

# TRIISOPROPYL BORATE

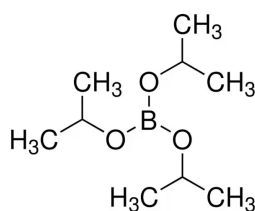
## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 4/24/2026 Version: 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
Trade name : TRIISOPROPYL BORATE  
EC-No. : 226-529-9  
CAS-No. : 5419-55-6  
Product code : 6365F  
Type of product : Organic compound  
Formula : C<sub>9</sub>H<sub>21</sub>BO<sub>3</sub>  
Chemical structure :



Synonyms : Triisopropoxyborane, Boron isopropoxide

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

##### Relevant identified uses

Use of the substance/mixture : Laboratory chemicals  
Manufacture of substances

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

LOBA CHEMIE PVT.LTD.  
107 Wode House Road, Jehangir Villa, Colaba  
400005 Mumbai  
INDIA  
T +91 22 6663 6663, F +91 22 6663 6699  
[info@lobachemie.com](mailto:info@lobachemie.com), [www.lobachemie.com](http://www.lobachemie.com)

#### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2 H225  
Full text of H- and EUH-statements: see section 16

##### Adverse physicochemical, human health and environmental effects

Highly flammable liquid and vapour.

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger

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|                                |                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard statements (CLP)        | : H225 - Highly flammable liquid and vapour.                                                                                                                                                                                                                                                                                                                                    |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.<br>P233 - Keep container tightly closed.<br>P240 - Ground and bond container and receiving equipment.<br>P241 - Use explosion-proof electrical/ventilating/lighting equipment.<br>P242 - Use non-sparking tools.<br>P243 - Take action to prevent static discharges. |

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : Mono-constituent

| Name                | Product identifier                      | %   |
|---------------------|-----------------------------------------|-----|
| TRIISOPROPYL BORATE | CAS-No.: 5419-55-6<br>EC-No.: 226-529-9 | 100 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : If you feel unwell, seek medical advice.                                                                                         |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.                                                                   |
| First-aid measures after skin contact | : Rinse skin with water/shower. Take off immediately all contaminated clothing.                                                    |
| First-aid measures after eye contact  | : Rinse eyes with water as a precaution.                                                                                           |
| First-aid measures after ingestion    | : Call a poison center or a doctor if you feel unwell.                                                                             |
| Self protection of the first-aider    | : First-aiders should pay attention to their own protection and use the recommended personal protective equipment (see section 8). |

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

|                                     |                                 |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation   | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact  | : None under normal conditions. |
| Symptoms/effects after ingestion    | : None under normal conditions. |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Suitable extinguishing media   | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream.               |

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

|                                                  |                                       |
|--------------------------------------------------|---------------------------------------|
| Fire hazard                                      | : Highly flammable liquid and vapour. |
| Explosion hazard                                 | : No direct explosion hazard.         |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released.        |

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### 5.3. Advice for firefighters

- |                                |                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Firefighting instructions      | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6: Accidental release measures

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

- |                  |                                                                                                                                            |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| General measures | : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.<br>Absorb spillage to prevent material damage. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------|

#### For non-emergency personnel

- |                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Protective equipment | : Wear recommended personal protective equipment.                     |
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. |

#### For emergency responders

- |                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Stop leak if safe to do so.                                                                                               |

### 6.2. Environmental precautions

Avoid release to the environment.

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

- |                         |                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For containment         | : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.                                                                         |
| Other information       | : Dispose of materials or solid residues at an authorized site.                                                                                                                       |

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- |                                   |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use.                                                                                                                                                                                                                                                                                                            |
| Precautions for safe handling     | : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. |
| Hygiene measures                  | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                                                                                                                                                                                                                                                                                                   |

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

- |                     |                                                                               |
|---------------------|-------------------------------------------------------------------------------|
| Technical measures  | : Ground/bond container and receiving equipment.                              |
| Storage conditions  | : Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| Packaging materials | : Always store product in container of same material as original container.   |

#### Switzerland

- |                    |                            |
|--------------------|----------------------------|
| Storage class (LK) | : LK 3 - Flammable liquids |
|--------------------|----------------------------|

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

##### Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station.

##### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

##### Personal protective equipment symbol(s):



##### Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses

##### Skin protection

##### Skin and body protection:

Wear a mask

##### Hand protection:

Protective gloves

##### Respiratory protection

##### Respiratory protection:

Wear appropriate mask

##### Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

|                           |                                       |
|---------------------------|---------------------------------------|
| Physical state            | : Liquid                              |
| Colour                    | : Colourless.                         |
| Appearance                | : Clear liquid.                       |
| Molecular mass            | : 188.07 g/mol                        |
| Odour                     | : Acrid.                              |
| Odour threshold           | : Not available                       |
| Melting point             | : Not applicable                      |
| Freezing point            | : -59 °C                              |
| Boiling point             | : 139 – 141 °C                        |
| Flammability              | : Highly flammable liquid and vapour. |
| Lower explosion limit     | : Not available                       |
| Upper explosion limit     | : Not available                       |
| Flash point               | : 17 °C - closed cup                  |
| Auto-ignition temperature | : Not available                       |
| Decomposition temperature | : Not available                       |
| pH                        | : Not available                       |
| Viscosity, kinematic      | : Not available                       |

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|                                                 |                                                                                                           |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Solubility                                      | : Water: Decomposes in contact with water<br>Ethanol: Miscible with Ethanol<br>Ether: Miscible with Ether |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                                                                                           |
| Vapour pressure                                 | : 100 hPa at 75 °C                                                                                        |
| Vapour pressure at 50°C                         | : Not available                                                                                           |
| Density                                         | : 0.815 g/ml at 25 °C                                                                                     |
| Relative density                                | : Not available                                                                                           |
| Relative vapour density at 20°C                 | : 6.5 (Air = 1.0)                                                                                         |
| Particle characteristics                        | : Not applicable                                                                                          |

### 9.2. Other information

#### Other safety characteristics

Refractive index : 1.374 – 1.378 (20 °C; 589 nm)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

|                                   |                  |
|-----------------------------------|------------------|
| Acute toxicity (oral)             | : Not classified |
| Acute toxicity (dermal)           | : Not classified |
| Acute toxicity (inhalation)       | : Not classified |
| Skin corrosion/irritation         | : Not classified |
| Serious eye damage/irritation     | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity            | : Not classified |
| Carcinogenicity                   | : Not classified |
| Reproductive toxicity             | : Not classified |
| STOT-single exposure              | : Not classified |
| STOT-repeated exposure            | : Not classified |
| Aspiration hazard                 | : Not classified |

### 11.2. Information on other hazards

No additional information available

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### SECTION 12: Ecological information

#### 12.1. Toxicity

|                                                           |                                                                                                                         |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Ecology - general                                         | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute)  | : Not classified                                                                                                        |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified                                                                                                        |

#### 12.2. Persistence and degradability

##### TRIISOPROPYL BORATE (5419-55-6)

|                               |                    |
|-------------------------------|--------------------|
| Persistence and degradability | Rapidly degradable |
|-------------------------------|--------------------|

#### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

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

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

#### 12.7. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                                                                                         |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                                                                                           |
| Sewage disposal recommendations            | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Product/Packaging disposal recommendations | : Disposal must be done according to official regulations.                                                                                                                                                                              |
| Additional information                     | : Flammable vapours may accumulate in the container. Do not re-use empty containers.                                                                                                                                                    |
| Ecological waste information               | : The waste of the product should be considered as hazardous as the product itself, with the likelihood of impacting the environment in the same way. Consider the handling and disposal of the waste as defined by the product itself. |

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

#### 14.1. UN number or ID number

|               |           |
|---------------|-----------|
| UN-No. (ADR)  | : UN 2616 |
| UN-No. (IMDG) | : UN 2616 |
| UN-No. (IATA) | : UN 2616 |
| UN-No. (ADN)  | : UN 2616 |
| UN-No. (RID)  | : UN 2616 |

#### 14.2. UN proper shipping name

|                            |                       |
|----------------------------|-----------------------|
| Proper Shipping Name (ADR) | : TRIISOPROPYL BORATE |
|----------------------------|-----------------------|

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|                                            |                                                  |
|--------------------------------------------|--------------------------------------------------|
| Proper Shipping Name (IMDG)                | : TRIISOPROPYL BORATE                            |
| Proper Shipping Name (IATA)                | : Triisopropyl borate                            |
| Proper Shipping Name (ADN)                 | : TRIISOPROPYL BORATE                            |
| Proper Shipping Name (RID)                 | : TRIISOPROPYL BORATE                            |
| Transport document description (ADR) (ADR) | : UN 2616 TRIISOPROPYL BORATE, 3, II, (D/E)      |
| Transport document description (IMDG)      | : UN 2616 TRIISOPROPYL BORATE, 3, II (17°C c.c.) |
| Transport document description (IATA)      | : UN 2616 Triisopropyl borate, 3, II             |
| Transport document description (ADN)       | : UN 2616 TRIISOPROPYL BORATE, 3, II             |
| Transport document description (RID)       | : UN 2616 TRIISOPROPYL BORATE, 3, II             |

### 14.3. Transport hazard class(es)

#### ADR

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 3 |
| Danger labels (ADR)              | : 3 |
|                                  | :   |



#### IMDG

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IMDG) | : 3 |
| Danger labels (IMDG)              | : 3 |
|                                   | :   |



#### IATA

|                                   |     |
|-----------------------------------|-----|
| Transport hazard class(es) (IATA) | : 3 |
| Danger labels (IATA)              | : 3 |
|                                   | :   |



#### ADN

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADN) | : 3 |
| Danger labels (ADN)              | : 3 |
|                                  | :   |



#### RID

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (RID) | : 3 |
| Danger labels (RID)              | : 3 |
|                                  | :   |



### 14.4. Packing group

|                      |      |
|----------------------|------|
| Packing group (ADR)  | : II |
| Packing group (IMDG) | : II |
| Packing group (IATA) | : II |
| Packing group (ADN)  | : II |
| Packing group (RID)  | : II |

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### 14.5. Environmental hazards

|                               |                                          |
|-------------------------------|------------------------------------------|
| Dangerous for the environment | : No                                     |
| Marine pollutant              | : No                                     |
| EmS-No. (Fire)                | : F-E                                    |
| EmS-No. (Spillage)            | : S-D                                    |
| Other information             | : No supplementary information available |

### 14.6. Special precautions for user

#### Overland transport

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Classification code (ADR)                                 | : F1                |
| Limited quantities (ADR)                                  | : 1I                |
| Excepted quantities (ADR)                                 | : E2                |
| Packing instructions (ADR)                                | : P001, IBC02, R001 |
| Mixed packing provisions (ADR)                            | : MP19              |
| Portable tank and bulk container instructions (ADR)       | : T4                |
| Portable tank and bulk container special provisions (ADR) | : TP1               |
| Tank code (ADR)                                           | : LGBF              |
| Vehicle for tank carriage                                 | : FL                |
| Transport category (ADR)                                  | : 2                 |
| Special provisions for carriage - Operation (ADR)         | : S2, S20           |
| Hazard identification number (Kemler No.)                 | : 33                |
| Orange plates                                             | :                   |



|                               |        |
|-------------------------------|--------|
| Tunnel restriction code (ADR) | : D/E  |
| EAC code                      | : •3YE |

#### Transport by sea

|                                    |                                                                                                   |
|------------------------------------|---------------------------------------------------------------------------------------------------|
| Limited quantities (IMDG)          | : 1 L                                                                                             |
| Excepted quantities (IMDG)         | : E2                                                                                              |
| Packing instructions (IMDG)        | : P001                                                                                            |
| IBC packing instructions (IMDG)    | : IBC02                                                                                           |
| Tank instructions (IMDG)           | : T4                                                                                              |
| Tank special provisions (IMDG)     | : TP1                                                                                             |
| Stowage category (IMDG)            | : B                                                                                               |
| Flash point (IMDG)                 | : 17°C to 60°C c.c.                                                                               |
| Properties and observations (IMDG) | : Colourless liquid. Flashpoint: 17°C to 60°C c.c. Reacts with water, evolving flammable vapours. |

#### Air transport

|                                              |        |
|----------------------------------------------|--------|
| PCA Excepted quantities (IATA)               | : E2   |
| PCA Limited quantities (IATA)                | : Y341 |
| PCA limited quantity max net quantity (IATA) | : 1L   |
| PCA packing instructions (IATA)              | : 353  |
| PCA max net quantity (IATA)                  | : 5L   |
| CAO packing instructions (IATA)              | : 364  |
| CAO max net quantity (IATA)                  | : 60L  |
| Special provisions (IATA)                    | : A3   |
| ERG code (IATA)                              | : 3L   |

#### Inland waterway transport

|                                   |             |
|-----------------------------------|-------------|
| Classification code (ADN)         | : F1        |
| Limited quantities (ADN)          | : 1 L       |
| Excepted quantities (ADN)         | : E2        |
| Equipment required (ADN)          | : PP, EX, A |
| Ventilation (ADN)                 | : VE01      |
| Number of blue cones/lights (ADN) | : 1         |

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### Rail transport

|                                                           |                     |
|-----------------------------------------------------------|---------------------|
| Classification code (RID)                                 | : F1                |
| Limited quantities (RID)                                  | : 1L                |
| Excepted quantities (RID)                                 | : E2                |
| Packing instructions (RID)                                | : P001, IBC02, R001 |
| Mixed packing provisions (RID)                            | : MP19              |
| Portable tank and bulk container instructions (RID)       | : T4                |
| Portable tank and bulk container special provisions (RID) | : TP1               |
| Tank codes for RID tanks (RID)                            | : LGBF              |
| Transport category (RID)                                  | : 2                 |
| Colis express (express parcels) (RID)                     | : CE7               |
| Hazard identification number (RID)                        | : 33                |

### 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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                     |
|----------------------------------------|---------------------|
| Reference code                         | Applicable on       |
| 3(a)                                   | TRIISOPROPYL BORATE |
| 40.                                    | TRIISOPROPYL BORATE |

##### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

##### PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

##### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

##### Council Regulation (EC) for the control of dual-use items

Not listed on the COUNCIL REGULATION (EC) of dual-use items.

##### Explosives Precursors Regulation (EU 2019/1148)

Not listed on the Explosives Precursors list (EU)

##### Drug Precursors Regulation (EC 273/2004)

Not listed on the Drug Precursors list (EU)

#### National regulations

##### Austria

Ordinance on Flammable Liquids (VbF) : Hazard category 2: Highly flammable (flash point < 23 °C and boiling point > 35 °C. Including motor gasoline).

##### Denmark

Class for fire hazard : Class I-1

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Store unit : 1 liter  
Classification remarks : F <Flam. Liq. 2>; Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV).

Major Accidents Ordinance (12. BImSchV) : Is listed in the Major Accidents Ordinance (12. BImSchV)

| Major Accidents Ordinance (12. BImSchV) |      |                                                                                                                                                                                                                                                                                                                                             |              |               |
|-----------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|
| Number                                  | Code | Title                                                                                                                                                                                                                                                                                                                                       | Lower-tier   | Upper-tier    |
| 1.2.5.1                                 | P5a  | Flammable liquids. Flammable liquids of category 1; flammable liquids of category 2 or 3 maintained at a temperature above their boiling point; other liquids with a flash point of $\leq 60$ °C maintained at a temperature above their boiling point                                                                                      | 10,000 kg    | 50,000 kg     |
| 1.2.5.2                                 | P5b  | Flammable liquids. Flammable liquids of category 2 or 3, where special processing conditions such as high pressure or high temperature can lead to the risk of accidents; other liquids with a flash point of $\leq 60$ °C, where special processing conditions such as high pressure or high temperature can lead to the risk of accidents | 50,000 kg    | 200,000 kg    |
| 1.2.5.3                                 | P5c  | Flammable liquids of categories 2 or 3, not covered under P5a and P5b                                                                                                                                                                                                                                                                       | 5,000,000 kg | 50,000,000 kg |

### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed  
SZW-lijst van mutagene stoffen : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

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### Poland

#### Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).  
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488).  
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).  
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891).  
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended).

### Spain

#### Royal Decree 665/1997

: Is not subject to the Royal Decree 665/1997

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

### Abbreviations and acronyms:

|         |                                                                                                 |
|---------|-------------------------------------------------------------------------------------------------|
| ACGIH   | American Conference of Governmental Industrial Hygienists                                       |
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE     | Acute Toxicity Estimate                                                                         |
| BCF     | Bioconcentration factor                                                                         |
| BLV     | Biological limit value                                                                          |
| BOD     | Biochemical oxygen demand (BOD)                                                                 |
| CAS-No. | Chemical Abstracts Service number                                                               |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                     |
| COD     | Chemical oxygen demand (COD)                                                                    |
| CSA     | Chemical safety assessment                                                                      |
| DMEL    | Derived Minimal Effect level                                                                    |
| DNEL    | Derived-No Effect Level                                                                         |

# TRIISOPROPYL BORATE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

| Abbreviations and acronyms: |                                                                              |
|-----------------------------|------------------------------------------------------------------------------|
| EC-No.                      | European Community number                                                    |
| EC50                        | Median effective concentration                                               |
| ED                          | Endocrine disruptor                                                          |
| EN                          | European Standard                                                            |
| EWC                         | European waste catalogue                                                     |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration                                                  |
| LD50                        | Median lethal dose                                                           |
| LOAEL                       | Lowest Observed Adverse Effect Level                                         |
| Log Kow                     | Partition coefficient n-octanol/water (Log Kow)                              |
| Log Pow                     | Partition coefficient n-octanol/water (Log Pow)                              |
| MAK                         | maximum workplace concentration                                              |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level                                             |
| NOEC                        | No-Observed Effect Concentration                                             |
| N.O.S.                      | Not Otherwise Specified                                                      |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit                                                  |
| OSHA                        | Occupational Safety & Health Administration                                  |
| PBT                         | Persistent Bioaccumulative Toxic                                             |
| PNEC                        | Predicted No-Effect Concentration                                            |
| PPE                         | Personal protection equipment                                                |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet                                                            |
| STP                         | Sewage treatment plant                                                       |
| TF                          | Technical function                                                           |
| ThOD                        | Theoretical oxygen demand (ThOD)                                             |
| TLM                         | Median Tolerance Limit                                                       |
| TWA                         | Time Weighted Average                                                        |
| VOC                         | Volatile Organic Compounds                                                   |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| UFI                         | Unique Formula Identifier                                                    |

| Full text of H- and EUH-statements: |                                     |
|-------------------------------------|-------------------------------------|
| Flam. Liq. 2                        | Flammable liquids, Category 2       |
| H225                                | Highly flammable liquid and vapour. |

Safety Data Sheet (SDS), EU

# TRIISOPROPYL BORATE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.