



1 Identification
Product identifier
Product name: Potassium, chunks, in mineral oil
Stock number: L13267 CAS Number:
7440-09-7 EC number:
231-119-8
Index number: 019-001-00-2
Relevant identified uses of the substance or mixture and uses advised against.
Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet
Details of the supplier of the safety data sheet Manufacturer/Supplier:
Alfa Aesar Thermo Fisher Scientific Chemicals, Inc.
30 Bond Street Ward Hill, MA 01835-8099
Tel: 800-343-0660
Fax: 800-322-4757 Email: tech@alfa.com
www.alfa.com Information Department: Health, Safety and Environmental Department
Emergency telephone number:
During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.
2 Hazard(s) identification
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
GHS02 Flame
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. Hazards not otherwise classified No information known.
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms
GHS02 GHS05
Signal word Danger Hazard statements
H260 In contact with water releases flammable gases which may ignite spontaneously. H314 Causes severe skin burns and eye damage.
Precautionary statements
Profit Causes servere skin burns and eye damage. Precautionary statements P231+P232 Handle under inert gas. Protect from moisture. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up.
P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification
B6 - Reactive flammable material D2B - Toxic material causing other toxic effects
E - Corrosive material
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH B Health (acute effects) = $3$
FIRE     FILE     FILE     FILE       REACTIVITY     Physical Hazard = 3
Other hazards
Results of PBT and vPvB assessment PBT: Not applicable.
vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
7440-09-7 Potassium
Identification number(s): EC number: 231-119-8
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Product name: Potassium, chunks, in mineral oil	
	(Contd. of page 1)
4 First-aid measures	
Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.	
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor	
Most important symptoms and effects, both acute and delayed Causes severe skin burns.	
Causes serious eye damage. <b>Indication of any immediate medical attention and special treatment needed</b> No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media	
Suitable extinguishing agents Special powder for metal fires. Do not use water. For safety reasons unsuitable extinguishing agents Water	
Special nazaros arising from the substance or mixture Reacts violently with water	
If this product is involved in a fire, the following can be released: Potassium oxide	
Advice for firefighters Protective equipment:	
Wear self-contained respirator. Wear fully protective impervious suit.	
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources	
Environmental precautions: Do not allow product to reach sewage system or any water course.	
Methods and material for containment and cleaning up: Use neutralizing agent.	
Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.	
Do not flush with water or aqueous cleansing agents Prevention of secondary hazards: Keep away from ignition sources.	
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 Precautions for safe handling	
Handle under dry protective gas. Keen container tightly sealed	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Reacts violently with water Information about protection against explosions and fires: No information known.	
Conditions for safe storage, including any incompatibilities	
Storage Requirements to be met by storerooms and receptacles: No special requirements.	
Information about storage in one common storage facility: Store away from air.	
Store away from water/moisture. Store away from oxidizing agents. Further information about storage conditions:	
Further information about storage conditions: Store under dry inert gas.	
Store under dry inert gas. This product is moisture sensitive. This product is air sensitive. Protect from humidity and water. Keep container tightly sealed. Store in cool. doe contributes in well sealed containers.	
Protect from humidity and water. Keep container tightly sealed.	
Store in cool, dry conditions in well sealed containers. <b>Specific end use(s)</b> No further relevant information available.	
8 Exposure controls/personal protection	
Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 fee	et per minute.
Control parameters	
Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.	
Additional information: No data	
Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.	
The usual procedure and myglering measures The usual precautionary measures for handling chemicals should be followed.	

General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

## Product name: Potassium, chunks, in mineral oil (Contd. of page 2) Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Penetration time of glove material (in minutes)** Not determined Eye protection: Tightly sealed goggles Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Solid in mineral oil Color: Silvery-white Odorless Odor: Odor threshold: Not determined pH-value: Not applicable. Change in condition 63-64 °C (145-147 °F) 765-770 °C (1409-1418 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Contact with water liberates extremely flammable gases. Ignition temperature: Decomposition temperature: Not determined Not determined Auto igniting: Not determined Danger of explosion: Explosion limits: Lower: Not determined. Not determined Upper: Not determined Vapor pressure: Density at 20 °C (68 °F): Relative density Not applicable. 0.86 g/cm<sup>3</sup> (7.177 lbs/gal) Not determined. Vapor density Not applicable. Evaporation rate Solubility in / Miscibility with Not applicable. Water: Reacts violently Contact with water releases flammable gases Partition coefficient (n-octanol/water): Not determined. Viscosity: dynamic: kinematic: Other information Not applicable. Not applicable. No further relevant information available. 10 Stability and reactivity Reactivity Reactivity Reacts violently with water. In contact with water releases flammable gases which may ignite spontaneously. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Contact with water releases flammable gases Reacts violently with water **Conditions to avoid** No further relevant information available. Incompatible materials: Widizing agents Water/moisture Hazardous decomposition products: Potassium oxide 11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes severe skin burns. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available.

	Reviewed on 10/01/2014
Product name: Potassium, chunks, in mineral oil	
Mobility in soil No further relevant information available.	(Contd. of page 3)
Additional ecological information: General notes:	
Do not allow undiluted product or large quantities to reach grou Avoid transfer into the environment. Results of PBT and vPvB assessment	nd water, water course or sewage system.
PBT: Not applicable.	
vPvB: Not applicable. Other adverse effects No further relevant information available	9.
13 Disposal considerations	
Waste treatment methods	
Recommendation Consult state, local or national regulations t Uncleaned packagings:	
<b>Recommendation:</b> Disposal must be made according to officia	al regulations.
14 Transport information UN-Number	
DOT, IMDG, IATA	UN2257
UN proper shipping name DOT	Potassium
IMDG, IATA Transport hazard class(es)	POTASSIUM
DOT	
Class Label	4.1 Flammable solids, self-reactive substances and solid desensitised explosives. 4.3
Class Label	4.3 (W2) Substances which, in contact with water, emit flammable gases 4.3
IMDG, IATA	
<b>*</b>	
Class	4.3 Substances which, in contact with water, emit flammable gases.
Label Packing group	4.3
Packing group DOT, IMDG, IATA Environmental hazards:	I Not applicable.
Special precautions for user EMS Number:	Warning: Substances which, in contact with water, emit flammable gases F-G,S-N
EMS Number: Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2257, Potassium, 4.3, I
15 Regulatory information	
Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in a	ecific for the substance or mixture
Hazard pictograms	ccordance with 29 CFR 1910 (USHA HCS)
GHS02 GHS05	
Signal word Danger	
Hazard statements H260 In contact with water releases flammable gases which ma	av ignite spontaneously.
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	e with local/regional/national/international regulations.
<b>National regulations</b> All components of this product are listed in the U.S. Environme	ntal Protection Agency Toxic Substances Control Act Chemical substance Inventory.
All components of this product are listed on the Canadian Dom SARA Section 313 (specific toxic chemical listings) Substa	estic Substances List (DSL). nce is not listed.
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is n Prop 65 - Devidermental existing Substance is not listed	ot listed.
Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not list Prop 65 - Developmental toxicity, female Substance of list	sted.
Prop 65 - Developmental toxicity, male Substance is not liste Information about limitation of use: For use only by technical Other regulations in the second	lly qualified individuals
Substance of Very High Concern (SVHC) according to the interview of the substance of Very High Concern (SVHC) according to the interview of the substance of Very High Concern (SVHC) according to the substance of Very High Concern (	REACH Regulations (EC) No. 1907/2006. Substance is not listed. Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed.	Annex A vil of the Regulation (EC) NO 1907/2006 (REACH) for the manufacturing, placing on the
Substance is not listed.	(Contd. on page 5)
	USA

## Product name: Potassium, chunks, in mineral oil

Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	(Contd. of page 4)
<b>16 Other information</b> Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of a conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	suitability of this the product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - 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 Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: Hornational Air Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: Hornational Agentrical Statement of Transport des marchandises dustances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal dose, 90 mether dustrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Safety and Health Administration (USA) NTP: National Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	