

Revision Date 08/04/2023

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

: BOP Reagent Product name Product Number : RC8105

Advanced ChemTech Brand

CAS-No. 56602-33-6

Relevant identified uses of the substance or mixture and uses advised against 1.2 Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Advanced ChemTech

5609 Fern Valley Rd, Louisville, KY 40228 USA

: +1 833-317-5620 Telephone : +1 502-968-1000 Fax

: +1 800-424-9300 Chemtrec 1.4 Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture: 2.1

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

Flammable solids (Category 1), H228 Skin irritation (Category 2), H315

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 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: Hazard statement(s)

Flammable solid. H228 H315 Causes skin irritation. H335 May cause respiratory irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment. P240

Use explosion-proof electrical/ ventilating/ lighting/ equipment. P241 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261 P264

Wash skin thoroughly after handling.
Use only outdoors or in a well-ventilated area P271

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for P304 + P340

breathing.
Call a POISON CENTER or doctor/ physician if you feel unwell.

P312 Specific treatment (see supplemental first aid instructions on this label). P321

P332 + P313 If skin irritation occurs: Get medical advice/ attention. P362 Take off contaminated clothing and wash before reuse.

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. P370 + P378

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Dispose of contents/ container to an approved waste disposal plant.

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Formula C₁₂H₂₂F₆N₆OP₂ Molecular Weight 442.29g/mole CAS-No. 56602-33-6

Hazardous Components

Component	Classification	Concentration
Tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate)	
	Flam. Sol. 1; Skin Irrit. 2; STOT SE	-
	3; H228, H315, H335	
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For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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

In case of skin contact: Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

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



- Most important symptoms and effects, both acute and delayed: The most important known symptoms and effects are described in the 4.2 labeling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed: No data available

5. FIREFIGHTING MEASURES

- Extinguishing media 5.1
 - Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NOx), Oxides of phosphorus, Hydrogen
- 5.3 Advice for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information: Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions, protective equipment, and emergency procedure: Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8
- Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.2
- 6.3 Methods and materials for containment and cleaning up: Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
- Reference to other sections: For disposal see section 13. 6.4

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. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. 7.2 Recommended storage temperature: 2 - 8 °C Keep in a dry place.
- Specific end use(s): Apart from the uses mentioned in section 1.2 no other specific uses are stipulated 7.3

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Control parameters
 - Components with workplace control parameters Contains no substances with occupational exposure limit values.
- Exposure controls 8.2

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 Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection impervious clothing, 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 full-face particle respirator type N100 (US) or type P3 (EN 143) 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).

Form: White to Off-White powder

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

9. PHYSICAL AND CHEMICAL PROPERTIES 9.1

THOUGHE AND GHEIMIGHET NOT ENTIED		
Information on basic physical and chemic	al properties	

a) Appearance b) Odor no data available c) Odor Threshold no data available Hq (b no data available

e) Melting point/freezing point Melting point/range: > 130 °C (> 266 °F) - dec. f) Initial boiling point and boiling range no data available

g) Flash point no data available h) Evaporation rate no data available

i) Flammability (solid, gas)
j) Upper/lower flammability or explosive limits The substance or mixture is a flammable solid with the category 1. no data available

k) Vapor pressure
l) Vapor density no data available 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 no data available t) Oxidizing properties no data available 9.2 Other safety information: no data available

10. STABILITY AND REACTIVITY

- Reactivity: No data available 10.1
- 10.2 Chemical stability: Stable under recommended storage conditions.



10.3 Possibility of hazardous reactions: No data available

10.4 Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials: Strong oxidizing agents

10.6 Hazardous decomposition products: Other decomposition products - no data available. In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No data available Inhalation: No data available Dermal: 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.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

NTP: No component 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 identified as a carcinogen or potential

carcinogen by OSHA.

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

Additional Information: RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 1325 Class: 4.1 Packing group: II

Proper shipping name: Flammable solids, organic, n.o.s. (Tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate)

Reportable Quantity (RQ): Marine pollutant: No Poison Inhalation Hazard: No

IMDG

UN number: 1325 Class: 4.1 Packing group: II EMS-No: F-A, S-G

Proper shipping name: FLAMMABLE SOLID, ORGANIC, N.O.S. Tri(dimethylamino)benzotriazol-1-yloxyphosphonium

hexafluorophosphate) Marine pollutant: No

IATA

UN number: 1325 Class: 4.1 Packing group: II

Proper shipping name: Flammable solid, organic, n.o.s. (Tri(dimethylamino)benzotriazol-1-yloxyphosphonium hexafluorophosphate)

15. REGULATORY INFORMATION

SARA 302 Components

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

SARA 313 Components

SARA 313: 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.

reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards: Fire Hazard, Acute Health Hazard

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

Pennsylvania Right to Know Components

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New Jersey Right to Know Components

BOP Reagent CAS-No. Revision Date

56602-33-6

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



SAFETY DATA

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Flam. Sol.

Flammable solids

H228

Flammable solid.

Causes skin irritation.

H335

May cause respiratory irritation

Skin Irrit.

STOT SE

HMIS Rating

Health bazard:

2

May cause respiratory irritation. Skin irritation

Specific target organ toxicity - single exposure

Health hazard:

2 Chronic Health Hazard: Flammability: Physical Hazard 3 3 NFPA Rating Health hazard:

2 3 3 Fire Hazard: Reactivity Hazard:

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. Advanced ChemTech shall not be liable for any damage resulting in the handling or from contact with the above product.