

Section 1. Identification**1.1 Product Identifier** CHE3048SE

Product Name POTASSIUM METAL (in paraffin liquid) 25g.

CAS Number 7440-09-7

REACH Registration No A registration number is not available as the substance or its uses are exempt, the annual tonnage does not require a registration or the registration is envisaged for a later date.

Molecular Formula $K = 39.10$ **1.2 Relevant identified uses of the substance or mixture & uses advised against**

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier SLS Select EducationWilford Industrial Estate
Ruddington Lane
Wilford
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NG11 7EP
UNITED KINGDOM

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(Have this document to hand)**Section 2. Hazards Identification****2.1 Classification of the substance or mixture****Classification according to regulation 1272/2008/EC**

Contact with water > flam gas, category 1

Skin corrosion/irritation, category 1B

Serious eye damage/irritation, category 1

H260: In contact with water releases flammable gases which may ignite spontaneously.

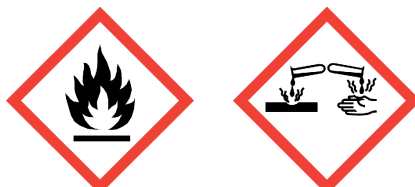
H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

2.2 Label elements**Labelling according to regulation 1272/2008/EC**

Signal word Danger

Hazard Pictograms



| | |
|--------------------------|--|
| Hazard Statements | In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and eye damage. |
| Precautionary Statements | Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction. |

Section 3. Composition

3.1 Substances

| Component | CAS No. | EEC No. | REACH No. | Conc w/w | CLP Classification (1272/2008/CE) |
|-----------|-----------|-----------|-----------|----------|---|
| Potassium | 7440-09-7 | 231-132-9 | | >99.9% | Water-react. 1, Skin Corr. 1B, Eye Dam. 1 |

Section 4. First Aid

4.1 Description of first aid measures

| | |
|--------------------------------------|--|
| Eyes | Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Skin | Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Inhalation | Remove from exposure. Keep warm and at rest. If conscious place in a sitting position. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION. |
| Ingestion | If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

5.1 Extinguishing media

| | |
|---------------------|--|
| Extinguishing Media | Dry graphite, soda ash, powdered sodium chloride or appropriate metal fire extinguishing powder. |
| Unsuitable Media | Do not allow water to come into direct contact with material. |

5.2 Special hazards arising from the substance or mixture

| | |
|---------|---|
| Hazards | May evolve toxic fumes if involved in a fire. |
|---------|---|

5.3 Advice for firefighters

| | |
|-------------------------|--|
| Advice for firefighters | Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus. |
|-------------------------|--|

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

| | |
|---------------------|---|
| Personal Protection | Use approved personal protective equipment. Ensure no contact with water, acids or other aqueous solutions is possible. Evacuate area immediately. Do not allow other people to enter area. |
|---------------------|---|

6.2 Environmental precautions

| | |
|---------------|--|
| Environmental | Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
|---------------|--|

6.3 Methods and material for containment and cleaning up

| | |
|----------------|--|
| Major Spillage | Shovel/sweep up into container for removal |
| Minor Spillage | Shovel/sweep up into container for removal |

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with water, acids or other aqueous solutions.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

| Component | CAS No | Concentration | Workplace Exposure Limits | |
|-----------|-----------|---------------|---------------------------|-------------------------|
| | | | Long Term (8hr TWA) | Short Term 15min period |
| Potassium | 7440-09-7 | >99.9% | - | - |

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

| | |
|------------------------|---|
| Respiratory Protection | Presents no significant inhalation health hazard. |
| Hand Protection | Wear gloves. |
| Eye Protection | Use tightly fitting chemical splash proof glasses or goggles. |
| Skin Protection | Avoid contact with skin. |
| Special Hazards | No special precautions required. |

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|-----------------------|---|
| Appearance | Soft silvery-white metal sticks, tarnishing readily on exposure to air. |
| Odour | No specific odour. |
| pH | Not applicable |
| Boiling Point | 759 °C |
| Melting Point | 63.5 °C |
| Flash Point | Not applicable |
| Upper Flammable Limit | Not applicable |
| Lower Flammable Limit | Not applicable |
| Auto Ignition | Not applicable |
| Explosive Properties | No. |
| Oxidising Properties | No. |
| Vapour Pressure | Not applicable |
| Relative Density | 0.8600 |
| Water Solubility | Reacts violently with water evolving a flammable gas which may explode or catch fire. |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

| | | |
|-------------|------------------------------------|---|
| 10.1 | Reactivity | No data available. |
| 10.2 | Chemical Stability | Stable under normal conditions but decomposes violently in contact with water. |
| 10.3 | Possibility of hazardous reactions | No data available. |
| 10.4 | Conditions to Avoid | Avoid contact with water or water vapour. |
| 10.5 | Incompatible Materials | Large lumps or small hot particles, react explosively with water, ice and aqueous mineral acids. Halogenated alkane solvents eg, carbon tetrachloride, dichloromethane, tetrachloroethane etc. May ignite in concentrated nitric acid, diethyl ether and tetrafluoropropanol. Contact with water evolves hydrogen which may ignite if water is above 40C. Inter halogen compounds eg bromide tri and pentafluoride, iodine penta and heptafluorides etc. Chloroform and methanol. |
| 10.6 | Hazardous Decomposition Products | Decomposes to emit highly irritant fumes. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

| | |
|----------------------|---|
| Eyes | Can cause severe burns or blindness on contact with the eyes and fumes from burning material are highly irritating. |
| Skin | Direct contact with moisture on the skin causes severe thermal and caustic burns. |
| LD50 Skin | Not available |
| Ingestion | Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. |
| LD50 Oral | Not available |
| Inhalation | Fumes from burning material are highly irritating to the upper respiratory tract. |
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | No information is available. |
| Mutagenicity | No information is available. |
| Reproductive Effects | No information is available. |

Section 12. Ecological

| | | |
|-------------|----------------------------------|--------------------------|
| 12.1 | Toxicity | None unusual. |
| | LC50 Algal | Not available |
| | LC50 Crustacea | Not available |
| | LC50 Fish | Not available |
| 12.2 | Persistence and degradability | No data available. |
| 12.3 | Bioaccumulative potential | No data available. |
| 12.4 | Mobility in soil | No data available. |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required. |
| 12.6 | Other adverse effects | None known at present. |

Section 13. Disposal Considerations

13.1 Waste treatment methods

| | |
|------------------------|---|
| Disposal Methods | Wearing full safety equipment cover material with soda ash and slowly add to butan-1-ol in a large container. Allow to stand for 24 hours then wash to drain with copious amounts of water. |
| Contaminated Packaging | Use a licensed waste disposer. |

Section 14. Transport Information

| | |
|--|----------------------------------|
| 14.1 UN Number | 2257 |
| 14.2 Proper Shipping Name | Potassium |
| 14.3 Transport classes | |
| UN classification | 4.3 |
| Subsidiary hazard(s) | None |
| Transport category | 1 |
| ADR Hazard ID | X423 |
| Tunnel Restriction Code | B/E |
| 14.4 Packing Group | I |
| 14.5 Environment hazards | See section 12. |
| 14.6 Special precautions for user | No special precautions required. |
| 14.7 Transport in bulk | Not transported in bulk. |



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for substance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Contact with water > flam gas, category 1; Skin corrosion/irritation, category 1B; Serious eye damage/irritation, category 1

Signal word Danger

Hazard Pictograms



Hazard Statements H260, H314+H318
In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and eye damage.

Hazard Statements (Packs of 100ml/g or less) H260, H314
In contact with water releases flammable gases which may ignite spontaneously. Causes severe skin burns and eye damage.

Precautionary Statements P223, P231+P232, P280, P335+P334, P378
Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Protect from moisture. Wear protective gloves / protective clothing / eye protection. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Use dry powder for extinction.

Precautionary Statements (Packs of 100ml/g or less) P280, P231+P232
Wear protective gloves / protective clothing / eye protection. Handle under inert gas. Protect from moisture.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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