Printing date 07/31/2016

Reviewed on 07/31/2016

1 Identification

- · Product name
- · Trade name: Potassium t-butoxide, min. 98%
- Item number: 93-1910
- · CAS Number:
- 865-47-4
- *EC number:* 212-740-3
- Details of the supplier of the safety data sheet • Manufacturer/Supplier:
- Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com
- · Information department: Technical Department
- Emergency telephone number: EMERGENCY: CHEMTREC: + 1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture



Water-react. 1 H260 In contact with water releases flammable gases, which may ignite spontaneously.

GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · GHS label elements
- *The substance is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Danger

Hazard-determining components of labeling: potassium tert-butanolate
Hazard statements H260 In contact with water releases flammable gases, which may ignite spontaneously. H314 Causes severe skin burns and eye damage.
Precautionary statements

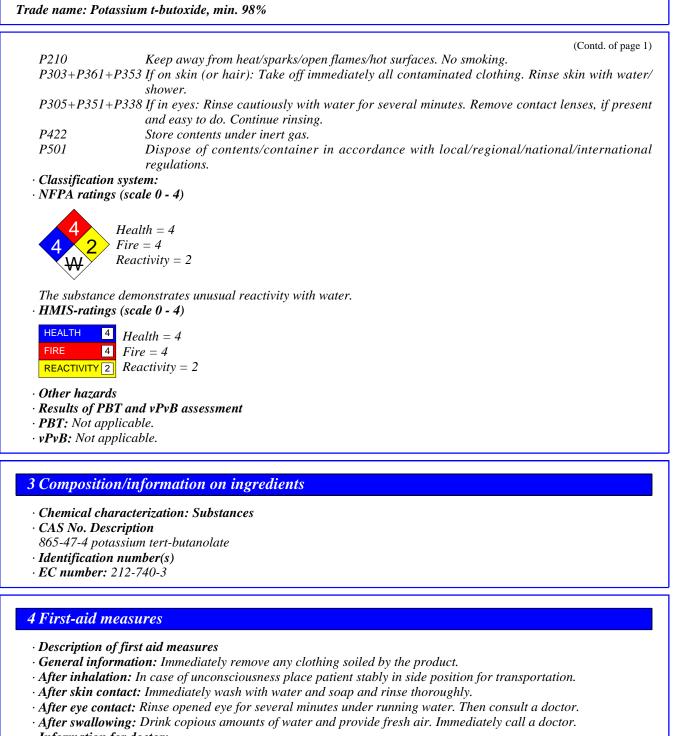
P231+P232 Handle under inert gas. Protect from moisture.

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- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Sand. Do not use water. CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Use neutralizing agent.
 Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
 Do not flush with water or aqueous cleansing agents
 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and storage

- · Handling: Handle under inert gas.
- · Precautions for safe handling
- Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store contents under inert gas.
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

• Additional information about design of technical systems: No further data; see item 7.

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(Contd. of page 3)
· Control parameters
• Components with limit values that require monitoring at the workplace: Not required.
• Additional information: The lists that were valid during the creation were used as basis.
• Exposure controls
· Personal protective equipment:
• General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· Breathing equipment:
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use
respiratory protective device that is independent of circulating air.
· Protection of hands:
Protective gloves
Froiective gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
• Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
varies from manufacturer to manufacturer.
· Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
· Eye protection:
(Tightly sealed goggles)
9 Physical and chemical properties
· Information on basic physical and chemical properties
· General Information
· Appearance:

· Appearance:	
Form:	Powder
Color:	Whitish
· Odor:	Alcohol-like
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	256 dec °C (493 dec °F)
Boiling point/Boiling range:	no data °C

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Trade name: Potassium t-butoxide, min. 98%

		(Contd. of page
· Flash point:	Not applicable.	
· Flammability (solid, gaseous):	Flammable. Contact with water liberates extremely flammable gases.	
· Ignition temperature:		
Decomposition temperature:	Not determined.	
· Auto igniting:	Not determined.	
• Danger of explosion:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
· Vapor pressure:	not appli hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
Water:	Insoluble.	
· Partition coefficient (n-octanol/wa	ter): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
Solids content:	100.0 %	
• Other information	No further relevant information available.	

10 Stability and reactivity

· Reactivity No further relevant information available.

· Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Possibility of hazardous reactions Contact with water releases flammable gases.

· Conditions to avoid No further relevant information available.

- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Strong caustic effect on skin and mucous membranes.

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 \cdot on the eye:

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

 Sensitization: No sensitizing effects known.
 Additional toxicological information: Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN3096
UN proper shipping name	
DOT, IATA	Corrosive solids, water-reactive, n.o.s. (potassium tert-butanolate)
·IMDG	CORROSIVE SOLID, WATER-REACTIVE, N.O.S. (potassium ter
	butanolate)

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	(Contd. of page
Transport hazard class(es)	
DOT	
\wedge	
CORROSIVE DANGEROUS (#*	
Class	8 Corrosive substances
Label	8, 4.3
IMDG	
8	
Class	8 (Corrosive substances
Label	8/4.3
IATA	
8	
Class	8 Corrosive substances
Label	8 (4.3)
Packing group DOT, IMDG, IATA	Ι
	1
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	48
EMS Number:	F-G,S-L
Stowage Category	
Handling Code	H1 Keep as dry as reasonably practicable
Segregation Code	SG26 In addition: from goods of classes 2.1 and 3 when stowed deck of a containership a minimum distance of two container space
	athwartship shall be maintained, when stowed on ro-ro ships
	distance of 6 m athwartship shall be maintained.
Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	<i>II of</i> Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 1 kg
	On cargo aircraft only: 25 kg
IMDG	
Limited quantities (LQ)	0
Excepted quantities (EQ)	Code: E0
	Not permitted as Excepted Quantity
	· · · · ·

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· UN "Model Regulation":

UN 3096 CORROSIVE SOLIDS, WATER-REACTIVE, N.O.S. (POTASSIUM TERT-BUTANOLATE), 8 (4.3), I

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

• Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is listed.

· Proposition 65

· Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

• GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

• Hazard pictograms



· Signal word Danger

· Hazard-determining components of labeling:

potassium tert-butanolate

· Hazard statements

H260 In contact with water releases flammable gases, which may ignite spontaneously. H314 Causes severe skin burns and eye damage.

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Trade name: Potassium t-butoxide, min. 98%

	(Contd. of page 8)
· Precautionary stat	tements
P231+P232	Handle under inert gas. Protect from moisture.
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P303+P361+P353	<i>B If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</i>
P305+P351+P338	8 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P422	Store contents under inert gas.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical safety as	ssessment: A Chemical Safety Assessment has not been carried out.
6 Other informat	ion

Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Date of preparation / last revision 07/31/2016 / -· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1