POTASSIUM METAL FOR SYNTHESIS MSDS



CAS No: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the subst	tance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Potassium Metal
Product code	: 05321
Formula	: К
1.2. Relevant identified uses of the	e substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Laboratory chemicals, Manufacture of substances
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the s	satety data sheet
CHEMIECALL	

CHEMIECALL JI. Diklat Pemda, Dukuh Pinang No. 24 RT.001/003 Kel. Bojong Nangka Kec. Kelapa Dua Tangerang 15821 Contact: +62(21) 54210228 info@chemiecall.com www.chemiecall.com

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Substances and Mixtures H260 which, in contact with water, emit flammable gases, Category 1 Skin corrosion/irritation, H314 Category 1B

Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

F; R14/15 C; R34 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) N	o. 1272/2008 [CLP] Extra labelling to displayExtra classification(s) to display
Hazard pictograms (CLP)	
	GHS02 GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H260 - In contact with water releases flammable gases which may ignite spontaneously H314 - Causes severe skin burns and eye damage
Precautionary statements (CLP)	 P223 - Keep away from any possible contact with water, because of violent reaction and possible flash fire P231+P232 - Handle under inert gas. Protect from moisture P280 - Wear protective gloves/protective clothing/eye protection/face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P370+P378 - In case of fire: Use for extinction

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name	Product identifier	%
POTASSIUM METAL FOR SYNTHESIS		100

Full text of R- and H-phrases: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after skin contact	: Brush o ffloose particles from skin. Immerse in cool water/wrap in wet bandages. Remove/Take o ffimmediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

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First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Causes severe skin burns and eye damage.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use extinguishing media containing water.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Catches fire spontaneously if exposed to air.
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Stop release. Ventilate area.
6.2. Environmental precautions	
Do not allow water (or moist air) contact with	h this material.
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Large spills: scoop solid spill into closing containers.
6.4. Reference to other sections No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Keep away from any possible contact with water, because of violent reaction and possible flash fire.
Precautions for safe handling	: Protect from moisture. Handle under inert gas. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	: Wash thoroughly after handling. Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Store in a dry place. Protect from moisture. Store in dry protected location to prevent any moisture contact.
Incompatible materials	: Keep away from any possible contact with water, because of violent reaction and possible flash fire.

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7.3.	Specific end use(s)
No ad	ditional information available
SECT	ION 8: Exposure controls/personal protection

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical prop	perties
9.1. Information on basic physical a	
Physical state	: Solid
Colour	: silver white.
Odour	: odourless.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 64 °C
Freezing point	: No data available
Boiling point	: 760 °C
Flash point	: No data available
Auto-ignition temperature	: 3600 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: In contact with water releases flammable gases which may ignite spontaneously
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 0.86 g/cm³ : Water: Reacts violently in water
Log Pow	: No data available
Viscosity, kinematic	: No data available

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Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours. Reacts violently with water.

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

In contact with water releases flammable gases which may ignite spontaneously. Highly reactive material. Reacts violently with water.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: Not classified
exposure)	
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified

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SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradability	
No additional information available	
12.2 Disconsulative retential	
12.3. Bioaccumulative potential No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	ssment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
Additional information	: Do not allow water (or moist air) contact with this material.
SECTION 14: Transport information	
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number	
UN-No. (ADR)	: 2257
UN-No. (IMDG)	: 2257
UN-No.(IATA)	: 2257
UN-No.(ADN)	: 2257
UN-No. (RID)	: 2257
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: POTASSIUM
Proper Shipping Name (IMDG)	: POTASSIUM
Proper Shipping Name (IATA)	: POTASSIUM
Proper Shipping Name (ADN)	: POTASSIUM
Proper Shipping Name (RID)	: POTASSIUM
Transport document description (ADR)	: UN 2257 POTASSIUM, 4.3, I, (B/E)
Transport document description (IMDG)	: UN 2257 POTASSIUM, 4.3, I
Transport document description (IATA)	: UN 2257 POTASSIUM, 4.3, I
Transport document description (ADN)	: UN 2257 POTASSIUM, 4.3, I
Transport document description (RID)	: UN 2257 POTASSIUM, 4.3, I

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14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: W2
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E0
Packing instructions (ADR)	: P403, IBC04
Mixed packing provisions (ADR)	: MP2
Portable tank and bulk container instructions (ADR)	: T9
Portable tank and bulk container special provisions (ADR)	: TP7, TP33
Tank code (ADR)	: L10BN(+)
Tank special provisions (ADR)	: TU1, TE5, TT3, TM2
Vehicle for tank carriage	: AT
Transport category (ADR)	: 1
Special provisions for carriage - Packages (ADR)	: V1
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV23
Special provisions for carriage - Operation (ADR)	: S20
Hazard identification number (Kemler No.)	: X423
Orange plates	X423 2257
Tunnel restriction code (ADR)	: B/E
EAC code	: 4W
Transport by see	
- Transport by sea	· 0
Limited quantities (IMDG) Excepted quantities (IMDG)	: 0 : E0
Packing instructions (IMDG)	: P403
Packing provisions (IMDG)	: PP31
IBC packing instructions (IMDG)	: IBC04
IBC special provisions (IMDG)	: BC04
Tank instructions (IMDG)	: T9
Tank special provisions (IMDG)	: TP7, TP33
EmS-No. (Fire)	: F-G
EmS-No. (Spillage)	: S-N
Stowage category (IMDG)	: D
Stowage and handling (IMDG)	: H1
Segregation (IMDG)	: SG35, SG26
MFAG-No	: 138
- Air transport	
PCA Excepted quantities (IATA)	: E0
PCA Limited quantities (IATA)	: Forbidden

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PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: Forbidden
PCA max net quantity (IATA)	: Forbidden
CAO packing instructions (IATA)	: 487
CAO max net quantity (IATA)	: 15kg
Special provision (IATA)	: A1
ERG code (IATA)	: 4W
- Inland waterway transport	
Classification code (ADN)	: W2
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Provisions for handling and stowage of the cargo (ADN)	: HA08
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: W2
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P403, IBC04
Mixed packing provisions (RID)	: MP2
Portable tank and bulk container instructions (RID)	: T9
Portable tank and bulk container special provisions (RID)	: TP7, TP33
Tank codes for RID tanks (RID)	: L10BN(+)
Special provisions for RID tanks (RID)	: TU1, TE5, TT3, TM2
Transport category (RID)	: 1
Special provisions for carriage – Packages (RID)	: W1
Special provisions for carriage – Loading and unloading (RID)	: CW23
Hazard identification number (RID)	

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Potassium Metal is not on the REACH Candidate List Potassium Metal is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

15.2.	Chemical	safety	assessment
No add	itional inforn	nation a	available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
Water-react. 1	Substances and Mixtures which, in contact with water, emit flammable gases, Category 1	
H260	In contact with water releases flammable gases which may ignite spontaneously	
H314	Causes severe skin burns and eye damage	
R14/15	Reacts violently with water, liberating extremely flammable gases	
R34	Causes burns	
С	Corrosive	
F	Highly flammable	

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product