

# Safety Data Sheet per OSHA HazCom 2012



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# Product name: Potassium hexamethyldisilazide, 0.5M inToluene

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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 severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	
5 Fire-fighting measures	
Extinguishing media Suitable extinguishing agents In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture	
Reacts violently with water If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide <b>Advice for firefighters</b>	
<b>Protective equipment:</b> 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	
Keep away from ignition sources Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Keep away from ignition sources.	
Keep away from ignition sources. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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 <b>Prevention of secondary hazards:</b> Keep away from ignition sources.	
<b>Reference to other sections</b> 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 Keep container tightly sealed.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace.	
Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture.	
Keep ignition sources away.	
Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storagong and recontrales: Stora in a cool location	
Requirements to be met by storerooms and receptacles: Store in a cool location. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from water/moisture	
Information about storage in one common storage facility: Store away from oxidizing agents. Store away from water/moisture. Further information about storage conditions: Protect from humidity and water. Keep container tightly sealed. Store in cool. dor counting in well sealed containers.	
Store in cool, dry conditions in well sealed containers. Specific end use(s) 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 feet per minute.	
Control parameters Components with limit values that require monitoring at the workplace:	
Toluene ppm	
ppm ACGIH TLV 50 (skin); Not classified as a human carcinogen Austria MAK 100 Belgium TWA 100; 150-STEL Denmark TWA 35 (skin)	

ACGIH TLV Austria MAK Belgium TWA Denmark TWA Finland TWA Solver Stell Solver St

Product name: Potassium	hexamethyldisi	lazide. 0.5M	inToluene
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Norway TWA 25 Poland TWA 100 mg/m3; 350 mg	n/m3-STFI			
Russia TWA 100: 50-STEL ~	-			
Sweden NGV 50; 100-TKV (skin) Switzerland MAK-W 50; 250-KZG-W United Kingdom TWA 50; 150-STEL				
United Kingdom TWA 50; 150-STEL OSHA PEL 200				
Additional information: No data				
Exposure controls				
Personal protective equipment General protective and hygienic mea	Isures			
The usual precautionary measures for h	handling chemicals should be followed.			
Remove all soiled and contaminated clo	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.				
Protection of hands:	spirator when high concentrations are present.			
Impervious gloves Check protective gloves prior to each us	se for their proper condition			
The selection of suitable gloves not only	y depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.			
<b>Eye protection:</b> Tightly sealed goggles				
Full face protection Body protection: Protective work cloth	ling			
	·			
9 Physical and chemical properties				
Information on basic physical and ch General Information	emical properties			
Appearance:	Calution			
Form: Color:	Solution Colorless			
Odor: Odor threshold:	Ether-like Not determined.			
pH-value:	Not determined.			
Change in condition				
Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined			
Sublimation temperature / start:	Not determined			
Flash point: Flammability (solid, gaseous)	7 °C (45 °F) Not determined.			
Ignition temperature:	Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure: Density at 20 °C (68 °F):	Not determined 0.877 g/cm³ (7.319 lbs/gal)			
Relative density	Not determined. Not determined.			
Vapor density Evaporation rate	Not determined.			
Solubility in / Miscibility with Water:	Reacts violently			
Partition coefficient (n-octanol/water)				
Viscosity: dynamic:	Not determined.			
kinematic: Other information	Not determined. No further relevant information available.			
10 Stability and reactivity				
Reactivity Reacts violently with water.				
Chemical stability Stable under recome Thermal decomposition / conditions t	to be avoided: Decomposition will not occur if used and stored according to specifications			
Possibility of hazardous reactions Re	Possibility of hazardous reactions Reacts violently with water			
Conditions to avoid No further relevan Incompatible materials:	t information available.			
Oxidizing agents				

Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide

## 11 Toxicological information

 Toxicological information

 Information on toxicological effects

 Acute toxicity:

 Harmful if inhaled.

 Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

 LD/LC50 values that are relevant for classification: No data

 Skin irritation or corrosion: Causes severe skin burns.

 Eye irritation or corrosion: Causes series eye damage.

 Sensitization: No sensitizing effects known.

 Germ cell mutagenicity:

 EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

 IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals.

 ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals.

 Reproductive toxicity: No effects known.

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roduct name: Potassium hexamethyldisilazide, 0.5M ir	1Toluene
injury. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity:	effects known. fects known. nt of coordination and reaction time. Chronic poisoning may result in blood, bone marrow or liver chibiting moisture sensitivity may be strongly irritating or corrosive on contact. dge 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 av Bioaccumulative potential No further relevant information availal Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow material to be released to the environment without pro Do not allow undiluted product or large quantities to reach ground Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	oper governmental permits.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings: Recommendation: Disposal must be made according to official re	
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2924
UN proper shipping name DOT IMDG, IATA	Flammable liquids, corrosive, n.o.s. (potassium hexamethyldisilazide/toluene) FLAMMABLE LIQUID, CORROSIVE, N.O.S. (potassium hexamethyldisilazide/ toluene)
Transport hazard class(es) DOT $\overleftrightarrow$ Class Label Class Label IMDG, IATA	3 Flammable liquids. 3+8 3 (FC) Flammable liquids 3+8
Class Label	3 Flammable liquids. 3+8
Packing group DOT, IMDG, IATA	
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Flammable liquids
Transport in bulk according to Annex II of MARPOL73/78 and	the IBC Code Not applicable.
Transport/Additional information: DOT Marine Pollutant (DOT): Item:	No
UN "Model Regulation":	UN2924, Flammable liquids, corrosive, n.o.s. (potassium hexamethyldisilazide/ toluene), 3 (8), II



**Signal word** Danger **Hazard statements** H224 Extremely flammable liquid and vapour. H332 Harmful if inhaled. H314 Causes severe skin burns and eye damage.

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### Product name: Potassium hexamethyldisilazide, 0.5M inToluene

Precautionary statements

 Precautionary statements

 P210
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

 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.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity and Substance is not listed. Prop 65 - Developmental toxicity for provide individuals.

Information about limitation of úse: For use only by technically qualified individuals. This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XVI of the DEACH Decudetions (conditions of the transmission of the transmis

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.

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use 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 Maritime Code for Dangerous Goods DOT: US Department of Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent UDS0: Lethal concentration, 50 percent UDS0: Lethal concentration and review Bioaccumulative ACGIH: American Chemical Abstrated and Hadministration (USA) NTP: National Toxicology Program (USA) IATA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IATA: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

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