



Suite 450  
One North Shore Center  
12 Federal Street  
Pittsburgh, PA 15212

## Safety Data Sheet

# KR-126GML

### 1. IDENTIFICATION

<b>Product name</b>	KR-126GML
<b>Description</b>	Cooling water treatment
<b>Product class</b>	Water treatment
<b>Supplier address</b>	Suite 450 One North Shore Center 12 Federal Street Pittsburgh, PA 16212
<b>Telephone numbers</b>	
<u>Company Phone Number</u>	(412) 321-9800
<u>Emergency Telephone</u>	CHEMTREC 1-800-424-9300

### 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b>	Skin corrosion/irritation Category 1 Serious eye damage/eye irritation Category 1
<b>Signal word</b>	Danger
<b>Hazard statements</b>	Causes severe skin burns and eye damage. Causes serious eye damage.
<b>Pictograms of related hazards</b>	



#### Precautionary statements

##### Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.

#### Storage

Store locked up.

#### Disposal

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT(S)	CAS Number	Weight %
1H-benzotriazole, 4(or 5)-methyl-, sodium salt	64665-57-2	1 - 5
Sodium molybdate	10102-40-6	1 - 5
Tripotassium phosphate	7778-53-2	1 - 5
Potassium hydroxide	1310-58-3	0.01 - 0.1
Other components below reportable levels		80 - 100

### 4. FIRST-AID MEASURES

#### **Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

#### **Skin contact**

Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

#### **Ingestion**

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

#### **Inhalation**

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

#### **Most important symptoms/effects, acute and delayed**

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

#### **Indication of immediate medical attention and special treatment needed**

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information**

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

<b>5. FIRE-FIGHTING MEASURES</b>
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**Suitable extinguishing media**

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use water jet as an extinguisher, as this will spread the fire.

**Protective equipment and precautions for firefighters**

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/ instructions**

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

**Specific hazards**

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards noted. The product itself does not burn.

**Hazardous combustion products**

During fire, gases hazardous to health may be formed

**General information**

No unusual fire or explosion hazards noted.

<b>6. ACCIDENTAL RELEASE MEASURES</b>
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**Personal precautions, protective equipment and emergency procedures**

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up:**

This product is miscible in water.

**Large Spills:** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains. Following product recovery, flush area with water.

**Small Spills:** Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination

**Environmental precautions** Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

## 7. HANDLING AND STORAGE

**Advice on safe handling** Provide adequate ventilation. Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

**Storage conditions** Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV
Sodium molybdate (CAS 10102-40-6)	5 mg/m <sup>3</sup>	TWA 0.5 mg/m <sup>3</sup> *
Potassium hydroxide (CAS 1310-58-3)		Ceiling 2 mg/m <sup>3</sup>

\*Respirable fraction.

**ENGINEERING CONTROLS:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Eye/face protection** Wear safety glasses with side shields (or goggles) and a face shield.

**Skin protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General hygiene considerations** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>pH</b>	11.5- 12.4
<b>Appearance</b>	Clear yellow liquid
<b>Odor</b>	Characteristic
<b>Odor Threshold</b>	No information available
<b>Melting/freezing point</b>	<40 °F (< 4.4 °C) estimated
<b>Initial boiling point/boiling range</b>	>212 °F (> 100 °C) estimated
<b>Flash point</b>	None
<b>Evaporation rate</b>	No information available
<b>Flammability (solid, gas)</b>	Combustible II estimated
<b>Upper/lower flammability or explosive limits</b>	No information available
<b>Vapor pressure</b>	< 1.0 mm Hg estimated
<b>Vapor density</b>	No information available
<b>VOC content</b>	No information available
<b>Specific gravity</b>	1.15
<b>Solubility</b>	Complete
<b>Partition coefficient n-octanol/water</b>	No information available
<b>Auto-ignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Reacts violently with strong acids. This product may react with oxidizing agents.
<b>Chemical stability</b>	Stable under normal conditions of storage and handling.
<b>Hazardous polymerization</b>	Polymerization will not occur.
<b>Conditions to avoid</b>	Do not mix with other chemicals. Contact with incompatible materials.
<b>Incompatibilities</b>	Acids. Oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

### 11. TOXICOLOGICAL INFORMATION

**TOXICITY:** No Data Available For Product

**Information on likely routes of exposure****Inhalation**

May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

**Skin contact**

Causes severe skin burns.

**Eye contact**

Causes serious eye damage.

**Ingestion**

Causes digestive tract burns.

**Symptoms related to the physical, chemical and toxicological characteristics**

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

**Information on toxicological effects****Acute toxicity**

Not available.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation**

Causes serious eye damage

**Respiratory or skin sensitization****Respiratory sensitization**

Not a respiratory sensitizer.

**Skin sensitization**

This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity**

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity**

This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure**

Not classified.

**Specific target organ toxicity - repeated exposure**

Not classified.

**Aspiration hazard**

Not an aspiration hazard

**Chronic effects**

Prolonged inhalation may be harmful.

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

#### Product

Parameter	Result
96 hr LC <sub>50</sub> , Rainbow trout	1,099 mg/L
48 hr EC <sub>50</sub> , Daphnia magna	6,000 mg/L

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### Persistence and degradability

No data is available on the degradability of this product

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. DISPOSAL CONSIDERATIONS

### Disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

### Local disposal regulations

Dispose in accordance with all applicable regulations

### Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company

### Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

### Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

### US Department of Transportation (DOT) –

<b>UN Number</b>	UN3266
<b>Proper shipping name</b>	Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide)
<b>Transport hazard class(es)</b>	
<b>Primary hazard class/division</b>	8
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	8
<b>Packing group</b>	II
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling
<b>Special provisions</b>	IB3, T7, TP1, TP28
<b>Packaging exceptions</b>	154
<b>Packaging non bulk</b>	203
<b>Packaging bulk</b>	241
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not regulated as dangerous goods
<b>DOT Label</b>	



## 15. REGULATORY INFORMATION

<b>U.S. REGULATIONS</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.	
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	Potassium hydroxide (CAS 1310-58-3)	Listed
<b>SARA 304 Emergency release notification</b>		Not regulated
<b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>		Not listed.



**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** Not listed

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)** Not regulated

**Chemical name**                      **CAS number**                      **% by wt.**

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations****US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Potassium hydroxide (CAS 1310-58-3)

**US. Massachusetts RTK - Substance List**

Potassium hydroxide (CAS 1310-58-3)

**US. New Jersey Worker and Community Right-to-Know Act**

Potassium hydroxide (CAS 1310-58-3)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Potassium hydroxide (CAS 1310-58-3)

**US. Rhode Island RTK**

Potassium hydroxide (CAS 1310-58-3)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No

Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s). A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

#### 16. OTHER INFORMATION

**SDS Issue Date** February 17, 2016

**Revision Date** Version 1

*The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.*