

## 1 - Product and Company Information

ProductName ISOPROPYLTRIPHENYLPHOSPHONIUM BROMIDE + SODIUM AMIDE

## 2 - Hazards Identification

### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Reacts violently with water, liberating extremely flammable gases.  
May form explosive peroxides. Causes burns.

## 3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
ISOPROPYLTRIPHENYLPHOSPHONIUM BROMIDE + SODIUM AMIDE	None	None	None

Ingredient Name	Percent	CAS #	EC no	Annex I
SODIUM AMIDE 50	7782-92-5	231-971-0		None

Symbols: F-C  
R-Phrases: 14/15-19-34

Reacts violently with water, liberating extremely flammable gases.  
May form explosive peroxides. Causes burns.

ISOPROPYLTRIPHENYLPHOSPHO50	1530-33-2	None	None
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NIUM BROMIDE

Symbols: Xi  
R-Phrases: 36/37/38

Irritating to eyes, respiratory system and skin.

## 4 - First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician immediately.

## 5 - Fire Fighting Measures

### EXTINGUISHING MEDIA

Suitable: Sand or dry powder type agents specially designed for metal powder fires.  
Unsuitable: Do not use water.

### SPECIAL RISKS

Specific Hazard(s): Flammable solid. Emits toxic fumes under fire conditions. Water reactive material.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6 - Accidental Release Measures

### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Cover with dry lime or soda ash, pick up, keep in a closed container, and hold for waste disposal.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Under fire conditions, material may decompose to form flammable and/or explosive mixtures in air.

### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.

Incompatible Materials: Absorbs carbon dioxide from air.

Store at 2-8°C

### SPECIAL REQUIREMENTS: Handle and store under inert gas. Air sensitive.

## 8 - Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Use only in a chemical fume hood.

### GENERAL HYGIENE MEASURES

Wash contaminated clothing before reuse. Discard contaminated shoes. Wash thoroughly after handling.

### PERSONAL PROTECTIVE EQUIPMENT

Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

Appearance	Physical State: Solid	At Temperature or Pressure
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Property	Value	At Temperature or Pressure
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pH N/A

BP/BP Range N/A

MP/MP Range N/A

Flash Point N/A

Flammability N/A

Autoignition Temp N/A

Oxidizing Properties N/A

Explosive Properties N/A

Explosion Limits N/A

Vapor Pressure N/A

Partition Coefficient N/A

Viscosity N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

Evaporation Rate N/A

Bulk Density N/A

Decomposition Temp. N/A

Solvent Content N/A

Water Content N/A

Surface Tension N/A

Conductivity N/A

Miscellaneous Data N/A

Solubility N/A

## 10 - Stability and Reactivity

### STABILITY

Stable.

Conditions of Instability: May decompose on exposure to air.

Absorbs carbon dioxide from air. Dangerously reactive chemical

Sodium amide deteriorates rapidly on exposure to air by absorbing water vapor and carbon dioxide forming oxidation products whose presence is indicated by a yellow or brown color. Material showing these colors should be disposed of immediately because it can decompose spontaneously. The following oxidation products have been identified in sodium amide, all are explosively unstable:

sodium hyponitrite, sodium trioxonitrate, sodium

tetraoxonitrate, sodium pentaoxonitrate, and sodium

hexaoxonitrate. Reaction of sodium amide with nitrogen dioxide

in carbon tetrachloride is very vigorous producing sparks.

Grinding a mixture of sodium amide and chromium trioxide leads to

a violent reaction. A mixture of sodium amide with potassium

chlorate explodes. Addition of sodium nitrite to molten sodium

amide causes an immediate gas evolution, followed by a violent

explosion.

Materials to Avoid: Reacts violently with: Water, Oxidizing

agents, Acids, Nitrites.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Hydrogen bromide gas, Phosphorous oxides.

### HAZARDOUS EXOTHERMIC REACTIONS

Hazardous Exothermic Reactions: Will not occur

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## 11 - Toxicological Information

### SYNESTOMS OF EXPOSURE

Sympotoms of exposure: shortness of breathing, headache, nausea, coughing, vomiting.

Inhalation: Inhalation may result in spasms, inflammation and edema of the larynx and bronchi, chemical pneumonia, and pulmonary edema.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Eye Contact: Causes burns.

Skin Contact: Causes burns. May be harmful if absorbed through the skin.

Ingestion: May be harmful if inhaled. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

## 12 - Ecological Information

### No data available.

## 13 - Disposal Considerations

### SUBSTANCE DISPOSAL

Incinerate in a furnace providing environmental regulations

permit. Observe all federal, state, and local environmental

regulations.

## 14 - Transport Information

### RID/ADR

UN#: 1390

Class: 4.3

PG: II

Proper Shipping Name: Alkali metal amides

IMDG

UN#: 1390

Class: 4.3

PG: II

Proper Shipping Name: Alkali metal amide

Marine Pollutant: No

Severe Marine Pollutant: No

### IATA

UN#: 1390

Class: 4.3

PG: II

Proper Shipping Name: Alkali metal amides

### Regulatory Information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F-C

F: Highly Flammable, Corrosive

R-Phrases: 14/15-19-34

Reacts violently with water, liberating extremely flammable

gases. May form explosive peroxides. Causes burns.

S-PHRASES: 16-26-37/39-45

Keep away from sources of ignition - no smoking. In case of

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

Inhalation: Take off immediately all contaminated clothing.

Wear suitable protective clothing, gloves, and

seek medical advice immediately (show the label where possible).

Caution: Substance not yet fully tested (EU).

## 16 - Other Information

For R&D use only. Not for drug, household or other uses.

WARRANTY: The warranty 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. LookChem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing

slip for additional terms and conditions of sale.

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