# Safety Data Sheet according to (EC) No 1907/2006 as amended



LOCTITE STYCAST W 67 PTB known as STYCAST W 67 PART B
3,213 KG

SDS No. : 373743
V004.0
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**
LOCTITE STYCAST W 67 PTB known as STYCAST W 67 PART B 3,213 KG

**1.2. Relevant identified uses of the substance or mixture and uses advised against**
Intended use:
Encapsulant

**1.3. Details of the supplier of the safety data sheet**
Henkel Ltd
Adhesives
Wood Lane End
HP2 4RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000

SDSinfo.Adhesive@henkel.com
For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

**1.4. Emergency telephone number**
24 Hours Emergency Tel: +44 (0)1442 278497

## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

**Classification (CLP):**

| | |
|---|---|
| Acute toxicity | Category 4 |
| H302 Harmful if swallowed. | |
| Route of Exposure: Oral | |
| Acute toxicity | Category 3 |
| H331 Toxic if inhaled. | |
| Route of Exposure: Inhalation | |
| Skin irritation | Category 2 |
| H315 Causes skin irritation. | |
| Serious eye damage | Category 1 |
| H318 Causes serious eye damage. | |
| Respiratory sensitizer | Category 1 |
| H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
| Skin sensitizer | Category 1 |
| H317 May cause an allergic skin reaction. | |
| Toxic to reproduction | Category 1B |
| H360D May damage the unborn child. | |

**2.2. Label elements**

**Label elements (CLP):**

| | |
|---|---|
| **Hazard pictogram:** |  |
| **Contains** | 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>Tin bis(2-ethylhexanoate)<br>1,2,3,6-tetrahydro-3,6-methanophthalic anhydride |
| **Signal word:** | Danger |
| **Hazard statement:** | H302 Harmful if swallowed.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H331 Toxic if inhaled.<br>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>H360D May damage the unborn child. |
| **Supplemental information** | Restricted to professional users. |
| **Precautionary statement: Prevention** | P201 Obtain special instructions before use.<br>P261 Avoid breathing vapors.<br>P280 Wear protective gloves/protective clothing. |
| **Precautionary statement: Response** | P302+P352 IF ON SKIN: Wash with plenty of soap and water.<br>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.<br>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.<br>P308+P313 IF exposed or concerned: Get medical advice/attention. |

### 2.3. Other hazards

None if used properly.

Following substances are present in a concentration ≥ the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration ≥ the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

| Hazardous components<br>CAS-No.<br>EC Number<br>REACH-Reg No. | Concentration | Classification | Specific Conc. Limits, M-factors and ATEs | Add. Information |
|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8<br>246-644-8<br>01-2119979584-19 | 50- 100 % | Acute Tox. 4, Oral, H302<br>Acute Tox. 3, Inhalation, H331<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Resp. Sens. 1, H334 | inhalation:ATE = 0,5 mg/l;dust/mist | |
| 1,2,3,6-tetrahydro-3,6-methanophthalic anhydride<br>826-62-0<br>212-557-9 | 10- 20 % | Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1, H317 | | |
| Tin bis(2-ethylhexanoate)<br>301-10-0<br>206-108-6<br>01-2119485798-13 | 0,1- < 1 % | Skin Sens. 1, H317<br>Eye Dam. 1, H318<br>Repr. 1B, H360D<br>Aquatic Chronic 3, H412 | | |

**If no ATE values are displayed, please refer to LD/LC50 values in Section 11.**
**For full text of the H - statements and other abbreviations see section 16 "Other information".**

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

Inhalation:
Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:
Rinse with running water and soap.
Obtain medical attention if irritation persists.

Eye contact:
Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:
Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

SKIN: Rash, Urticaria.

SKIN: Redness, inflammation.

RESPIRATORY: Irritation, coughing, shortness of breath, chest tightness.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

INGESTION: Nausea, vomiting, diarrhea, abdominal pain.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

**5.1. Extinguishing media**
**Suitable extinguishing media:**
water, carbon dioxide, foam, powder

**Extinguishing media which must not be used for safety reasons:**
High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**
In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released.

**5.3. Advice for firefighters**
Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

**Additional information:**
In case of fire, keep containers cool with water spray.

## SECTION 6: Accidental release measures

**6.1. Personal precautions, protective equipment and emergency procedures**
Avoid contact with skin and eyes.
Wear protective equipment.
Ensure adequate ventilation.

**6.2. Environmental precautions**
Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**
Dispose of contaminated material as waste according to Section 13.
For small spills wipe up with paper towel and place in container for disposal.
For large spills absorb onto inert absorbent material and place in sealed container for disposal.

**6.4. Reference to other sections**
See advice in section 8

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**
Avoid skin and eye contact.
See advice in section 8

Hygiene measures:
Wash hands before work breaks and after finishing work.
Do not eat, drink or smoke while working.
Good industrial hygiene practices should be observed.

**7.2. Conditions for safe storage, including any incompatibilities**
Ensure good ventilation/extraction.
Keep container tightly sealed.
Store at room temperature.
Refer to Technical Data Sheet

**7.3. Specific end use(s)**
Encapsulant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Occupational Exposure Limits**

Valid for
Great Britain

None

**Occupational Exposure Limits**

Valid for
Ireland

| Ingredient [Regulated substance] | ppm | $mg/m^3$ | Value type | Short term exposure limit category / Remarks | Regulatory list |
|---|---|---|---|---|---|
| Tin bis(2-ethylhexanoate)<br>301-10-0<br>[TIN ORGANIC COMPOUNDS, (AS SN)] | | 0,2 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| Tin bis(2-ethylhexanoate)<br>301-10-0<br>[TIN ORGANIC COMPOUNDS, (AS SN)] | | 0,1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |
| Tin bis(2-ethylhexanoate)<br>301-10-0<br>[Tin, Organic compounds] | | 0,2 | Short Term Exposure Limit (STEL): | 15 minutes<br>Indicative OELV | IR_OEL |
| Tin bis(2-ethylhexanoate)<br>301-10-0<br>[Tin, Organic compounds] | | 0,1 | Time Weighted Average (TWA): | Indicative OELV | IR_OEL |

**Predicted No-Effect Concentration (PNEC):**

| Name on list | Environmental Compartment | Exposure period | Value | | | | Remarks |
|---|---|---|---|---|---|---|---|
| | | | mg/l | ppm | mg/kg | others | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | aqua (freshwater) | | 0,4 mg/l | | | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | aqua (marine water) | | 0,04 mg/l | | | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | aqua (intermittent releases) | | 1 mg/l | | | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | sewage treatment plant (STP) | | 5,91 mg/l | | | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | sediment (freshwater) | | | | 4,64 mg/kg | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | sediment (marine water) | | | | 0,464 mg/kg | | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | Soil | | | | 0,694 mg/kg | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | aqua (freshwater) | | 0,054 mg/l | | | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | aqua (marine water) | | 0,0054 mg/l | | | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | sewage treatment plant (STP) | | 3,99 mg/l | | | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | sediment (freshwater) | | | | 0,417 mg/kg | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | sediment (marine water) | | | | 0,042 mg/kg | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | Soil | | | | 0,052 mg/kg | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | Freshwater - intermittent | | 0,069 mg/l | | | | |
| Tin bis(2-ethylhexanoate) 301-10-0 | Marine water - intermittent | | 0,0069 mg/l | | | | |

**Derived No-Effect Level (DNEL):**

| Name on list | Application Area | Route of Exposure | Health Effect | Exposure Time | Value | Remarks |
|---|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | Workers | dermal | Long term exposure - systemic effects | | 0,07 mg/kg | |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | Workers | inhalation | Long term exposure - systemic effects | | 0,23 mg/m3 | |
| Tin bis(2-ethylhexanoate) 301-10-0 | Workers | inhalation | Long term exposure - systemic effects | | 0,79 mg/m3 | |
| Tin bis(2-ethylhexanoate) 301-10-0 | Workers | dermal | Long term exposure - systemic effects | | 0,16 mg/kg | |
| Tin bis(2-ethylhexanoate) 301-10-0 | General population | inhalation | Long term exposure - systemic effects | | 0,14 mg/m3 | |
| Tin bis(2-ethylhexanoate) 301-10-0 | General population | dermal | Long term exposure - systemic effects | | 0,05714 mg/kg | |
| Tin bis(2-ethylhexanoate) 301-10-0 | General population | oral | Long term exposure - systemic effects | | 0,05556 mg/kg | |

**Biological Exposure Indices:**
None

**8.2. Exposure controls:**

Engineering controls:
Ensure good ventilation/extraction.

Respiratory protection:
Ensure adequate ventilation.
An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area
Filter type: A (EN 14387)

Hand protection:
Chemical-resistant protective gloves (EN 374).
Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):
nitrile rubber (NBR; >= 0.4 mm thickness)
This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:
Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing.
Protective eye equipment should conform to EN166.

Skin protection:
Wear suitable protective clothing.
Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

| | |
|---|---|
| Delivery form | paste |
| Colour | yellow |
| Odor | mild |
| Physical state | liquid |
| Melting point | Not applicable, Product is a liquid |
| Solidification temperature | < 10 °C (< 50 °F) |
| Initial boiling point | > 200 °C (> 392 °F) |
| Flammability | Not applicable<br>Non flammable product (flash point is greater than 93°C) |
| Explosive limits | Not applicable, The product is not flammable. |
| Flash point | > 100 °C (> 212 °F) |
| Auto-ignition temperature | Not applicable, The product is not flammable. |
| Decomposition temperature | > 100 °C (> 212 °F); |
| pH | Not applicable, Product is non-soluble (in water). |
| Viscosity (kinematic)<br>(40 °C (104 °F); ) | > 20 mm2/s |
| Solubility (qualitative) | Insoluble |

| | |
|---|---|
| (20 °C (68 °F); Solvent: Water) | |
| Partition coefficient: n-octanol/water | Not applicable<br>Mixture |
| Vapour pressure<br>(20 °C (68 °F)) | < 1 hPa |
| Density<br>(20 °C (68 °F)) | 1,23 g/cm3 None |
| Relative vapour density:<br>(20 °C) | > 1 |
| Particle characteristics | Not applicable<br>Product is a liquid |

**9.2. Other information**

Other information not applicable for this product

## SECTION 10: Stability and reactivity

**10.1. Reactivity**
Reacts with strong oxidants.
Reaction with strong acids.

**10.2. Chemical stability**
Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**
See section reactivity

**10.4. Conditions to avoid**
Stable under normal conditions of storage and use.

**10.5. Incompatible materials**
See section reactivity.

**10.6. Hazardous decomposition products**
carbon oxides.

## SECTION 11: Toxicological information

**General toxicological information:**
The mixture is classified based on the available hazard information for the ingredients as defined in the classification criteria for mixtures for each hazard class or differentiation in Annex I to Regulation (EC) No 1272/2008. Relevant available health/ecological information for the substances listed under Section 3 is provided in the following.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute oral toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8 | LD50 | 914 mg/kg | rat | not specified |
| Tin bis(2-ethylhexanoate)<br>301-10-0 | LD50 | 3.400 mg/kg | rat | not specified |

**Acute dermal toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Species | Method |
|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | LD50 | 4.920 mg/kg | rat | equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity) |
| Tin bis(2-ethylhexanoate) 301-10-0 | LD50 | > 2.000 mg/kg | rat | OECD Guideline 402 (Acute Dermal Toxicity) |

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Test atmosphere | Exposure time | Species | Method |
|---|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | Acute toxicity estimate (ATE) | 0,5 mg/l | dust/mist | | | Expert judgement |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | LC50 | < 0,75 mg/l | dust/mist | 4 h | rat | OECD Guideline 403 (Acute Inhalation Toxicity) |

**Skin corrosion/irritation:**

Causes skin irritation.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | irritating | | rabbit | not specified |
| Tin bis(2-ethylhexanoate) 301-10-0 | slightly irritating | 24 h | rabbit | Draize Test |

**Serious eye damage/irritation:**

Causes serious eye damage.

| Hazardous substances CAS-No. | Result | Exposure time | Species | Method |
|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | Category 1 (irreversible effects on the eye) | | rabbit | OECD Guideline 405 (Acute Eye Irritation / Corrosion) |
| Tin bis(2-ethylhexanoate) 301-10-0 | highly irritating | | rabbit | equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion) |

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Species | Method |
|---|---|---|---|---|
| Tin bis(2-ethylhexanoate) 301-10-0 | sensitising | Guinea pig maximisation test | guinea pig | OECD Guideline 406 (Skin Sensitisation) |

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

No data available.

**Aspiration hazard:**

No data available.

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

**General ecological information:**
Do not empty into drains / surface water / ground water.

**12.1. Toxicity**

**Toxicity (Fish):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8 | LC50 | 313 mg/l | 48 h | Leuciscus idus | DIN 38412-15 |
| Tin bis(2-ethylhexanoate)<br>301-10-0 | LC50 | 111 mg/l | 96 h | not specified | OECD Guideline 203 (Fish, Acute Toxicity Test) |

**Toxicity (aquatic invertebrates):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8 | EC50 | > 100 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |
| Tin bis(2-ethylhexanoate)<br>301-10-0 | EC50 | 60 mg/l | 48 h | Daphnia magna | OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test) |

**Chronic toxicity (aquatic invertebrates):**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| Tin bis(2-ethylhexanoate)<br>301-10-0 | NOEC | 18 mg/l | 21 d | Daphnia magna | OECD 211 (Daphnia magna, Reproduction Test) |

**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | EC50 | > 100 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | NOEC | 66,7 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tin bis(2-ethylhexanoate) 301-10-0 | EC50 | 6,9 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |
| Tin bis(2-ethylhexanoate) 301-10-0 | NOEC | 0,54 mg/l | 72 h | Pseudokirchneriella subcapitata | OECD Guideline 201 (Alga, Growth Inhibition Test) |

**Toxicity (microorganisms):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Value type | Value | Exposure time | Species | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | EC 50 | > 1.000 mg/l | 3 h | | ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge) |

**12.2. Persistence and degradability**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Result | Test type | Degradability | Exposure time | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | not readily biodegradable. | aerobic | 0 % | 28 day | OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I)) |
| Tin bis(2-ethylhexanoate) 301-10-0 | inherently biodegradable | aerobic | > 70 % | 28 d | OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) |
| Tin bis(2-ethylhexanoate) 301-10-0 | readily biodegradable | aerobic | 83 % | 28 d | OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test) |

**12.3. Bioaccumulative potential**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances CAS-No. | Bioconcentration factor (BCF) | Exposure time | Temperature | Species | Method |
|---|---|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride 25134-21-8 | > 3,9 - < 5,5 | 42 d | | Cyprinus carpio | OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish) |

**12.4. Mobility in soil**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | LogPow | Temperature | Method |
|---|---|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8 | 1,7 | 40 °C | EPA OPPTS 830.7570 (Partition Coefficient, n-octanol / H2O, Estimation by Liquid Chromatography) |
| Tin bis(2-ethylhexanoate)<br>301-10-0 | 2,52 | | EU Method A.8 (Partition Coefficient) |

**12.5. Results of PBT and vPvB assessment**

The table below presents the data of the classified substances present in the mixture.

| Hazardous substances<br>CAS-No. | PBT / vPvB |
|---|---|
| 1,2,3,6-Tetrahydromethyl-3,6-methanophthalic anhydride<br>25134-21-8 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Tin bis(2-ethylhexanoate)<br>301-10-0 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Endocrine disrupting properties**

not applicable

**12.7. Other adverse effects**

No data available.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

Product disposal:
Do not empty into drains / surface water / ground water.
Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:
After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 09* waste adhesives and sealants containing organic solvents and other dangerous substances
The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

## SECTION 14: Transport information

**14.1. UN number or ID number**

| | |
|---|---|
| ADR | 2810 |
| RID | 2810 |
| ADN | 2810 |
| IMDG | 2810 |
| IATA | 2810 |

**14.2. UN proper shipping name**

| | |
|---|---|
| ADR | TOXIC LIQUID, ORGANIC, N.O.S. (Methyl norborneno dicarboxylic anhydride) |
| RID | TOXIC LIQUID, ORGANIC, N.O.S. (Methyl norborneno dicarboxylic anhydride) |
| ADN | TOXIC LIQUID, ORGANIC, N.O.S. (Methyl norborneno dicarboxylic anhydride) |
| IMDG | TOXIC LIQUID, ORGANIC, N.O.S. (Methyl norborneno dicarboxylic anhydride) |
| IATA | Toxic liquid, organic, n.o.s. (Methyl norborneno dicarboxylic anhydride) |

**14.3. Transport hazard class(es)**

| | |
|---|---|
| ADR | 6.1 |
| RID | 6.1 |
| ADN | 6.1 |
| IMDG | 6.1 |
| IATA | 6.1 |

**14.4. Packing group**

| | |
|---|---|
| ADR | III |
| RID | III |
| ADN | III |
| IMDG | III |
| IATA | III |

**14.5. Environmental hazards**

| | |
|---|---|
| ADR | not applicable |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

| | |
|---|---|
| ADR | not applicable<br>Tunnelcode: (E) |
| RID | not applicable |
| ADN | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.7. Maritime transport in bulk according to IMO instruments**

not applicable

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

| | |
|---|---|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012): | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021): | Not applicable |
| VOC content (2010/75/EC) | < 3 % |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H360D May damage the unborn child.
H412 Harmful to aquatic life with long lasting effects.

| | |
|---|---|
| ED: | Substance identified as having endocrine disrupting properties |
| EU OEL: | Substance with a Union workplace exposure limit |
| EU EXPLD 1: | Substance listed in Annex I, Reg (EC) No. 2019/1148 |
| EU EXPLD 2 | Substance listed in Annex II, Reg (EC) No. 2019/1148 |
| SVHC: | Substance of very high concern (REACH Candidate List) |
| PBT: | Substance fulfilling persistent, bioaccumulative and toxic criteria |
| PBT/vPvB: | Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria |
| vPvB: | Substance fulfilling very persistent and very bioaccumulative criteria |

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