

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: November 08, 2024

# Product identifier Trade name: KEEPER Reagent #4 · Recommended use and restriction on use · Recommended use: Laboratory chemicals · Restrictions on use: No relevant information available. • Details of the supplier of the Safety Data Sheet · Manufacturer/Supplier: Kemin Industries, Inc 2650 Venture Drive Norman, OK 73069 (405) 329-5556 • Emergency telephone number: Chemtrec for transportation emergencies in the United States, Canada, Puerto Rico, and Virgin Islands · 1-800-429-9300 All other areas 1-703-527-3887 American Assoc of Poison Control Ctr 1-800-222-1222 · Chemtrec contract number: 2749

# 2 Hazard(s) identification

# · Classification of the substance or mixture

Repr. 1B H360 May damage fertility or the unborn child. Route of exposure: Oral.

## <sup>•</sup> Label elements

**1** Identification

## <sup>·</sup> GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS08

- Signal word: Danger
- Hazard statements:

H360 May damage fertility or the unborn child. Route of exposure: Oral.

## Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves and eye protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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• Other hazards There are no other hazards not otherwise classified that have been identified.

# 3 Composition/information on ingredients

#### • Chemical characterization: Mixtures

# · Components:

components.					
1303-96-4	Disodium tetraborate, decahydrate	& Repr. 1B, H360 Eye Irrit. 2A, H319	0.1-1%		
10102-17-7	Sodium Thiosulfate, Pentahydrate		0.1-5%		
7732-18-5	Water		>94%		

## • Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

## 4 First-aid measures

## <sup>•</sup> Description of first aid measures

<sup>•</sup> After inhalation:

# Supply fresh air.

Seek medical treatment in case of complaints.

#### After skin contact:

Wash with soap and water.

If skin irritation is experienced, consult a doctor.

#### After eye contact:

Remove contact lenses if worn.

Rinse opened eye for 15 minutes under running water. If symptoms persist, consult a doctor.

#### After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

## Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

**Danger:** May damage fertility or the unborn child. Route of exposure: Oral.

Indication of any immediate medical attention and special treatment needed:

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

# **5** Fire-fighting measures

## • Extinguishing media

• Suitable extinguishing agents: Use fire fighting measures that suit the environment.

- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

## <sup>•</sup> Advice for firefighters

#### · Protective equipment:

Wear self-contained respiratory protective device.

## Wear fully protective suit.

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# 6 Accidental release measures

## • Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

# <sup>•</sup> Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## Methods and material for containment and cleaning up

Wipe up small spills with paper towel and discard.

For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. Send for recovery or disposal in suitable receptacles.

## **Reference to other sections**

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

<sup>•</sup> Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Information about protection against explosions and fires: No special measures required.

## Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidizing agents.

\* Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

# 8 Exposure controls/personal protection

## <sup>·</sup> Control parameters

## Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

# 1303-96-4 Disodium tetraborate, decahydrate

REL (USA)	Long-term value: 5 mg/m <sup>3</sup>
TLV (USA)	Short-term value: 6* mg/m³ Long-term value: 2* mg/m³ *as inhalable fraction
EL (Canada)	Short-term value: 6 mg/m³ Long-term value: 2 mg/m³

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	PER Reagent #4
	Short-term value: 6 mg/m³
	Long-term value: 2 mg/m³
	inorganic, inhalable
	Short-term value: 6* mg/m³
	Long-term value: 2* mg/m³ A4, *fracción inhalable
F	
· Exposure conti	rols
General protectiv	ive and hygienic measures:
	itionary measures for handling chemicals should be followed.
	foodstuffs, beverages and feed.
	bre breaks and at the end of work.
	ntrols: Provide adequate ventilation. ment: Not required under normal conditions of use.
· Protection of har	
Protective	ve aloves
FIOLECLIV	e gioves
<ul> <li>Material of glove: Nitrile rubber, NBF Butyl rubber, BR Neoprene gloves Natural rubber, NF Sensibilization by</li> <li>Eye protection: Safety gla</li> </ul>	R R / the components in the glove materials is possible.
Follow relevant na Body protection: Limitation and No relevant inform	ational guidelines concerning the use of protective eyewear. Protective work clothing <b>supervision of exposure into the environment</b> mation available. <b>Tent measures</b> No relevant information available.
Follow relevant na Body protection: Limitation and No relevant inform Risk managem	a: Protective work clothing supervision of exposure into the environment mation available.
Follow relevant na Body protection: Limitation and No relevant inform Risk managem	: Protective work clothing supervision of exposure into the environment mation available. nent measures No relevant information available.
Follow relevant na Body protection: Limitation and No relevant inform Risk managem	: Protective work clothing supervision of exposure into the environment mation available. nent measures No relevant information available. chemical properties
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on	: Protective work clothing supervision of exposure into the environment mation available. nent measures No relevant information available. chemical properties
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance:	Protective work clothing     supervision of exposure into the environment mation available.     nent measures No relevant information available.     chemical properties     basic physical and chemical properties     Liquid     Colorless
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance: Form: Color: Odor:	Protective work clothing     supervision of exposure into the environment mation available.     nent measures No relevant information available.     chemical properties     basic physical and chemical properties     Liquid     Colorless     Odorless
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance: Form: Color:	Protective work clothing     supervision of exposure into the environment mation available.     nent measures No relevant information available.     chemical properties     basic physical and chemical properties     Liquid     Colorless     Odorless
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance: Form: Color: Odor: Odor threshold:	Protective work clothing     supervision of exposure into the environment mation available.     nent measures No relevant information available.     chemical properties     basic physical and chemical properties     Liquid     Colorless     Odorless
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance: Form: Color: Odor: Odor threshold: pH-value:	: Protective work clothing supervision of exposure into the environment mation available. nent measures No relevant information available. chemical properties basic physical and chemical properties Liquid Colorless Odorless Not determined. Not determined.
Follow relevant na Body protection: Limitation and No relevant inform Risk managem 9 Physical and Information on Appearance: Form: Color: Odor: Odor threshold:	Protective work clothing Supervision of exposure into the environment mation available.  The measures No relevant information available.  Chemical properties  Chemical properties  Liquid Colorless Odorless Not determined.  Not determined.  Not determined.  elting range:  Co °C (<32 °F)

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de name: KEEPER Reagent #4	
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Non-oxidizing.
Vapor pressure:	Not determined.
Density:	
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible.
Partition coefficient (n-octanol/wa	ter): Not determined.
Viscosity	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No relevant information available.

# 10 Stability and reactivity

· Reactivity: No relevant information available.

• Chemical stability: Stable under normal temperatures and pressures.

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

# <sup>•</sup> Possibility of hazardous reactions

Reacts with oxidizing agents.

Toxic fumes may be released if heated above the decomposition point.

- Conditions to avoid No relevant information available.
- <sup>·</sup> Incompatible materials Oxidizing agents.
- <sup>•</sup> Hazardous decomposition products

Under fire conditions only: Toxic metal oxide smoke

Sulfur oxides (SOx)

# 11 Toxicological information

<sup>·</sup> Information on toxicological effects

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	cute toxicity: Based on available data, the classification criteria are not met.
L	D/LC50 values that are relevant for classification:
1	303-96-4 Disodium tetraborate, decahydrate
С	0ral LD50 2660 mg/kg (rat)
Ρ	rimary irritant effect:
	In the skin: Based on available data, the classification criteria are not met.
	In the eye: Based on available data, the classification criteria are not met.
	ensitization: Based on available data, the classification criteria are not met.
I	ARC (International Agency for Research on Cancer):
Ν	lone of the ingredients are listed.
Ν	ITP (National Toxicology Program):
Ν	lone of the ingredients are listed.
0	SHA-Ca (Occupational Safety & Health Administration):
Ν	lone of the ingredients are listed.
	robable route(s) of exposure:
	ngestion.
	halation.
	ye contact.
_	kin contact. Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.
	<b>Repeated dose toxicity:</b> May damage fertility or the unborn child. Route of exposure: Oral.
	Germ cell mutagenicity: Based on available data, the classification criteria are not met.
	carcinogenicity: Based on available data, the classification criteria are not met.
	Reproductive toxicity: May damage fertility or the unborn child. Route of exposure: Oral.
	<b>TOT-single exposure:</b> Based on available data, the classification criteria are not met.
	<b>TOT-repeated exposure:</b> Based on available data, the classification criteria are not met.
	spiration hazard: Based on available data, the classification criteria are not met.

# **12 Ecological information**

<sup>·</sup> Toxicity

<sup>.</sup> Aquatic toxicity No relevant information available.

• Persistence and degradability No relevant information available.

Bioaccumulative potential: No relevant information available.

<sup>•</sup> **Mobility in soil:** No relevant information available.

# Additional ecological information

<sup>·</sup> General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• Other adverse effects No relevant information available.

# 13 Disposal considerations

· Waste treatment methods

<sup>·</sup> Recommendation:

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

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The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

## <sup>·</sup> Uncleaned packagings

• **Recommendation:** Disposal must be made according to official regulations.

Transport information		
UN-Number	Notes and to 1	
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	

# 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
United States (USA)
SARA
Section 302 (extremely hazardous substances):
None of the ingredients are listed.
Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

• TSCA (Toxic Substances Control Act)

All ingredients are listed or exempt.

## · Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

## · Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

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• Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

• EPA (Environmental Protection Agency):

1303-96-4 Disodium tetraborate, decahydrate

I (oral)

<sup>•</sup> IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

Canadian Domestic Substances List (DSL):

All ingredients listed on DSL or NDSL.

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Repr. 1B: Reproductive toxicity - Category 1B Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.