

**1 Identification**

- **Product identifier**
- **Trade name:** Patcat 3001
- **CAS Number:**  
77-58-7
- **EC number:**  
201-039-8
- **Index number:**  
050-030-00-3
- **Application of the substance / the mixture** Catalyst
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Patcham (FZC)  
P.O.Box 7753,  
SAIF Zone,  
SHARJAH  
UNITED ARAB EMIRATES  
research@patchamltd.com
- **Information department:** Research and Development Department
- **Emergency telephone number:** Chemtrec 24hrs call 1-800-424-9300

Distributed by:

**Univar Solutions USA**

3075 Highland Pkwy Ste 200  
Downers Grove, IL 60515  
Telephone: 1-855-429-2661  
Emergency Phone Number:  
CHEMTREC 1-800-424-9300

**2 Hazard(s) identification**

- **Classification of the substance or mixture**



GHS06 Skull and crossbones

Acute Toxicity - Oral 3

H301 Toxic if swallowed.



GHS08 Health hazard

Germ Cell Mutagenicity 2

H341 Suspected of causing genetic defects.

Toxic to Reproduction 1B

H360 May damage fertility or the unborn child.

Specific Target Organ Toxicity - Repeated Exposure 1 H372 Causes damage to the immune system through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS06



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
dibutyltin dilaurate
- **Hazard statements**  
H301 Toxic if swallowed.  
H341 Suspected of causing genetic defects.  
H360 May damage fertility or the unborn child.

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*H372 Causes damage to the immune system through prolonged or repeated exposure.***· Precautionary statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 If swallowed: Immediately call a poison center/doctor.
- P321 Specific treatment (see on this label).
- P330 Rinse mouth.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Classification system:****· NFPA ratings (scale 0 - 4)****· HMIS-ratings (scale 0 - 4)****· Other hazards****· Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterization: Substances**
- **CAS No. Description**  
77-58-7 dibutyltin dilaurate 90 - 100%
- **Identification number(s)**
- **EC number:** 201-039-8
- **Index number:** 050-030-00-3

**4 First-aid measures****· Description of first aid measures****· General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**1.1 mg/m<sup>3</sup>· **PAC-2:**8 mg/m<sup>3</sup>· **PAC-3:**48 mg/m<sup>3</sup>**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

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**8 Exposure controls/personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

**77-58-7 dibutyltin dilaurate**

PEL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn

REL Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn, Skin

TLV Short-term value: 0.2 mg/m<sup>3</sup>  
Long-term value: 0.1 mg/m<sup>3</sup>  
as Sn; Skin

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

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**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**

|                          |                 |
|--------------------------|-----------------|
| · <b>Appearance:</b>     | Clear           |
| · <b>Form:</b>           | Liquid          |
| · <b>Color:</b>          | Gardner 3(max.) |
| · <b>Odor:</b>           | Characteristic  |
| · <b>Odor threshold:</b> | Not determined. |

|                    |                               |
|--------------------|-------------------------------|
| · <b>pH-value:</b> | Mixture is non-polar/aprotic. |
|--------------------|-------------------------------|

· **Change in condition**

|                                       |                         |
|---------------------------------------|-------------------------|
| · <b>Melting point/Melting range:</b> | 16-18 °C (60.8-64.4 °F) |
| · <b>Boiling point/Boiling range:</b> | Undetermined.           |

|                       |                 |
|-----------------------|-----------------|
| · <b>Flash point:</b> | 100 °C (212 °F) |
|-----------------------|-----------------|

|                                         |                 |
|-----------------------------------------|-----------------|
| · <b>Flammability (solid, gaseous):</b> | Not applicable. |
|-----------------------------------------|-----------------|

|                                     |                 |
|-------------------------------------|-----------------|
| · <b>Decomposition temperature:</b> | Not determined. |
|-------------------------------------|-----------------|

|                         |                 |
|-------------------------|-----------------|
| · <b>Auto igniting:</b> | Not determined. |
|-------------------------|-----------------|

|                               |                                               |
|-------------------------------|-----------------------------------------------|
| · <b>Danger of explosion:</b> | Product does not present an explosion hazard. |
|-------------------------------|-----------------------------------------------|

· **Explosion limits:**

|                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

|                          |                 |
|--------------------------|-----------------|
| · <b>Vapor pressure:</b> | Not determined. |
|--------------------------|-----------------|

|                           |                                  |
|---------------------------|----------------------------------|
| · <b>Density:</b>         | Not determined.                  |
| · <b>Relative density</b> | Not determined.                  |
| · <b>Specific Gravity</b> | ~ 1.040 @ 25 °C (~ 33.9 @ 77 °F) |
| · <b>Evaporation rate</b> | Not determined.                  |

· **Solubility in / Miscibility with**

|                 |                                   |
|-----------------|-----------------------------------|
| · <b>Water:</b> | Not miscible or difficult to mix. |
|-----------------|-----------------------------------|

|                                                   |                 |
|---------------------------------------------------|-----------------|
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined. |
|---------------------------------------------------|-----------------|

· **Viscosity:**

|                                    |                 |
|------------------------------------|-----------------|
| · <b>Dynamic at 25 °C (77 °F):</b> | <50 cPs         |
| · <b>Kinematic:</b>                | Not determined. |

|                            |                                            |
|----------------------------|--------------------------------------------|
| · <b>Other information</b> | No further relevant information available. |
|----------------------------|--------------------------------------------|

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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**11 Toxicological information**· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:**

77-58-7 dibutyltin dilaurate

Oral LD50 175 mg/kg (rat)

· **Primary irritant effect:**· **on the skin:** Irritant to skin and mucous membranes.· **on the eye:** Irritating effect.· **Additional toxicological information:**· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

Substance is not listed.

· **NTP (National Toxicology Program)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:** No further relevant information available.· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Ecotoxicological effects:**· **Remark:** Very toxic for fish· **Additional ecological information:**· **General notes:**

Water hazard class 3 (Assessment by list): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

|                                                                                     |                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| · <b>UN-Number</b>                                                                  | UN2788                                                                      |
| · <b>DOT, ADR, IMDG, IATA</b>                                                       |                                                                             |
| · <b>UN proper shipping name</b>                                                    | Organotin compounds, liquid, n.o.s. (dibutyltin dilaurate)                  |
| · <b>DOT</b>                                                                        | 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S. (dibutyltin dilaurate)              |
| · <b>ADR</b>                                                                        |                                                                             |
| · <b>IMDG</b>                                                                       | ORGANOTIN COMPOUND, LIQUID, N.O.S. (dibutyltin dilaurate), MARINE POLLUTANT |
| · <b>IATA</b>                                                                       | ORGANOTIN COMPOUND, LIQUID, N.O.S. (dibutyltin dilaurate)                   |
| · <b>Transport hazard class(es)</b>                                                 |                                                                             |
| · <b>DOT</b>                                                                        |                                                                             |
|    |                                                                             |
| · <b>Class</b>                                                                      | 6.1 Toxic substances                                                        |
| · <b>Label</b>                                                                      | 6.1                                                                         |
| · <b>ADR, IMDG, IATA</b>                                                            |                                                                             |
|  |                                                                             |
| · <b>Class</b>                                                                      | 6.1 Toxic substances                                                        |
| · <b>Label</b>                                                                      | 6.1                                                                         |
| · <b>Packing group</b>                                                              |                                                                             |
| · <b>DOT, ADR, IMDG, IATA</b>                                                       | III                                                                         |
| · <b>Environmental hazards:</b>                                                     |                                                                             |
| · <b>Marine pollutant:</b>                                                          | Yes                                                                         |
| · <b>Special precautions for user</b>                                               | Warning: Toxic substances                                                   |
| · <b>Hazard identification number (Kemler code):</b>                                | 60                                                                          |
| · <b>EMS Number:</b>                                                                | F-A,S-A                                                                     |
| · <b>Stowage Category</b>                                                           | A                                                                           |
| · <b>Stowage Code</b>                                                               | SW2 Clear of living quarters.                                               |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>    | Not applicable.                                                             |
| · <b>Transport/Additional information:</b>                                          |                                                                             |
| · <b>DOT</b>                                                                        |                                                                             |
| · <b>Quantity limitations</b>                                                       | On passenger aircraft/rail: 60 L<br>On cargo aircraft only: 220 L           |

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|                                   |                                                                                                                  |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| · <b>Remarks:</b>                 | Special marking with the symbol (fish and tree).                                                                 |
| · <b>ADR</b>                      |                                                                                                                  |
| · <b>Excepted quantities (EQ)</b> | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>IMDG</b>                     |                                                                                                                  |
| · <b>Limited quantities (LQ)</b>  | 5L                                                                                                               |
| · <b>Excepted quantities (EQ)</b> | Code: E1<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 1000 ml |
| · <b>UN "Model Regulation":</b>   | UN 2788 ORGANOTIN COMPOUND, LIQUID, N.O.S.<br>(DIBUTYLTIN DILAURATE), 6.1, III                                   |

**15 Regulatory information**

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed and ACTIVE.

· **Hazardous Air Pollutants**

Substance is not listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value)**

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

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**Hazard pictograms**

GHS06 GHS08

**Signal word** *Danger***Hazard-determining components of labeling:***dibutyltin dilaurate***Hazard statements***H301 Toxic if swallowed.**H341 Suspected of causing genetic defects.**H360 May damage fertility or the unborn child.**H372 Causes damage to the immune system through prolonged or repeated exposure.***Precautionary statements***P201 Obtain special instructions before use.**P202 Do not handle until all safety precautions have been read and understood.**P260 Do not breathe dust/fume/gas/mist/vapors/spray.**P264 Wash thoroughly after handling.**P270 Do not eat, drink or smoke when using this product.**P280 Wear protective gloves/protective clothing/eye protection/face protection.**P301+P310 If swallowed: Immediately call a poison center/doctor.**P321 Specific treatment (see on this label).**P330 Rinse mouth.**P308+P313 IF exposed or concerned: Get medical advice/attention.**P314 Get medical advice/attention if you feel unwell.**P405 Store locked up.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.***16 Other information**

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**Department issuing SDS:** *Research and Development Department***Contact:** *research@patchamltd.com***Date of preparation / last revision** *04/05/2022 / 2***Abbreviations and acronyms:**

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*ICAO: International Civil Aviation Organisation*

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*NIOSH: National Institute for Occupational Safety*

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PATCHAM

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# Safety Data Sheet

acc. to OSHA HCS

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OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 3: Acute toxicity – Category 3

Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2

Toxic to Reproduction 1B: Reproductive toxicity – Category 1B

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

US