Safety and Health Administration (United States)                                                                                                                    |
| PBT              | Persistent, Bioaccumulative and Toxic                                                                                                                                            |
| ppm              | Parts per million                                                                                                                                                                |
| Repr.            | Reproductive toxicity                                                                                                                                                            |
| RTECS            | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information)                                                                              |
| Skin Sens.       | Skin sensitization                                                                                                                                                               |

# THPS 75%

Version number: 2.0

| Abbr. | Descriptions of used abbreviations       |
|-------|------------------------------------------|
| STEL  | Short-term exposure limit                |
| TLV®  | Threshold Limit Values                   |
| TWA   | Time-weighted average                    |
| vPvB  | Very Persistent and very Bioaccumulative |

## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 (May 20, 2024 eff. July 19, 2024).

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## Classification procedure

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code  | Text                                    |
|-------|-----------------------------------------|
| H302  | Harmful if swallowed.                   |
| H317  | May cause an allergic skin reaction.    |
| H318  | Causes serious eye damage.              |
| H330  | Fatal if inhaled.                       |
| H331  | Toxic if inhaled.                       |
| H361d | Suspected of damaging the unborn child. |

## Responsible for the safety data sheet

Chemical Regulatory Compliance Com- Telephone: +1 (630) 410-1660  
pany e-Mail: GHS@crc-us.com  
Jasper, GA Website: www.crc-us.com  
USA

## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.