## SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-22 Print Date: 2024-01-29

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

## 1.1 Product identifiers

Product name	: Boron trifluoride phenol complex (1:2)
Product Number	: B466520
Brand	: aladdin
CAS-No.	: 462-05-5

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

l	dentified uses	:	Laborator	v	chemicals,Manufacture of substances.
		•			

## 1.3 Company

Company	: ALADDIN SCIENTIFIC CORPORATION
Address	: 14078 Meridian Parkway,
Riverside, CA. 92518	
Telephone	: +1 (833) 552-7181
Fax	: no data available

#### 1.4 Emergency telephone number

CHEMTREC®, Inside the USA	: 1-800-424-9300
CHEMTREC®, Outside the USA	:

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Classification according to Regulation (EC) No 1272/2008

Flammable liquids (Category 3),H226

Acute toxicity, Oral (Category 3), H301

Skin corrosion (Sub-category 1B),H314

## 2.2 GHS Label elements, including precautionary statements

Pictogram	no data available
Signal word	Danger
Hazard statement(s)	
H226	Flammable liquid and vapor
H314	Causes severe skin burns and eye damage



H301+H331	Toxic if swallowed or if inhaled
Precautionary statement(s)	
P210	Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P301+P310+P330	IF SWALLOWED: Rinse mouth.Immediately call a POISON CENTER/doctor/.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

### SECTION 3: Composition/information on ingredients

#### 3.1 **Substances** Synonyms : no data available Formula : BF3·2C6H5OH Molecular weight : 256.03 CAS No. : 462-05-5 EC-NO. : no data available Classification Concentration

## Component

Boron trifluoride phenol

complex (1:2)

no data available

25-27% BF<sub>3</sub> basis

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General advice

Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention



is required. Keep eye wide open while rinsing.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

no data available

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Dry powder Unsuitable extinguishing media no data available

## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, Hydrogen fluoride, Borane/boron oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

Use water spray to cool unopened containers.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.

## 6.4 Reference to other sections

## For disposal see section 13.

ALADDIN SCIENTIFIC CORPORATION 14078 Meridian Parkway, Riverside, CA. 92518

#### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage. Do not store in glass

#### 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it. Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

a) Appearance	form: liquid color: red brown
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	178 °C - lit.
g) Flash point	35 ℃
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or	
explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties N	no data available
t) Oxidizing properties N	no data available

#### 9.2 Other safety information

no data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

no data available

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

no data available

#### 10.4 Conditions to avoid

Reacts dangerously with glass. Heat, flames and sparks. Exposure to moisture.

#### 10.5 Incompatible materials

glass

ALADDIN SCIENTIFIC CORPORATION 14078 Meridian Parkway, Riverside, CA. 92518

## 10.6 Hazardous decomposition products

Carbon oxides, Hydrogen fluoride, Borane/boron oxides

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitisation no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information no data available

## SECTION 12: Ecological information

## 12.1 Toxicity

no data available

## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

no data available

ALADDIN SCIENTIFIC CORPORATION 14078 Meridian Parkway, Riverside, CA. 92518

#### 12.5 Results of PBT and vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

#### SECTION 13:

#### 13.1 Disposal considerations

#### Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance. Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

DOT (US)		
UN number: 3489	Packing group: I	Class: 6.1 (3, 8)
Proper shipping name: TOXIC BY	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: no data
INHALATION LIQUID, FLAMMABLE,	available	available
CORROSIVE, N.O.S. (Boron trifluoride		
phenol complex (1:2))		
Environmental Hazards: no		
IMDG		
UN number: 3489	Packing group: I	EMS-No: no data available
Proper shipping name: TOXIC BY INH complex (1:2))	ALATION LIQUID, FLAMMABLE, CORROS	IVE, N.O.S. (Boron trifluoride phenol
ΙΑΤΑ		
UN number: 3489	Packing group: I	Class: 6.1 (3, 8)
Proper shipping name: TOXIC BY INH complex (1:2))	ALATION LIQUID, FLAMMABLE, CORROS	IVE, N.O.S. (Boron trifluoride phenol

## SECTION 15: Regulatory information

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

### **SECTION 16: Other information**



Prepared By	ALADDIN SCIENTIFIC CORPORATION Email: QualityAssurance@aladdinsci.com		
Creation Date	24-Aug-2023		
Revision Date	22-Jan-2024		
Print Date	29-Jan-2024		
Revision Summary	SDS sections updated v1		

#### Disclaimer

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. 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. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Populatory Affairs