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Keeper Reagent #1

SECTION 1: Identification of the substance/mixture and of the supplier

Product name:

Keeper Reagent #1

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number:

Recommended uses of the product and restrictions on use:

Manufactured for:

Bio-Cide International Inc 2650 Venture Drive, Norman, OK 73069 (405) 329-5556

Emergency telephone number:

Bio-Cide International Inc Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazards identification

Classification of the substance or mixture:



Irritant

Skin Irritation, Category 2. Eye Irritation, Category 2.

Signal word: Warning

Hazard statements:

Causes serious eye irritation. Causes skin irritation.

Precautionary statements:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Wash skin thoroughly after handling.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with soap and water.

Specific treatment (see supplemental first aid instructions on this label).

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If eye irritation persists get medical advice/attention.

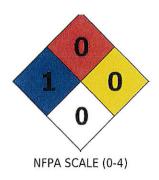
Other Non-GHS Classification:

WHMIS

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HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:			
CAS 7681-11-0	Potassium lodide	10 %	
CAS 7732-18-5	water, Purified	89.785 %	
CAS 1310-58-3	Potassium Hydroxide	0.1 %	
CAS 144-55-8	Sodium Bicarbonate	0.05 %	
CAS 497-19-8	Sodium Carbonate,Anhydrous	0.065 %	
and the second plane was provided to the second to the sec		Percentages are by weight	

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists. If breathing difficult, give oxygen.

After skin contact:

Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation persists or if concerned.

After eye contact:

Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Headache, Shortness of breath,

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5: Firefighting measures

Extinguishing media

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Suitable extinguishing agents:

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors. Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment:

Use NIOSH-approved respiratory protection/breathing apparatus.

Additional information (precautions):

Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Use respiratory protective device against the effects of fumes/dust/aerosol. Keep unprotected persons away. Ensure adequate ventilation.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13. Small quantities may be flushed to drains with plenty of water.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:

Wash hands after handling. Follow good hygiene procedures when handling chemical materials. Use only in well ventilated areas. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers. Keep container tightly sealed. Protect from freezing and physical damage.

SECTION 8: Exposure controls/personal protection





Control Parameters:

7681-11-0, Potassium Iodide, ACS, ACGIH NIOSH 0.01 mg/m3.

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Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or dusts (total/respirable) below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Use under a fume

hood.

Respiratory protection:Use suitable respiratory protective device when high concentrations are

present. For spills, respiratory protection may be advisable. Normal

ventilation is adequate.

Protection of skin: The glove material has to be impermeable and resistant to the product/

the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling

chemicals. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes

and skin.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear, colorless liquid	Explosion limit lower: Explosion limit upper:	Not determined Not determined	
Odor:	Odorless	Vapor pressure:	Not Determined	
Odor threshold:	Not determined	Vapor density:	Not determined	
pH-value:	Not Determined	Relative density:	Approx 1.07-1.36	
Melting/Freezing point:	Approx 0°C	Solubilities:	Soluble in water.	
Boiling point/Boiling range:	Approx 100°C	Partition coefficient (noctanol/water):	Not determined	
Flash point (closed cup):	Not Determined	Auto/Self-ignition temperature:	Not determined	
Evaporation rate:	Not determined	Decomposition temperature:	Not determined	
Flammability (solid,gaseous):	Not determined	Viscosity:	a. Kinematic: Not determined b. Dynamic: Not determined	
Density: Not determined				

SECTION 10: Stability and reactivity

Reactivity:

Nonreactive under normal conditions.

Chemical stability:

No decomposition if used and stored according to specifications.

Possible hazardous reactions:

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None under normal processing.

Conditions to avoid:

exposure to light. Incompatible Materials.

Incompatible materials:

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products:

Hydrogen iodide. Iodine gas. May include oxides of iodine.

SECTION 11: Toxicological information

Acute Toxicity:				
Oral:	POTASSIUM IODIDE (7681-11-0)	LD50 Rat: 285 mg/kg		
Chronic Toxicity: No additional information.				
Corrosion Irritation:				
Dermal:	7681-11-0	Rabbit: causes irritation		
Ocular:	7681-11-0	Rabbit: causes irritation		
Sensitization:		No additional information.		
Single Target Organ (STOT):		No additional information.		
Numerical Measures:		No additional information.		
Carcinogenicity:		No additional information.		
Mutagenicity:		No additional information.		
Reproductive Toxicity:		No additional information.		

SECTION 12: Ecological information

Ecotoxicity:

Crustacea LC50 Zebra mussel (Dreissena polymorpha) 220 - 313 mg/l, 24 hours: 7681-11-0

Fish LC50 - Oncorhynchus mykiss (rainbow trout) - 2,190 mg/l - 96 h: 7681-11-0

Persistence and degradability: None

Bioaccumulative potential:

Not Bioaccumulative.

Mobility in soil: None

Other adverse effects: None

SECTION 13: Disposal considerations

Waste disposal recommendations:

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Product/containers must not be disposed together with household garbage. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product. Small amounts may be flushed with water to sewer. Larger volumes must be sent to approved plant for destruction.

SECTION 14: Transport information

UN-Number:

Not Regulated.

UN proper shipping name:

Not Regulated.

Transport hazard class(es): None
Packing group: Not Regulated
Environmental hazard: None
Transport in bulk: Not Applicable
Special precautions for user: None

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

None of the ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

according to 29CFR1910/1200 and GHS Rev. 3

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None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients are listed.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases: None

Abbreviations and Acronyms:

IMDGInternational Maritime Code for Dangerous Goods.

PNECPredicted No-Effect Concentration (REACH).

CFRCode of Federal Regulations (USA).

SARASuperfund Amendments and Reauthorization Act (USA).

RCRAResource Conservation and Recovery Act (USA).

TSCAToxic Substances Control Act (USA).

NPRINational Pollutant Release Inventory (Canada).

DOTUS Department of Transportation.

IATAInternational Air Transport Association.

GHSGlobally Harmonized System of Classification and Labelling of Chemicals.

ACGIHAmerican Conference of Governmental Industrial Hygienists.

CASChemical Abstracts Service (division of the American Chemical Society).

NFPANational Fire Protection Association (USA).

HMISHazardous Materials Identification System (USA).

WHMISWorkplace Hazardous Materials Information System (Canada).

DNELDerived No-Effect Level (REACH).

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