## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | **B 2492** |
| Other means of Identification | : | **Liquid Calcium Zinc Compound** |

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

| | | |
|---|---|---|
| Use of the Substance/Mixture | : | Manufacture of plastics products<br>Polymer additive<br>Stabilizer |
| Restrictions on Use | : | None known |

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

| | | |
|---|---|---|
| Company | : | Baerlocher Production USA LLC<br>5890 Highland Ridge Drive<br>Cincinnati, OH 45232 |
| Telephone | : | Day 330-602-1528, 330-602-1531 or -1530 |
| | : | Night 513-207-1620 or 513-604-2327 |
| E-mail address | : | Hotline.PS@baerlocher.com |
| Responsible/issuing person | : | Product Safety Department |

### 1.4 Emergency telephone number (0 - 24 h)

Tel.: 800-424-9300 USA or 703-527-3887

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

| | |
|---|---|
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Eye irritation, Category 2 | H319: Causes serious eye irritation. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Germ cell mutagenicity, Category 2 | H341: Suspected of causing genetic defects. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Aspiration hazard, Category 1 | H304: May be fatal if swallowed and enters airways. |
| Chronic aquatic toxicity, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

| | |
|---|---|
| Harmful | R65: Harmful: may cause lung damage if swallowed. |
| Mutagenic Category 3 | R68: Possible risk of irreversible effects. |
| Sensitising | R43: May cause sensitisation by skin contact. |
| Irritant | R36/38: Irritating to eyes and skin. |
| Dangerous for the environment | R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

### 2.2 Label elements

Hazard pictograms :

Signal word : Danger

| | | |
|---|---|---|
| Hazard statements : | H304 | May be fatal if swallowed and enters airways. |
| | H315 | Causes skin irritation. |
| | H317 | May cause an allergic skin reaction. |
| | H319 | Causes serious eye irritation. |
| | H336 | May cause drowsiness or dizziness. |
| | H341 | Suspected of causing genetic defects. |
| | H411 | Toxic to aquatic life with long lasting effects. |
| Precautionary statements : | **Prevention:** | |
| | P201 | Obtain special instructions before use. |
| | P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| | P280 | Wear protective gloves. |
| | P281 | Use personal protective equipment as required. |
| | **Response:** | |
| | P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. |
| | P331 | Do NOT induce vomiting. |

### 2.3 Other hazards

The product is combustible.
May produce an allergic reaction.

## 3. Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Preparation containing zinc carboxylate in organic solvent.

**Hazardous components**

| Chemical Name | CAS-No. | Concentration [%] |
|---|---|---|
| Distillates (petroleum), hydrotreated light | 64742-47-8 | >= 25* |
| Isodecyl diphenyl phosphite | 26544-23-0 | < 20* |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | < 10* |
| Phenol, 2,4-Bis (1-methyl-1-phenylethyl) - | 2772-45-4 | < 10* |
| Isodecanol (mixed isomers) | 25339-17-7 | < 10* |
| Phenol, 2 - (1-Methyl-1-phenylethyl) -4 - (1,1,3,3-Tetramethyl-butyl) - | 73936-80-8 | < 10* |
| 4 - (α, α-dimethylbenzyl) phenol | 599-64-4 | < 10* |
| Zinc compounds | Trade Secret* | < 10* |
| Triisodecyl phosphite | 25448-25-3 | < 10* |
| Triphenyl phosphite | 101-02-0 | < 10* |
| Diisodecyl phenyl phosphite | 25550-98-5 | < 10* |
| Phenol | 108-95-2 | < 3* |

*Trade Secret – The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

## 4. First aid measures

### 4.1 Description of first aid measures

General advice : Remove and wash contaminated clothing before re-use.

If inhaled : Move to fresh air.

In case of skin contact : Wash off with soap and plenty of water.
Take off contaminated clothing and shoes immediately.

In case of eye contact : Rinse with plenty of water.

If swallowed : Consult a doctor and show this safety datasheet.

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

Symptoms : No information available.

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

Treatment : Treat symptomatically.

## 5. Firefighting measures

### 5.1 Extinguishing media

| | | |
|---|---|---|
| Suitable extinguishing media | : | Water spray<br>Foam<br>Carbon dioxide (CO2)<br>Dry chemical<br>Sand |
| Unsuitable extinguishing media | : | High volume water jet |

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

| | | |
|---|---|---|
| Specific hazards during firefighting | : | Smoke and fumes, toxic. |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Release of Phenol by hydrolysis. |

## 6. Accidental release measures

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

| | | |
|---|---|---|
| Personal precautions | : | Remove all sources of ignition.<br>Ensure adequate ventilation.<br>Avoid contact with skin and eyes.<br>Use personal protective equipment. |

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.<br>Avoid subsoil penetration. |

### 6.3 Methods and materials for containment and cleaning up

| | | |
|---|---|---|
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

### 6.4 Reference to other sections

For personal protection see section 8.

## 7. Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | Take precautionary measures against static discharges. |

Keep away from sources of ignition - No smoking.
Provide sufficient air exchange and/or exhaust in work rooms.

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

| | | |
|---|---|---|
| Requirements for storage areas and containers | : | Store at room temperature in the original container. Keep container tightly closed in a dry and well-ventilated place. |
| Further information on storage conditions | : | Handle in accordance with good industrial hygiene and safety practice. |
| German storage class | : | 10 Combustible liquids |

### 7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.

## 8. Exposure controls/personal protection

### 8.1 Control parameters

| | | Regulatory Limits | | | Recommended Limits | |
|---|---|---|---|---|---|---|
| | | OSHA PEL | | Cal/OSHA PEL | NIOSH REL | ACGIH TLV |
| Substance | CAS No. | ppm | mg/m³ | 8-hour TWA (ST) STEL (C) Ceiling | Up to 10-hour TWA (ST) STEL (C) Ceiling | 8-hour TWA (ST) STEL (C) Ceiling |
| Distillates (Petroleum), hydrotreated light | 64742-47-8 | | | | | 200 mg/m³ |
| Phenol | 108-95-2 | 5 | 19 | 5 ppm | 5 ppm (C) 15.6 ppm [15-min] | 5 ppm |

### 8.2 Exposure controls

**Engineering measures**

Local exhaust

**Personal protective equipment**

Respiratory protection : In case of insufficient ventilation:

| | | |
|---|---|---|
| | | Protective mask against solvent vapours (A2 Filter) |
| Hand protection | : | protective gloves acc. to EN 374, e.g. neoprene, thickness: min. 0,7 mm |
| Eye protection | : | Safety glasses |
| Skin and body protection | : | Long sleeved clothing<br>Rubber apron |
| Hygiene measures | : | When using do not eat or drink.<br>Do not smoke.<br>Wash hands before breaks and at the end of workday.<br>Shower or bathe at the end of working.<br>Keep working clothes separately. |
| Protective measures | : | antistatic shoes |

**Environmental exposure controls**

| | | |
|---|---|---|
| General advice | : | Do not flush into surface water or sanitary sewer system.<br>Avoid subsoil penetration. |

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | yellow |
| Odour | : | characteristic |
| pH | : | no data available |
| Boiling point/boiling range | : | 237 - 277 °C, Value refers to the solvent. |
| Flash point | : | > 100 °C |
| Lower explosion limit | : | ca. 0,5 %(V), 25 °C, Value refers to the solvent. |
| Upper explosion limit | : | ca. 4,6 %(V), 25 °C, Value refers to the solvent. |
| Vapour pressure | : | 0,03 hPa, 20 °C, Value refers to the solvent. |
| Density | : | 0,8 - 1,0 g/cm3 |
| Water solubility | : | slightly soluble |
| Partition coefficient: n-octanol/water | : | no data available |
| Auto-ignition temperature | : | ca. 243 °C, Value refers to the solvent. |
| Ignition temperature | : | no data available |
| Viscosity, dynamic | : | no data available |

| | | |
|---|---|---|
| Viscosity, kinematic | : | no data available |
| Odor Threshold | : | No data available |
| Melting/Freezing Point | : | No data available |
| Evaporation Rate | : | No data available |
| Flammability | : | No data available |
| Vapor Density | : | No data available |
| Decomposition Temperature | : | No data available |

### 9.2 Other information

No data available

## 10. Stability and reactivity

### 10.1 Reactivity

Stable at normal ambient temperature and pressure.

### 10.2 Chemical stability

No decomposition if stored normally.

### 10.3 Possibility of hazardous reactions

| | | |
|---|---|---|
| Hazardous reactions | : | Vapours may form explosive mixture with air. |

### 10.4 Conditions to avoid

| | | |
|---|---|---|
| Conditions to avoid | : | Sources of ignition |

### 10.5 Incompatible materials

| | | |
|---|---|---|
| Materials to avoid | : | Strong oxidizing agents |

### 10.6 Hazardous decomposition products

| | | |
|---|---|---|
| Hazardous decomposition products | : | No decomposition if used as directed. |

## 11. Toxicological information

### 11.1 Information on toxicological effects

**Product**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 2.000 mg/kg, Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 20 mg/l, 4 h, vapour, Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2.000 mg/kg, Calculation method |

**Components:**

**Distillates (petroleum), hydrotreated light :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: > 5.000 mg/kg, rat, OECD Test Guideline 420, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | LC50: > 5,28 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | rabbit, Result: irritating, standardised international/national methodology, 24 h, GLP: yes |
| Serious eye damage/eye irritation | : | rabbit, Result: not irritating, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : | Skin sensitisation |
| | : | Buehler Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, GLP: yes, Based on available data, the classification criteria are not met. |
| | : | Respiratory sensitisation |
| | : | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471 |
| | : | In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: yes, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | Genotoxicity in vivo, rat, intraperitoneally, OECD Test Guideline 478, Result: negative |
| | : | Genotoxicity in vivo, mouse, intraperitoneally, OECD Test Guideline 478, Result: negative |
| | : | Genotoxicity in vivo, mouse, Inhalation, OECD Test Guideline 478, Result: negative |
| | : | Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), rat, intraperitoneally, OECD Test Guideline 475, GLP: yes, Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | mouse, Skin contact, OECD Test Guideline 451, GLP: yes, Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | One-generation reproduction toxicity test, rat, Oral |

| | | |
|---|---|---|
| | : | Screening for reproductive/developmental toxicity, rat, Skin contact, NOAEL: > 494 mg/kg, OECD Test Guideline 421, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | rat, Inhalation, OECD Test Guideline 414 |
| | : | rat, Oral, OECD Test Guideline 414, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Assessment: May cause drowsiness or dizziness. |
| STOT - repeated exposure | : | rat, Oral, Exposure time: <= 90 d, Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | rat / mouse, Inhalation, Exposure time: 90 d, OECD Test Guideline 413, Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | rat, Dermal, Exposure time: 28 d, OECD Test Guideline 410, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | May be fatal if swallowed and enters airways. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Isodecyl diphenyl phosphite :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: 3.840 mg/kg, rat, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | LC50: > 8,4 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | rabbit, Result: slight irritation, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | : | rabbit, Result: Mild eye irritation, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : | Skin sensitisation |
| | : | Maximisation Test, guinea pig, Result: Sensitising, standardised international/national methodology |
| | : | Respiratory sensitisation, Based on available data, the |

classification criteria are not met.

Germ cell mutagenicity

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Screening for reproductive/developmental toxicity, rat, Exposure time: 16 w, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | rat, Oral, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | rat, Oral, Exposure time: 16 w, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Naphtha (petroleum), hydrotreated heavy :**

| | | |
|---|---|---|
| Acute oral toxicity | : | Read-across (Analogy) |
| | : | LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | Read-across (Analogy) |
| | : | LC50: > 5 mg/l, 4 h, rat, vapour, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| | : | Read-across (Analogy) |
| | : | LC50: > 5 mg/l, 8 h, rat, vapour, OECD Test Guideline 403, |

| | | |
|---|---|---|
| | | GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | Read-across (Analogy) |
| | : | LD50: >= 3.160 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | Read-across (Analogy) |
| | : | rabbit, Result: not irritating, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | : | Read-across (Analogy) |
| | : | rabbit, Result: not irritating, OECD Test Guideline 405, GLP: yes, Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : | Skin sensitisation, Read-across (Analogy) |
| | : | Maximisation Test, guinea pig, Result: not sensitising, OECD Test Guideline 406, GLP: no, Based on available data, the classification criteria are not met. |
| | : | Respiratory sensitisation, Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Read-across (Analogy) |
| | : | In vitro gene mutation study in mammalian cells, mouse lymphoma cells, Result: negative, OECD Test Guideline 476, GLP: no |
| | : | Read-across (Analogy) |
| | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | Read-across (Analogy) |
| | : | Mutagenicity (in vitro mammalian cytogenetic test), Human lymphocytes, Result: negative, OECD Test Guideline 473, GLP: yes, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | Read-across (Analogy) |
| | : | In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative |
| | : | Read-across (Analogy) |
| | : | in vivo assay, rat, Inhalation, OECD Test Guideline 478, GLP: no, Result: negative, |

| | | |
|---|---|---|
| | | Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Read-across (Analogy) |
| | : | rat / mouse, Inhalation, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Read-across (Analogy) |
| | : | Screening for reproductive/developmental toxicity, rat, Oral, Test period: 46 days, NOAEL: 1.000 mg/kg, OECD Test Guideline 421 |
| | : | Read-across (Analogy) |
| | : | Screening for reproductive/developmental toxicity, rat, Inhalation, Test period: 8 weeks, NOAEL: 300 ppm, OECD Test Guideline 421, GLP: no |
| | : | Read-across (Analogy) |
| | : | One-generation reproduction toxicity test, rat, Oral, NOAEL: 1.500 mg/kg, OECD Test Guideline 415 |
| | : | Read-across (Analogy) |
| | : | Screening for reproductive/developmental toxicity, rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | Read-across (Analogy) |
| | : | rat, Inhalation, NOAEL: >= 900 ppm, standardised international/national methodology, GLP: no, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | Read-across (Analogy) |
| STOT - repeated exposure | : | rat, Oral, NOAEL: 5.000 mg/kg, OECD Test Guideline 408, GLP: yes |
| STOT - repeated exposure | : | Read-across (Analogy) |
| STOT - repeated exposure | : | rat, Inhalation, NOAEL: 200 ppm, OECD Test Guideline 413, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | May be fatal if swallowed and enters airways. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**4 - (α, α-dimethylbenzyl) phenol :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: 1.770 mg/kg, rat |

**Zinc compounds :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: > 2.000 mg/kg, rat, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | Not classified due to lack of data. |
| Acute dermal toxicity | : | Read-across (Analogy) |
| | : | LD50: > 2.000 mg/kg, rat, OECD Test Guideline 402, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | Read-across (Analogy) |
| | : | rabbit, Result: slight irritation, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | : | Read-across (Analogy) |
| | : | rabbit, Result: irritating, OECD Test Guideline 405, GLP: yes |
| Respiratory or skin sensitisation | : | Skin sensitisation |
| | : | Read-across (Analogy), Based on available data, the classification criteria are not met. |
| | : | Respiratory sensitisation |
| | : | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Read-across (Analogy) |
| | : | Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Read-across (Analogy) |
| | : | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Read-across (Analogy) |
| | : | Suspected of damaging the unborn child. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | Read-across (Analogy), Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Triisodecyl phosphite :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: 13.800 mg/kg, rat, OECD Test Guideline 401, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | Read-across (Analogy) |
| | : | LC50: > 12,6 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | Read-across (Analogy) |
| | : | LD50: > 5.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | rabbit, Result: slight irritation, standardised international/national methodology, 24 h, Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | : | rabbit, Result: not irritating, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : | LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Read-across (Analogy) |
| | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | Read-across (Analogy) |
| | : | DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | Read-across (Analogy) |
| | : | In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative,<br>Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Screening for reproductive/developmental toxicity, rat, Oral, Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |

| | | |
|---|---|---|
| STOT - repeated exposure | : | rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Triphenyl phosphite :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: 1.590 mg/kg, rat, OECD Test Guideline 401, GLP: yes |
| Acute inhalation toxicity | : | LC50: > 6,7 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | guinea pig, Result: slight irritation, standardised international/national methodology, 24 h |
| Serious eye damage/eye irritation | : | rabbit, Result: irritating, OECD Test Guideline 405, GLP: no |
| Respiratory or skin sensitisation | : | Skin sensitisation |
| | : | LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes |
| | : | Respiratory sensitisation, Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | DNA repair-suspension assay, Bacteria, Result: negative, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Screening for reproductive/developmental toxicity, rat, Oral, NOAEL: F1: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | rat, Oral, NOAEL: 15 mg/kg bw/day, OECD Test Guideline 422, GLP: yes, Based on available data, the classification |

| | | |
|---|---|---|
| | | criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | rat, Oral, Exposure time: 16 weeks, NOAEL: 15 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Diisodecyl phenyl phosphite :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: > 5.000 mg/kg, rat, OECD Test Guideline 401, GLP: no, Based on available data, the classification criteria are not met. |
| Acute inhalation toxicity | : | LC50: > 11,7 mg/l, 1 h, rat, dust/mist, OECD Test Guideline 403, GLP: yes, Based on available data, the classification criteria are not met. |
| Acute dermal toxicity | : | LD50: > 2.000 mg/kg, rabbit, OECD Test Guideline 402, GLP: yes, Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | : | rabbit, Result: slight irritation, OECD Test Guideline 404, GLP: yes, Based on available data, the classification criteria are not met. |
| Serious eye damage/eye irritation | : | rabbit, Result: not irritating, OECD Test Guideline 405, GLP: no, Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | : | Skin sensitisation |
| | : | LLNA, mouse, Result: Sensitising, OECD Test Guideline 429, GLP: yes |
| | : | Respiratory sensitisation, Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | DNA repair-suspension assay, Bacteria, Result: negative, standardised international/national methodology, GLP: yes, Based on available data, the classification criteria are not met. |
| Genotoxicity in vivo | : | In vivo micronucleus test, mouse, Oral, OECD Test Guideline 474, GLP: yes, Result: negative, |

| | | |
|---|---|---|
| | | Based on available data, the classification criteria are not met. |
| Carcinogenicity | : | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Read-across (Analogy) |
| | : | Screening for reproductive/developmental toxicity, rat, Oral, Test period: 8 weeks, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | Read-across (Analogy) |
| | : | rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | Read-across (Analogy) |
| STOT - repeated exposure | : | rat, Oral, NOAEL: 1.000 mg/kg, OECD Test Guideline 422, GLP: yes, Based on available data, the classification criteria are not met. |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

**Phenol :**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50: 340 - 540 mg/kg, rat, OECD Test Guideline 401 |
| Acute inhalation toxicity | : | LC0: 0,9 mg/l, 8 h, rat, dust/mist, OECD Test Guideline 403 |
| | : | LC50: > 0,9 mg/l, 4 h, rat, dust/mist, OECD Test Guideline 403 |
| Acute dermal toxicity | : | LD50: 660 mg/kg bw, rat(female), OECD Test Guideline 402 |
| Skin corrosion/irritation | : | Result: irritating, Regulation (EC) No. 761/2009, B.46., 1 h, GLP: yes |
| | : | Result: Corrosive, OECD Test Guideline 431, 3 min - 1 h, GLP: yes |
| | : | rabbit, Result: Corrosive, standardised international/national methodology, 24 h |
| | : | rat, Result: Corrosive, 1 min |
| Serious eye damage/eye irritation | : | rabbit, Result: Corrosive, OECD Test Guideline 405 |
| Respiratory or skin sensitisation | : | Skin sensitisation |

| | | |
|---|---|---|
| | : | Buehler Test, guinea pig, Result: not sensitising, OECD Test Guideline 406 |
| | : | LLNA, mouse, Result: not sensitising, Based on available data, the classification criteria are not met. |
| | : | Respiratory sensitisation, Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | | |
| Genotoxicity in vitro | : | Mutagenicity (Salmonella typhimurium - reverse mutation assay), Bacteria, Result: negative, OECD Test Guideline 471, GLP: yes |
| | : | Mutagenicity (in vitro mammalian cytogenetic test), CHO, Result: positive, OECD Test Guideline 473 |
| Genotoxicity in vivo | : | In vivo micronucleus test, mouse, 24 - 48 h, OECD Test Guideline 474, GLP: yes, Result: positive |
| Carcinogenicity | : | mouse, Exposure time: 103 weeks, Oral, OECD Test Guideline 451 |
| | : | rat, Exposure time: 103 weeks, Oral, OECD Test Guideline 451, Based on available data, the classification criteria are not met. |
| Reproductive toxicity | : | Two-generation reproductive toxicity, rat, Oral, OECD Test Guideline 416, GLP: yes, Based on available data, the classification criteria are not met. |
| Teratogenicity | : | rat, Test period: 14 d, Oral, standardised international/national methodology, GLP: yes |
| | : | mouse, Test period: 12 d, Oral, standardised international/national methodology, Based on available data, the classification criteria are not met. |
| STOT - single exposure | : | Remarks: Based on available data, the classification criteria are not met. |
| STOT - repeated exposure | : | May cause damage to organs through prolonged or repeated exposure., Kidney, Liver, Nervous system, Skin, Heart, Immune system, Lungs, Bone marrow |
| | : | Remarks: Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Category 2 |
| Aspiration toxicity | : | Based on available data, the classification criteria are not met. |
| Further information | : | CMR effects, Carcinogenicity, Mutagenicity, Reproductive toxicity, Hazard assessment, Category 1A, Category 1B, Based on available data, the classification criteria are not met. |
| | : | Likely route of exposure, Inhalation, Ingestion, Skin contact |

### 11.2 Carcinogenicity

Contains no known or suspected carcinogens listed by IARC, NTP or OSHA at or above reportable quantities.

## 12. Ecological information

### 12.1 Toxicity

**Components:**

**Distillates (petroleum), hydrotreated light :**

| | | |
|---|---|---|
| Toxicity to fish | : | LL50: 2,5 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50: 1,4 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to algae | : | EL50: 1,3 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to bacteria | : | LL50: 677,9 mg/l, 72 h, Tetrahymena pyriformis, QSAR, GLP: no |
| Toxicity to fish (Chronic toxicity) | : | NOEL: 0,098 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR, GLP: no |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEL: 0,48 mg/l, 21 d, Daphnia magna (Water flea), semi-static test, OECD Test Guideline 211, GLP: yes, Value refered to the Water accumulated fraction (WAF). |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Based on available data, the classification criteria are not met. |
| Chronic aquatic toxicity | : | Toxic to aquatic life with long lasting effects. |

**Isodecyl diphenyl phosphite :**

| | | |
|---|---|---|
| Toxicity to fish | : | study technically not feasible |
| Toxicity to daphnia and other aquatic invertebrates | : | study technically not feasible |
| Toxicity to algae | : | study technically not feasible |
| Toxicity to bacteria | : | study technically not feasible |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Based on available data, the classification criteria are not met. |
| Chronic aquatic toxicity | : | Based on available data, the classification criteria are not met. |

**Naphtha (petroleum), hydrotreated heavy :**

| | | |
|---|---|---|
| Toxicity to fish | : | LL50: > 1.000 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), semi-static test, OECD Test Guideline 203, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to daphnia and other aquatic invertebrates | : | EL50: > 1.000 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to algae | : | NOEL: 1.000 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes, Value refered to the Water accumulated fraction (WAF). |
| Toxicity to bacteria | : | EL50: > 1.000 mg/l, 48 h, Tetrahymena pyriformis, QSAR, GLP: no |
| Toxicity to fish (Chronic toxicity) | : | NOEL: 0,101 mg/l, 28 d, Oncorhynchus mykiss (rainbow trout), QSAR, GLP: no |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEL: 0,176 mg/l, 21 d, Daphnia magna (Water flea), QSAR, GLP: no |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Based on available data, the classification criteria are not met. |
| Chronic aquatic toxicity | : | Based on available data, the classification criteria are not met. |

**Phenol, 2 - (1-Methyl-1-phenylethyl) -4 - (1,1,3,3-Tetramethyl-butyl) - :**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50: 1 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout) |

**4 - (α, α-dimethylbenzyl) phenol :**

| | | |
|---|---|---|
| Toxicity to bacteria | : | EC50: 1,4 mg/l, 72 h |

**Zinc compounds :**

| | | |
|---|---|---|
| Toxicity to fish | : | Read-across (Analogy) |
| | : | LC50: 100 mg/l, 96 h, Cyprinus carpio (Carp), OECD Test Guideline 203, GLP: yes |
| Toxicity to daphnia and other aquatic invertebrates | : | Read-across (Analogy) |
| | : | EC50: 5 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes |
| Toxicity to algae | : | Read-across (Analogy) |
| | : | EC50: 2,72 mg/l, 72 h, Pseudokirchneriella subcapitata (green algae), static test, OECD Test Guideline 201, GLP: yes |
| Toxicity to bacteria | : | IC50: > 100 mg/l, 3 h, activated sludge, static test, OECD Test Guideline 209 |
| Toxicity to fish (Chronic | : | |

| | | |
|---|---|---|
| toxicity) | | Read-across (Analogy)<br>NOEC: 0,044 - 0,530 mg Zn/L, Fresh water<br><br>Read-across (Analogy)<br>NOEC: 0,025 mg Zn/L, Marine water |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | Read-across (Analogy)<br><br>NOEC: 0,037 - 0,400 mg Zn/L, Fresh water<br><br>Read-across (Analogy)<br>NOEC: 0,0056 - 0,9 mg Zn/L, Marine water |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Based on available data, the classification criteria are not met. |
| Chronic aquatic toxicity | : | Harmful to aquatic life with long lasting effects. |

**Triisodecyl phosphite :**

| | | |
|---|---|---|
| Toxicity to fish | : | study technically not feasible |
| Toxicity to daphnia and other aquatic invertebrates | : | study technically not feasible |
| Toxicity to algae | : | study technically not feasible |
| Toxicity to bacteria | : | study technically not feasible |
| Toxicity to fish (Chronic toxicity) | : | study technically not feasible |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | study technically not feasible |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Based on available data, the classification criteria are not met. |
| Chronic aquatic toxicity | : | Based on available data, the classification criteria are not met. |

**Triphenyl phosphite :**

| | | |
|---|---|---|
| Toxicity to fish | : | study technically not feasible |
| Toxicity to daphnia and other aquatic invertebrates | : | study technically not feasible |
| Toxicity to algae | : | study technically not feasible |
| Toxicity to bacteria | : | study scientifically unjustified |

**Ecotoxicology Assessment**

| | | |
|---|---|---|
| Acute aquatic toxicity | : | Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life. |
| Chronic aquatic toxicity | : | Classification, Labelling according to EC Directives, Regulation (EC) No 1272/2008, Annex VI, Table 3.1, Very toxic to aquatic life with long lasting effects. |

**Diisodecyl phenyl phosphite :**

| | | |
|---|---|---|
| Toxicity to fish | : | > 100 mg/l, 48 h, Leuciscus idus (Golden orfe), static test, OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50: 0,2 mg/l, 48 h, Daphnia magna (Water flea), static test, OECD Test Guideline 202, GLP: yes |
| Toxicity to algae | : | EC50: 45 mg/l, 72 h, Desmodesmus subspicatus (green algae), static test, OECD Test Guideline 201, GLP: yes |

**Phenol :**

| | | |
|---|---|---|
| Toxicity to fish | : | NOEC: 4 mg/l, 14 d, Poecilia reticulata (guppy), semi-static test, OECD Test Guideline 204, GLP: yes |
| | : | LC50: 8,9 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout), flow-through test, standardised international/national methodology |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50: 3,1 mg/l, 48 h, Ceriodaphnia dubia (water flea), static test, standardised international/national methodology, GLP: no |
| Toxicity to algae | : | EC50: 61,1 mg/l, 96 h, Pseudokirchneriella subcapitata (green algae), static test, standardised international/national methodology |
| | : | EC50: 157 mg phenol/L, 7 d, Lemna minor (duckweed), static test, standardised international/national methodology, GLP: no |
| | : | EC50: 61,82 mg/L, 7 d, Lemna minor (duckweed), Growth inhibition, standardised international/national methodology, GLP: yes |
| Toxicity to bacteria | : | IC50: 21 mg/l, 24 h, Bacteria, GLP: no |
| Toxicity to fish (Chronic toxicity) | : | NOEC: 0,077 mg/l, 60 d, Cirrhina mrigala, semi-static test |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 0,16 mg/l, 16 d, Daphnia magna (Water flea), semi-static test, standardised international/national methodology |

**12.2 Persistence and degradability**

**Components:**

**Distillates (petroleum), hydrotreated light :**

Biodegradability : aerobic, 61 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

**Isodecyl diphenyl phosphite :**

Biodegradability : aerobic, 0,14 %, Exposure time: 28 d, activated sludge, OECD Test Guideline 301D,
Not readily biodegradable.

**Naphtha (petroleum), hydrotreated heavy :**

Biodegradability :
Read-across (Analogy)
: aerobic, 80 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301 F, GLP: yes

:
Read-across (Analogy)
: aerobic, 69 %, Result: Readily biodegradable., Exposure time: 28 d, Marine water, OECD Test Guideline 306, GLP: no

:
Read-across (Analogy)
: aerobic, > 60 %, Result: Readily biodegradable., Exposure time: 61 d, Soil, OECD Test Guideline 304A, GLP: no

**Zinc compounds :**

Biodegradability :
Read-across (Analogy)
: aerobic, 70 %, Result: Readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301D, GLP: yes

**Triisodecyl phosphite :**

Biodegradability : aerobic, 0,47 %, Result: Not readily biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301D

**Triphenyl phosphite :**

Biodegradability : aerobic, 2,46 %, Result: Not readily biodegradable., Exposure time: 28 d, OECD Test Guideline 301D, GLP: No information available.

**Diisodecyl phenyl phosphite :**

Biodegradability : aerobic, 10 %, Result: Inherently biodegradable., Exposure time: 28 d, activated sludge, OECD Test Guideline 301 B, GLP: yes

**Phenol :**

Biodegradability : Ready biodegradability, Result: Readily biodegradable., Exposure time: 10 d, activated sludge, OECD Test Guideline 301

: aerobic, Result: Biodegradable, Exposure time: 20 d, Marine

water

: anaerobic, Result: Biodegradable, Exposure time: 50 d, activated sludge, standardised international/national methodology

: aerobic, Result: Readily biodegradable., Exposure time: 3 d, Estuary sediment, standardised international/national methodology

: anaerobic, Result: Biodegradable, Exposure time: 42 d, activated sludge, standardised international/national methodology

: aerobic, Result: Biodegradable, Exposure time: 70 d, Soil

**12.3 Bioaccumulative potential**

**Components:**

**Distillates (petroleum), hydrotreated light :**

Bioaccumulation :
no data available

**Isodecyl diphenyl phosphite :**

Bioaccumulation : Bioconcentration factor (BCF): 606,5, QSAR

**Naphtha (petroleum), hydrotreated heavy :**

Bioaccumulation :
study scientifically unjustified

**Zinc compounds :**

Bioaccumulation :
Read-across (Analogy), This substance is not considered to be bioaccumulating.

**Triisodecyl phosphite :**

Bioaccumulation :
study scientifically unjustified

**Triphenyl phosphite :**

Bioaccumulation : Bioconcentration factor (BCF): 862,2 - 10.902, QSAR, Hydrolysis, not considered

**Diisodecyl phenyl phosphite :**

Bioaccumulation : Bioconcentration factor (BCF): 33,27 - 606,5, QSAR

**Phenol :**

Bioaccumulation : Brachydanio rerio, Exposure time: 5 h, 25 °C, Bioconcentration factor (BCF): 17,5, standardised international/national methodology, Bioaccumulation is unlikely.

**12.4 Mobility in soil**

**Components:**

**Distillates (petroleum), hydrotreated light :**

Mobility : QSAR, Predicted distribution to environmental compartments, Air

Physico-chemical : The product is slightly soluble in water. It can be largely

removability : eliminated from the water by abiotic processes, e. g. mechanical separation.

**Isodecyl diphenyl phosphite :**
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

**Naphtha (petroleum), hydrotreated heavy :**
Mobility : QSAR, Predicted distribution to environmental compartments, Air, Sediment

**Zinc compounds :**
Mobility : not applicable

**Triisodecyl phosphite :**
Mobility : QSAR, Predicted distribution to environmental compartments, Soil, Sediment

**Triphenyl phosphite :**
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

**Diisodecyl phenyl phosphite :**
Mobility : QSAR, Predicted distribution to environmental compartments, Sediment, Soil

**Phenol :**
Mobility : Predicted distribution to environmental compartments, Water

### 12.5 Results of PBT and vPvB assessment

**Components:**

**Distillates (petroleum), hydrotreated light :**
Assessment : Based on available data, the classification criteria are not met.

**Isodecyl diphenyl phosphite :**
Assessment : Based on available data, the classification criteria are not met.

**Naphtha (petroleum), hydrotreated heavy :**
Assessment : Based on available data, the classification criteria are not met.

**Zinc compounds :**
Assessment : Based on available data, the classification criteria are not met.

**Triisodecyl phosphite :**
Assessment : Based on available data, the classification criteria are not met.

**Triphenyl phosphite :**
Assessment : Based on available data, the classification criteria are not met.

**Diisodecyl phenyl phosphite :**
Assessment : Based on available data, the classification criteria are not met.

**Phenol :**
Assessment : Based on available data, the classification criteria are not met.

### 12.6 Other adverse effects

**Distillates (petroleum), hydrotreated light :**
Further information : No information available.

**Isodecyl diphenyl phosphite :**
Further information : No information available.

**Naphtha (petroleum), hydrotreated heavy :**
Further information : No information available.

**Zinc compounds :**
Further information : No information available.

**Triisodecyl phosphite :**
Further information : No information available.

**Triphenyl phosphite :**
Further information : No information available.

**Diisodecyl phenyl phosphite :**
Further information : No information available.

**Phenol :**
Further information : No information available.

## 13. Disposal considerations

### 13.1 Waste treatment methods

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

## 14. Transport information

### 14.1 UN number

**DOT**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

### 14.2 Proper shipping name

**DOT**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

### 14.3 Transport hazard class

**DOT**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

### 14.4 Packing group

**DOT**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.5 Environmental hazards**
**DOT**
Not dangerous goods
**IMDG**
Not dangerous goods
**IATA**
Not dangerous goods

**14.6 Special precautions for user**
See this safety data sheet chapter 6. - 8.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Remarks : No transport according to Annex II of MARPOL 73/78 and the IBC Code

## 15. Regulatory information

**Section 313 Supplier Notification (USA)**

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

| Component | CAS/313 Category Code | Wt (%) |
|---|---|---|
| Zinc compounds | N982 | 2.7 |
| Phenol | 108-95-2 | 0 - 1 |

**National Legislation:**

**Registration Status:**

| | | |
|---|---|---|
| EINECS | : | Not listed |
| TSCA | : | listed |
| DSL | : | Not listed |
| AICS | : | Not listed |
| ENCS | : | Not listed |
| ECL | : | Not listed |
| PICCS | : | Not listed |
| CHINA | : | Not listed |

## 16. Other information

**Date of Preparation or last change: 19.06.2015**

**HMIS Rating (USA)**

| | | |
|---|---|---|
| Health | : | 2 |
| Flammability | : | 1 |
| Reactivity | : | 1 |
| Personal Protection | : | G |

| | | |
|---|---|---|
| HTS # | : | 3812.30.9000 |

**Full text of R-phrases**

| | |
|---|---|
| R10 | Flammable. |
| R23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| R34 | Causes burns. |
| R36 | Irritating to eyes. |
| R36/37/38 | Irritating to eyes, respiratory system and skin. |
| R36/38 | Irritating to eyes and skin. |
| R38 | Irritating to skin. |
| R43 | May cause sensitisation by skin contact. |
| R48/20/21/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. |
| R51 | Toxic to aquatic organisms. |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R52 | Harmful to aquatic organisms. |
| R53 | May cause long-term adverse effects in the aquatic environment. |
| R63 | Possible risk of harm to the unborn child. |
| R65 | Harmful: may cause lung damage if swallowed. |
| R67 | Vapours may cause drowsiness and dizziness. |
| R68 | Possible risk of irreversible effects. |

**Full text of H-Statements**

| | |
|---|---|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H341 | Suspected of causing genetic defects. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |

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