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CHEMICALS, INC.

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110 1	
	uct identifier
Trade na	me: <u>Potassium t-butoxide, min. 98%</u>
	<b>iber:</b> 93-1910
<b>CAS Nur</b> 865-47-4	
EC numl	per:
212-740-	
	ant identified uses of the substance or mixture and uses advised against or relevant information available.
	ls of the supplier of the safety data sheet
Manufac	turer/Supplier:
	emicals, Inc.
7 Mullike NEWBUI	n way RYPORT, MA 01950
USA	
info@str	em.com
	information obtainable from: Technical Department
	gency telephone number: ENCY: CHEMTREC: + 1 (800) 424-9300
	ormal opening times: +1 (978) 499-1600
<b>SECTI</b>	ON 2: Hazards identification
	GHS02 flame
Water-re	act. 1 H260 In contact with water releases flammable gases which may ignite spontaneously.
FR	GHS05 corrosion
	GHS05 corrosion
Skin Cort	GHS05 corrosion r. 1B H314 Causes severe skin burns and eye damage.
2.2 Labe	r. 1B H314 Causes severe skin burns and eye damage. elements
2.2 Label Labelling	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008
<b>2.2 Labe</b> <b>Labelling</b> The subs	r. 1B H314 Causes severe skin burns and eye damage. elements
<b>2.2 Labe</b> <b>Labelling</b> The subs	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 cance is classified and labelled according to the CLP regulation.
<b>2.2 Labe</b> <b>Labelling</b> The subs	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 cance is classified and labelled according to the CLP regulation.
2.2 Label Labelling The subst Hazard p	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 tance is classified and labelled according to the CLP regulation. ictograms
<b>2.2 Labe</b> <b>Labelling</b> The subs	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 cance is classified and labelled according to the CLP regulation.
2.2 Label Labelling The subst Hazard p GHS02	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 tance is classified and labelled according to the CLP regulation. ictograms
2.2 Label Labelling The subst Hazard p GHS02 Signal wo Hazard-o	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 cance is classified and labelled according to the CLP regulation. ictograms GHS05 ord Danger letermining components of labelling:
2.2 Label Labelling The subst Hazard p GHS02 Signal w Hazard-d potassiun	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 sance is classified and labelled according to the CLP regulation. ictograms GHS05 ord Danger letermining components of labelling: n tert-butanolate
2.2 Laber Labelling The subst Hazard p GHS02 Signal we Hazard-o potassiun Hazard s	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 sance is classified and labelled according to the CLP regulation. ictograms GHS05 ord Danger eletermining components of labelling: n tert-butanolate tatements
2.2 Laber Labelling The subst Hazard p GHS02 Signal we Hazard-o potassiun Hazard s H260 In	r. 1B H314 Causes severe skin burns and eye damage. elements g according to Regulation (EC) No 1272/2008 sance is classified and labelled according to the CLP regulation. ictograms GHS05 ord Danger letermining components of labelling: n tert-butanolate

# CHEMICALS, INC.

### Safety data sheet according to 1907/2006/EC, Article 31

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· Precautionary sta	atements and the second s
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P231+P232	Handle under inert gas. Protect from moisture.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P303+P361+P35	3 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P33	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.
· Additional inform	nation:
	• 1 . 1 • . 1 .

EUH014 Reacts violently with water.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

• **vPvB:** Not applicable.

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

· 3.1 Chemical characterisation: Substances · CAS No. Description

865-47-4 potassium tert-butanolate

· Identification number(s)

• EC number: 212-740-3

### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

 $\cdot$  Suitable extinguishing agents:

- Sand. Do not use water. CO2, sand, extinguishing powder. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.

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- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up:
- Use neutralising agent. Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents
- 6.4 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.

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

- 7.1 Precautions for safe handling Thorough dedusting. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- · Handling: Handle under inert gas.
- *Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.*
- · 7.2 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 container tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

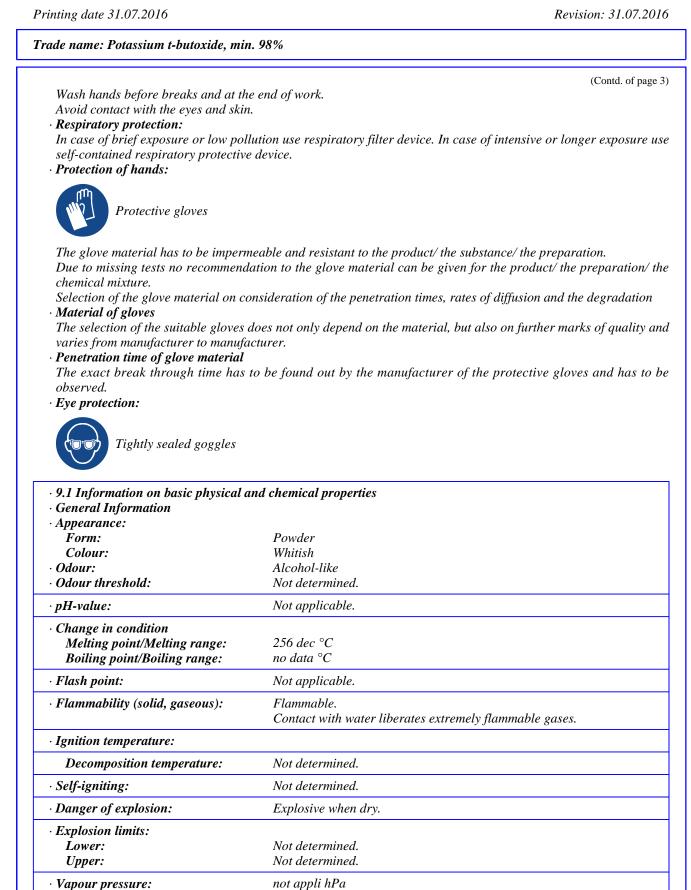
### **SECTION 8: Exposure controls/personal protection**

- · Additional information about design of technical facilities: No further data; see item 7.
- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

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Not determined.

· Density:

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		(Contd. of page
· Relative density	Not determined.	
· Vapour density	Not applicable.	
· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient (n-octano	I/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
Organic solvents:	0.0 %	
VÕC (EC)	0.00 %	
Solids content:	100.0 %	
• 9.2 Other information	No further relevant information available.	

### **SECTION 10: Stability and reactivity**

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions Contact with water releases flammable gases.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- $\cdot$  Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- *Reproductive toxicity* Based on available data, the classification criteria are not met.
- $\cdot \textit{STOT-single exposure Based on available data, the classification criteria are not met.}$
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.

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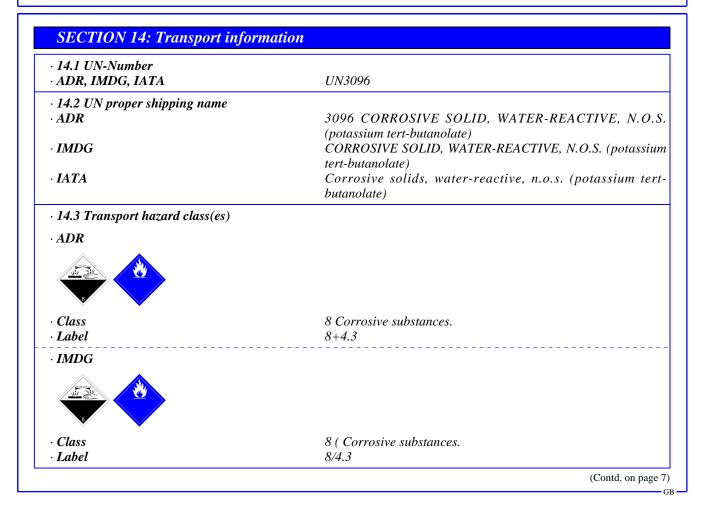
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- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
- · 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.
- **SECTION 13: Disposal considerations**
- · 13.1 Waste treatment methods
- · Recommendation

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

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



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de name: Potassium t-butoxide, min. 98%				
	(Contd. of page			
· Class · Label	8 Corrosive substances. 8 (4.3)			
· 14.4 Packing group · ADR, IMDG, IATA	Ι			
· 14.5 Environmental hazards: · Marine pollutant:	No			
<ul> <li>14.6 Special precautions for user</li> <li>Danger code (Kemler):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Handling Code</li> <li>Segregation Code</li> </ul>	Warning: Corrosive substances. 48 F-G,S-L D H1 Keep as dry as reasonably practicable SG26 In addition: from goods of classes 2.1 and 3 whe stowed on deck of a containership a minimum distance of tw container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall b maintained.			
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	ex II of Not applicable.			
· Transport/Additional information:				
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity			
· Transport category · Tunnel restriction code	2 D/E			
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	0 Code: E0 Not permitted as Excepted Quantity			
· UN ''Model Regulation'':	UN 3096 CORROSIVE SOLID, WATER-REACTIVE, N.O.S (POTASSIUM TERT-BUTANOLATE), 8 (4.3), I			

### **SECTION 15: Regulatory information**

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- · Named dangerous substances ANNEX I Substance is not listed.
- · Seveso category O1 Substances or mixtures with hazard statement EUH014
- $\cdot$  Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- $\cdot$  Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

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· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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#### **SECTION 16: 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 MSDS: Technical Department. · Contact: Technical Director · Abbreviations and acronvms: 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 IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Water-react. 1: Substances and Mixtures which, in contact with water, emit flammable gases, Hazard Category 1 Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B GB

