

World Headquarters  
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MSDS No: M00069

## SAFETY DATA SHEET

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

**Product Name:** Potassium 3 Reagent  
**Catalog Number:** 1432399

HACH LANGE GmbH  
Willstätterstrasse 11  
40549 Düsseldorf, Germany  
+49-(0)211-52880

Emergency Telephone Numbers:  
(Poison Information Center Main)  
(+49 (0) 6131 19240) 24 HR

**SDS Number:** M00069  
**Chemical Name:** Sodium Tetraphenylborate  
**Chemical Formula:** C<sub>24</sub>H<sub>20</sub>BNa  
**Chemical Family:** Aromatic Compounds  
**Use of the substance/preparation:** Determination of potassium  
**CAS No.:** 143-66-8

**Hazard:** Toxic properties unknown. May cause irritation.

**Date of MSDS Preparation:**

**Day:** 11

**Month:** April

**Year:** 2007

**Additional Emergency Response Numbers:** Austria: +49 (0)6131 19240, Belgium: +32-(0)70-245245, France: +33-(0)1-40370404, Italy: +39-02-66101029, Netherlands: +31-(0)30-2748888, Switzerland: +41-(0)1-2515151

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### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Sodium Tetraphenylborate**

**EEC Number:** 2056055

**CAS No.:** 143-66-8

**Percent Range:** 100,0

**Percent Range Units:** weight / weight

**Ingredient EEC Symbol:** Not applicable

**Ingredient R phrase(s) (R phrase details given in Heading 16):** Not applicable

**TLV:** Not established

**PEL:** Not established

**EU Occupational Exposure Limits:** 3 mg/m<sup>3</sup>, Inhalable dust

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### 3. HAZARDS IDENTIFICATION

**Emergency Overview:**

**Appearance:** White crystals

**Odor:** None

**EU Symbols:** Xn - HARMFUL

**R PHRASES:** R 22: Harmful if swallowed.

***Protective Equipment:***

***Potential Health Effects:***

***Eye Contact (EC):*** May cause irritation

***Skin Contact (EC):*** May cause irritation

***Skin Absorption (EC):*** None Reported

***Target Organs (SA E):*** None Reported

***Ingestion (EC):*** May cause: nausea vomiting abdominal pain diarrhea

***Target Organs (Ing E):*** None Reported

***Inhalation:*** May cause: respiratory tract irritation

***Target Organs (Inh E):*** None Reported

***Medical Conditions Aggravated:*** None reported

***Chronic Effects:*** None reported

***Cancer / Reproductive Toxicity Information:***

IARC Listed: No

***Additional Cancer / Reproductive Toxicity Information:*** None reported

***Toxicologically Synergistic Products:*** None reported

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## 4. FIRST AID MEASURES

***Eye Contact:*** Immediately flush eyes with water for 15 minutes. Call physician.

***Skin Contact (First Aid):*** Wash skin with soap and plenty of water.

***Ingestion (First Aid):*** Give large quantities of water. Call physician immediately.

***Inhalation:*** Remove to fresh air. Give artificial respiration if necessary. Call physician.

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## 5. FIRE FIGHTING MEASURES

***Flammable Properties:*** During a fire, irritating and highly toxic gases may be generated by thermal decomposition.

***Hazardous Combustion Products:*** May emit acrid smoke and fumes.

***Fire / Explosion Hazards:*** None reported

***Static Discharge:*** None reported.

***Mechanical Impact:*** None reported

***Extinguishing Media:*** Water. Carbon dioxide Dry chemical.

***Extinguishing Media NOT To Be Used:*** Not applicable Not applicable Not applicable

***Fire Fighting Instruction:*** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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## 6. ACCIDENTAL RELEASE MEASURES

***Spill Response Notice:***

Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

***Containment Technique:*** Stop spilled material from being released to the environment.

***Clean-up Technique:*** Sweep up material. Dispose of material in an E.P.A. approved hazardous waste facility.

***Evacuation Procedure:*** Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

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## 7. HANDLING AND STORAGE

***Handling:*** Avoid contact with eyes skin Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

***Storage:*** Protect from: moisture exposure to direct sunlight. Keep container tightly closed when not in use.

*Special Packaging Instructions:* Not applicable  
*Use of the substance/preparation:* Determination of potassium

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## 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

*Engineering Controls:* Maintain general industrial hygiene practices when using this product.

*Personal Protective Equipment:*

*Eye Protection:* safety glasses with top and side shields

*Skin / Hand Protection:* disposable latex gloves lab coat

*Inhalation Protection:* adequate ventilation

*Precautionary Measures:* Avoid contact with: eyes skin Do not breathe: dust Wash thoroughly after handling. Protect from: moisture light

*TLV:* Not established

*PEL:* Not established

*EU Occupational Exposure Limits:* 3 mg/m<sup>3</sup>, Inhalable dust

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## 9. PHYSICAL / CHEMICAL PROPERTIES

*Appearance:* White crystals

*Physical State:* Solid

*Odor:* None

*pH:* 5% soln. = 9,6

*Vapor Pressure:* Not applicable

*Vapor Density (air = 1):* Not applicable

*Boiling Point:* Not applicable

*Melting Point:* >300°C (>572°F)

*Flash Point:* Not applicable

*Method:* Not applicable

*Autoignition Temperature:* Not determined

*Flammability Limits:*

*Lower Explosion Limits:* Not applicable

*Upper Explosion Limits:* Not applicable

*Specific Gravity (water = 1):* Not determined

*Evaporation Rate (water = 1):* Not applicable

*Volatile Organic Compounds Content:* Not applicable

*Partition Coefficient (n-octanol / water):* Not determined

*Solubility:*

*Water:* Soluble

*Acid:* Unstable in acid

*Other:* Soluble in acetone

*Metal Corrosivity:*

*Steel:* Not determined

*Aluminum:* Not determined

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## 10. STABILITY / REACTIVITY

*Chemical Stability:* Stable when stored under proper conditions.

*Conditions to Avoid:* Excess moisture Exposure to air. Heating to decomposition.

*Reactivity / Incompatibility:* Incompatible with: strong acids oxidizers

*Hazardous Decomposition:* Combustion gives off black, sooty, toxic smoke

*Hazardous Polymerization:* Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

**Product Toxicological Data:**

**LD50:** None reported

**LC50:** None reported

**Dermal Toxicity Data:** None reported

**Skin and Eye Irritation Data:** None reported

**Mutation Data:** None reported

**Reproductive Effects Data:** None reported

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**Ingredient Toxicological Data:** Not applicable

Not applicable

IARC Listed: No

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## 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** No information available for this product

Not applicable

**Ingredient Ecological Information:** Not applicable

Not applicable

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## 13. DISPOSAL CONSIDERATIONS

**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

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## 14. TRANSPORT INFORMATION

**I.C.A.O.:**

**I.C.A.O. Proper Shipping Name:** Not Currently Regulated

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**ICAO Hazard Class:** NA

**ICAO Subsidiary Risk:** NA

**ICAO UN/ID Number:** NA

**ICAO Packing Group:** NA

**I.M.O.:**

**I.M.O. Proper Shipping Name:** Not Currently Regulated

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**I.M.O. Hazard Class:** NA

**I.M.O. Subsidiary Risk:** NA

**I.M.O. UN Number:** NA

**I.M.O. Packing Group:** NA

**A.D.R.:**

**A.D.R. Proper Shipping Name:** Not Currently Regulated

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**A.D.R Hazard Class:** NA

**A.D.R. Subsidiary Risk:** NA

**A.D.R. UN-Number::** NA

**A.D.R. Packing Group:** NA

**Additional Information:** This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

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## 15. REGULATORY INFORMATION

*National Inventories:*

*EEC Inventory Status:* EINECS Listed: Yes

*EEC Number:* 2056055

*EEC LABEL COPY:*

*EU Symbols:* Xn - HARMFUL

*R PHRASES:* R 22: Harmful if swallowed.

*S PHRASES:* Not applicable

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## 16. OTHER INFORMATION

*References:* 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Technical Judgment. The Merck Index, 11th Ed. Rahway, New Jersey: Merck and Co., Inc., 1989. Vendor Information. In-house information.

*R PHRASES:* R 22: Harmful if swallowed.

*Use of the substance/preparation:* Determination of potassium

*Revision Summary:* Updates in Section(s) 14,

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### Legend:

NA - Not Applicable	w/w - weight/weight
ND - Not Determined	w/v - weight/volume
NV - Not Available	v/v - volume/volume

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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