Printing date 07/29/2016

Reviewed on 07/29/2016

# **1 Identification**

- · Product name
- · Trade name: Potassium sodium alloy 78:22 (99.95%)
- *Item number:* 19-1910
- CAS Number: 11135-81-2
- · 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. 1B 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

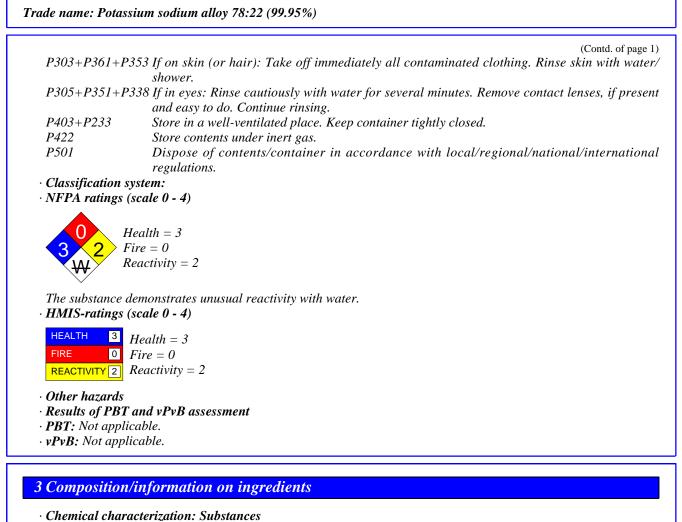
- Hazard-determining components of labeling: Potassium sodium alloy 78:22 (99.95%)
  Hazard statements H260 In contact with water releases flammable gases, which may ignite spontaneously. H314 Causes severe skin burns and eye damage.
  Precautionary statements
- P231+P232 Handle under inert gas. Protect from moisture.

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· CAS No. Description

11135-81-2 Potassium sodium alloy 78:22 (99.95%)

#### 4 First-aid measures

- · 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 copious amounts of water and provide fresh air. Immediately call a doctor.
- · 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.

#### **5** *Fire-fighting measures*

- · Extinguishing media
- *Suitable extinguishing agents:* Sand. Do not use water.

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CO2, sand, extinguishing powder. Do not use water.

Trade name: Potassium sodium alloy 78:22 (99.95%)

- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.

· Advice for firefighters

· Protective equipment: No special measures required.

#### **6** Accidental release measures

- *Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.*
- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- $\cdot$  Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 Open and handle receptacle with care.* 

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

· 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.

· 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.

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<sup>·</sup> Control parameters

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- · Breathing equipment: Not required.
- Protection of hands:



Protective 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  $\cdot$  *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.





Tightly sealed goggles

Information on basic physical and a	chemical properties	
General Information Appearance:		
Form:	Liquid	
Color:	Silver grey	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-12.6 °C (9 °F)	
Boiling point/Boiling range:	785 °C (1445 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
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:	no data hPa	
Density at 20 °C (68 °F):	0.855 g/cm <sup>3</sup> (7.135 lbs/gal)	

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Trade name: Potassium sodium alloy 78:22 (99.95%)

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· Relative density	Not determined.	
· Vapor density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/w	ater): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	0.0 %	
VOC content:	0.0 g/l / 0.00 lb/gl	
• 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: Caustic effect on skin and mucous membranes.
- 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.

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Trade name: Potassium sodium alloy 78:22 (99.95%)

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#### **12 Ecological information**

· Toxicity

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- 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, IATA	UN1422
UN proper shipping name DOT, IATA	Potassium sodium alloys, liquid
· Transport hazard class(es)	
·DOT	
· Class · Label	4.3 Substances which, in contact with water, emit flammable gases 4.3
· IATA	
· Class	4.3 Substances which, in contact with water, emit flammable gases
· Label	4.3

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Trade name: Potassium sodium alloy 78:22 (99.95%)

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• Environmental hazards: • Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
• DOT • Quantity limitations	On passenger aircraft/rail: Forbidden On cargo aircraft only: 1 L
· UN ''Model Regulation'':	UN 1422 POTASSIUM SODIUM ALLOYS, LIQUID, 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 not 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.

 $\cdot$  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).

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· Hazard pictogr	ams	
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GHS02 GH	S05	
· Signal word Da	anger	
· Hazard-determ	ining components of labeling:	
	um alloy 78:22 (99.95%)	
· Hazard stateme		
	t with water releases flammable gases, which may ignite spontaneous	y.
	evere skin burns and eye damage.	
• <b>Precautionary</b> P231+P232		
	Handle under inert gas. Protect from moisture. 353 If on skin (or hair): Take off immediately all contaminated clot	hing Rinse skin with wate
1 505 1 501 1	shower.	ning. Rinse skin with wate
P305+P351+P	338 If in eyes: Rinse cautiously with water for several minutes. Remo	ove contact lenses, if prese
	and easy to do. Continue rinsing.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P422	Store contents under inert gas.	
	•	
P501 • Chemical safet	Dispose of contents/container in accordance with local/region regulations. y assessment: A Chemical Safety Assessment has not been carried out.	
P501 • Chemical safet 6 Other inform	Dispose of contents/container in accordance with local/regin regulations. y assessment: A Chemical Safety Assessment has not been carried out mation	
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