

# **SAFETY DATA SHEET**

Version 6.2 Revision Date 09/16/2021 Print Date 02/11/2022

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

1.1 Product identifiers

Product name : 1,3-Bis(2,6-diisopropylphenyl)-4,5-

dihydroimidazolium tetrafluoroborate

Product Number : 693553
Brand : Aldrich
CAS-No. : 282109-83-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.

3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES

Telephone : +1 314 771-5765 Fax : +1 800 325-5052

1.4 Emergency telephone

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-

527-3887 CHEMTREC (International) 24

Hours/day; 7 Days/week

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 4), H332 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

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Millipore SigMa

H314 H332	Causes severe skin burns and eye damage. Harmful if inhaled.
Precautionary statement(s)	
P260	Do not breathe dusts or mists.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
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/ shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 +	IF IN EYES: Rinse cautiously with water for several minutes.
P310	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363	Wash contaminated clothing before reuse.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Hazard statement(s)

Synonyms : SIPr-HBF4

4,5-Dihydro-1,3-bis(2,6-diisopropylphenyl)imidazolium

tetrafluoroborate

N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium

tetrafluoroborate

Formula :  $C_{27}H_{39}BF_4N_2$ Molecular weight : 478.42 g/mol CAS-No. : 282109-83-5

Component	Classification	Concentration	
N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium tetrafluoroborate			
	Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H332, H314, H318	<= 100 %	

For the full text of the H-Statements mentioned in this Section, see Section 16.



#### **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 HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure.

#### In case of skin contact

First treatment with calcium gluconate paste.

# 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

No data available

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

Carbon oxides Nitrogen oxides (NOx) Hydrogen fluoride Borane/boron oxides

#### **5.3** Advice for firefighters

No data available

#### 5.4 Further information

No data available

## SECTION 6: Accidental release measures

# **6.1 Personal precautions, protective equipment and emergency procedures** For personal protection see section 8.

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#### **6.2 Environmental precautions**

No data available

#### 6.3 Methods and materials for containment and cleaning up

No data available

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#### 6.4 Reference to other sections

For disposal see section 13.

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

## 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Moisture sensitive. Store under inert gas.

#### Storage class

Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

No data available

## **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance Form: solid

Color: off-white

b) Odor No data available

c) Odor Threshold No data available

d) pH No data available

e) Melting point/range: > 300 °C (> 572 °F)

f) Initial boiling point

and boiling range

point/freezing point

ling point No data available

g) Flash point ()No data available

h) Evaporation rate No data available

i) Flammability (solid, No data available

gas)

j) Upper/lower No data available

flammability or explosive limits

k) Vapor pressure No data availablel) Vapor density No data available

m) Density No data available
 Relative density No data available
 n) Water solubility No data available
 o) Partition coefficient: No data available n-octanol/water

p) Autoignition No data available temperature

q) Decomposition No data available temperature

r) Viscosity No data availables) Explosive properties No data availablet) Oxidizing properties 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

No data available

#### 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

# **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

# **Acute toxicity**

Oral: No data available

Acute toxicity estimate Inhalation - 4 h - 1.5 mg/l

(Expert judgment)

Dermal: No data available **Skin corrosion/irritation** 

Causes skin burns.

# Serious eye damage/eye irritation

Causes serious eye damage.



# Respiratory or skin sensitization

No data available

## Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

# 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

#### 11.2 Additional Information

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia. Lung irritation, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence

#### **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

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

No data available

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

No data available

#### **SECTION 14: Transport information**

DOT (US)

UN number: 1759 Class: 8 Packing group: II Proper shipping name: Corrosive solids, n.o.s. (N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium tetrafluoroborate)

Reportable Quantity (RQ): Poison Inhalation Hazard: No

**IMDG** 

UN number: 1759 Class: 8 Packing group: II EMS-No: F-A, S-B

Proper shipping name: CORROSIVE SOLID, N.O.S. (N,N'-Bis(2,6-

diisopropylphenyl)dihydroimidazolium tetrafluoroborate)

**IATA** 

UN number: 1759 Class: 8 Packing group: II Proper shipping name: Corrosive solid, n.o.s. (N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium tetrafluoroborate)

## **SECTION 15: Regulatory information**

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

# **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium CAS-No. Revision Date tetrafluoroborate 282109-83-5

N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium CAS-No. Revision Date tetrafluoroborate 282109-83-5

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# **New Jersey Right To Know Components**

N,N'-Bis(2,6-diisopropylphenyl)dihydroimidazolium tetrafluoroborate

CAS-No. 282109-83-5

**Revision Date** 

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

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com.

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