

INTATRADE  
**MATERIAL SAFETY DATA SHEET**  
Regulation (EC) No 1907/2006

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name: Tris(pentafluorophenyl)borane  
Product number: EO00596  
Company: INTATRADE Chemicals GmbH  
Bahnhofstr. 1  
06774 Muldestausee OT Friedersdorf, Germany  
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## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation  
(EC) No 1272/2008

Skin irritation (Category 2)  
Eye irritation (Category 2)  
Specific target organ toxicity - single exposure (Category 3)

According to European Directive  
67/548/EEC as amended

Irritating to eyes, respiratory system and skin.

Label elements  
Pictogram



Signal word  
Hazard statement(s)

Warning  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.

Precautionary statement(s)

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazard symbol(s)

Xi Irritant

R-phrase(s)

R36/37/38 Irritating to eyes, respiratory system and skin.

S-phrase(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Other hazards

S36 Wear suitable protective clothing.  
none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name Tris(pentafluorophenyl)borane  
CAS no. 1109-15-5  
EINECS no. -  
Formula C<sub>18</sub>BF<sub>15</sub>  
Molecular Weight 511.98  
Classification Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335; Xi, R36/37/38  
For the full text of the H-Statements mentioned in this Section, see Section 16.

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#### 4. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
After inhalation	Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice.
After skin contact	Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice.
After eye contact	Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing	Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek immediate medical advice.

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#### 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment	Wear self-contained breathing apparatus. Wear full protective suit.

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#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.
Environmental precautions	Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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#### 7. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.
Conditions for safe storage	Keep container tightly closed in a dry and well-ventilated place. Store in cool place.

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Components with critical values that require monitoring at the workplace	Not required.
Personal protective equipment	
General protective and hygienic measures	The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with eyes and skin.
Breathing equipment	Use breathing protection with high concentrations.
Hand protection	Use proper protective gloves.
Eye protection	Safety glasses with side-shields
Body protection	Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form Solid

pH	Not determined
Melting point/Melting range	126-131°C - lit.
Boiling point/Boiling range	Not determined
Flash point	Not applicable
Ignition temperature	Not determined
Lower critical values for explosion	Not determined
Upper critical values for explosion	Not determined
Water solubility	Not determined

## 10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	no data available
Materials to avoid	Strong oxidizing agents, Trimethylaluminum
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions: Carbon oxides, Hydrogen fluoride, Borane/boron oxides

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	no data available
Skin corrosion/irritation	no data available
Serious eye damage/ eye irritation	no data available
Respiratory or skin sensitization	no data available
Germ cell mutagenicity	no data available
Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	no data available
Specific target organ toxicity – single exposure	Inhalation - May cause respiratory irritation.
Specific target organ toxicity – repeated exposure	no data available
Aspiration hazard	no data available
Potential health effects	
Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
Additional Information	RTECS: Not available

## 12. ECOLOGICAL INFORMATION

Toxicity	no data available
Persistence and degradability	no data available
Bioaccumulative potential	no data available
Mobility in soil	no data available
PBT and vPvB assessment	no data available
Other adverse effects	no data available

## 13. DISPOSAL CONSIDERATIONS

Product	Consult state, local or national regulations for proper disposal. Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations.
Uncleaned packagings	Disposal must be made according to official regulations. Dispose as unused product.

## 14. TRANSPORT INFORMATION

ADR/RID	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods
Transport/Additional information	Not dangerous according to the above specifications.

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## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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## 16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Eye Irrit.	Eye irritation
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Skin Irrit.	Skin irritation
STOT SE	Specific target organ toxicity - single exposure
Xi	Irritant
R36/37/38	Irritating to eyes, respiratory system and skin.

### Warranty

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Intatrade Chemicals GmbH shall not be held liable for any damage resulting from handling or from contact with the above product.