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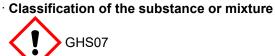
### **1** Identification

- Product identifier
- · Trade name: Peroxynitrite
- · Article number: 81565
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet

• **Manufacturer/Supplier:** Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

 Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970

# 2 Hazard(s) identification



Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

· Label elements

· GHS label elements

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



· Signal word Warning

- · Hazard statements
- H315 Causes skin irritation.

H319 Causes serious eye irritation.

(Contd. on page 2)

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### Trade name: Peroxynitrite

• Precautionary statements         P264       Wash thoroughly after handling.         P280       Wear protective gloves / eye protection / face protection.         P302+P352       If on skin: Wash with plenty of water.         P321       Specific treatment (see on this label).         P305+P351+P338       If eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P332+P313       If skin irritation occurs: Get medical advice/attention.         P362+P364       Take off contaminated clothing and wash it before reuse.         P37+P313       If eye irritation persists: Get medical advice/attention.         • Classification system:       • NFPA ratings (scale 0 - 4)         ● 0       Fire = 0         Reactivity = 0       • Health = 2         • HMIS-ratings (scale 0 - 4)       ● 1 = 0         ● 1 = 0       Fire = 0         Reactivity = 0       • Reactivity = 0         • Other hazards       • Reactivity = 0         • Other hazerds       • Composition/information			(Contd. from page 1)
P280       Wear protective gloves / eye protection / face protection.         P302+P352       If on skin: Wash with plenty of water.         P31       Specific treatment (see on this label).         P305+P351+P338       If news: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P332+P313       If skin irritation occurs: Get medical advice/attention.         P362+P364       Take off contaminated clothing and wash it before reuse.         P377+P313       If eye irritation persists: Get medical advice/attention.         • Classification system:       • NFPA ratings (scale 0 - 4)         Image: Pine = 0       Reactivity = 0         • HMIS-ratings (scale 0 - 4)       Fire = 0         Reactivity = 0       • Reactivity = 0         • Other hazards       Reactivity = 0         • Other hazards       Reactivity = 0         • Other hazards       • Other supplicable.         • VPVB: Not applicable.       • VPVB: Not applicable.         • VPVB: Not applicable.       1-1.5%         • CAS: 1310-73-2       Sodium hydroxide         RTECS: WB4900000       1-1.5%         • Other ingredients       GAS: 7732-18-5         • Other ingredients       90-99.9%			
P302+P352       If on skin: Wash with plenty of water.         P321       Specific treatment (see on this label).         P305+P351+P333       If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P332+P313       If skin irritation occurs: Get medical advice/attention.         P362+P364       Take off contaminated clothing and wash it before reuse.         P337+P313       If eye irritation persists: Get medical advice/attention.         * Classification system:       • NFPA ratings (scale 0 - 4)         • MPA ratings (scale 0 - 4)       • Reactivity = 0         • HMIS-ratings (scale 0 - 4)       • Reactivity = 0         • Pint:       • Pinte = 0         • Reactivity = 0       • Reactivity = 0         • Other hazards       • Results of PBT and vPvB assessment         • PBT: Not applicable.       • VPVB: Not applicable.         • vPvB: Not applicable.       • VPvB: Not applicable.         • VPVB: Not applicable.       1-1.5%         • Chemical characterization: Mixtures       Description: Mixture of the substances listed below with nonhazardous additions.         • Dangerous components:       CAS: 1310-73-2       Sodium hydroxide       1-1.5%         • Other ingredients       CAS: 1310-73-2       Sodium hydroxide       90-99.9%       RTECS: ZC0110000			
P321       Specific treatment (see on this label).         P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.         P332+P313       If skin irritation occurs: Get medical advice/attention.         P324+P364       Take off contaminated clothing and wash it before reuse.         P337+P313       If eye irritation persists: Get medical advice/attention.         • Classification system:       • If eye irritation persists: Get medical advice/attention.         • Classification system:       • NFPA ratings (scale 0 - 4)         • MEALTH       2         • Pire = 0         Reactivity = 0         • HMIS-ratings (scale 0 - 4)         • HEALTH       2         • Pire = 0         Reactivity = 0         • Other hazards         • Results of PBT and vPvB assessment         • PBT: Not applicable.         • VvB: Not applicable.         • VvB: Not applicable.         • VvB: Not applicable.         • Chemical characterization: Mixtures         • Description: Mixture of the substances listed below with nonhazardous additions.         • Dangerous components:         CAS: 1310-73-2       Sodium hydroxide       1–1.5%         • Other ingredients       90–99.9%       90–99.9% </td <td></td> <td></td> <td></td>			
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HEALTH       2       Health = 2         FIRE       0       Fire = 0         REACTIVITY       Reactivity = 0         • Other hazards       • Reactivity = 0         • VPVB: Not applicable.       • VPVB: Not applicable.         • VPVB: Not applicable.       • VPVB: Not applicable.         • Other ingredients       • Chemical characterization: Mixtures         • Description: Mixture of the substances listed below with nonhazardous additions.       • Dangerous components:         • CAS: 1310-73-2       Sodium hydroxide       1–1.5%         • Other ingredients       • Other ingredients       90–99.9%         • CAS: 7732-18-5       Water       90–99.9%	Fire =	0	
Fire = 0       Fire = 0         Reactivity = 0       Reactivity = 0         • Other hazards       Results of PBT and vPvB assessment         • PBT: Not applicable.       • vPvB: Not applicable.         • vPvB: Not applicable.       • VPvB: Not applicable.         • Other ingredients       • Chemical characterization: Mixtures         • Description: Mixture of the substances listed below with nonhazardous additions.       • Dangerous components:         • CAS: 1310-73-2       Sodium hydroxide       1–1.5%         • Other ingredients       • Other ingredients       90–99.9%         • Other ingredients       90–99.9%	· HMIS-ratings (sca	le 0 - 4)	
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• Description: Mixture of the substances listed below with nonhazardous additions.         • Dangerous components:         CAS: 1310-73-2       Sodium hydroxide         RTECS: WB4900000       1–1.5%         • Other ingredients       1–1.5%         CAS: 7732-18-5       Water         90–99.9%       90–99.9%	3 Composition/ir	formation on ingredients	
CAS: 1310-73-2 RTECS: WB4900000       Sodium hydroxide       1–1.5%         Other ingredients       CAS: 7732-18-5 RTECS: ZC0110000       Water       90–99.9%			ns.
RTECS: WB4900000       Other ingredients         CAS: 7732-18-5       Water         RTECS: ZC0110000       90–99.9%	<ul> <li>Dangerous compo</li> </ul>	onents:	
Other ingredients           CAS: 7732-18-5         Water         90–99.9%           RTECS: ZC0110000         90         90	CAS: 1310-73-2	Sodium hydroxide	1–1.5%
CAS: 7732-18-5 Water 90–99.9% RTECS: ZC0110000	RTECS: WB49000		
RTECS: ZC0110000	_		
			90–99.9%
CAS: 14042-01-4 Peroxynitrite 0.1–10%	RTECS: ZC011000	0	
	CAS: 14042-01-4	Peroxynitrite	0.1–10%

# **4 First-aid measures**

· Description of first aid measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

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

• After swallowing: If symptoms persist consult doctor.

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- Information for doctor:
   Most important symptoms and effects, both acute and delayed
   May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.
   No further relevant information available.
   Indication of any immediate medical attention and special treatment needed
  - No further relevant information available.

## **5 Fire-fighting measures**

- · Extinguishing media
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions:
  Dilute with plenty of water.
  Do not allow to enter sewers/ surface or ground water.
  Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

• 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.

#### Protective Action Criteria for Chemicals

· PAC-1:		
1310-73-2	Sodium hydroxide	0.5 mg/m³
· PAC-2:		
1310-73-2	Sodium hydroxide	5 mg/m <sup>3</sup>
· PAC-3:		
1310-73-2	Sodium hydroxide	50 mg/m³

# 7 Handling and storage

#### · Handling:

· Precautions for safe handling

No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.

Keep away from sources of ignition.

Take precautionary measures against static discharge.re.

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

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- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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

- 1310-73-2 Sodium hydroxide
- PEL Long-term value: 2 mg/m<sup>3</sup>
- REL Ceiling limit value: 2 mg/m<sup>3</sup>
- TLV Ceiling limit value: 2 mg/m<sup>3</sup>
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.
- Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

#### 9 Physical and chemical properties · Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Color: Colorless · Odor: Odorless · Structural Formula ONO2 • Na 85.0 g/mol · Molecular Weight · Odor threshold: Not determined. · Formulation A solution in 0.3 M sodium hydroxide · pH-value: Not determined. · Change in condition Melting point/Melting range: Undetermined. 100 °C (212 °F) **Boiling point/Boiling range:** · Flash point: Not applicable. · Flammability (solid, gaseous): Not applicable. · Decomposition temperature: Not determined. · Auto igniting: Product is not selfigniting. Danger of explosion: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. · Vapor pressure at 20 °C (68 °F): 23 hPa (17.3 mm Hg) Density at 20 °C (68 °F): 0.90858-1.13291 g/cm3 (7.5821-9.45413 lbs/gal) Bulk density: 909-1,133 kg/m<sup>3</sup> · Relative density Not determined. · Vapor density Not determined. · Evaporation rate Not determined. · Solubility in / Miscibility with Fully miscible. Water: · Partition coefficient (n-octanol/water): Not determined. · Viscosity: Dynamic at 20 °C (68 °F): 0.952 mPas **Kinematic:** Not determined. (Contd. on page 6)

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90–99.9 % 0.00 % 0.0 g/l / 0.00 lb/gal
1–1.5 %
No further relevant information available.

# **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

· Acut	mation on toxicolog		
		relevant for classification:	
	-73-2 Sodium hydrox		
Orai	-	1.57 mg/kg (hmn)	
	LD50	2,000 mg/kg (rat)	
		TDLO	44 mg/kg (
		LDLO	1.57 mg/kg (
	Intraperitoneal LD50 ary irritant effect:	40 mg/kg (mouse)	
· Sens · Addi	arations:	ing effects known.	n methods for
prep Irrita			
prep Irrita · <b>Carc</b>	inogenic categories		
prep Irrita · Carc · IARC	nogenic categories C (International Agen	cy for Research on Cancer)	
prep Irrita · Carc · IARC	inogenic categories	-	

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### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

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

- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number DOT, IMDG, IATA	UN1824	
UN proper shipping name		
DOT, IATA	Sodium hydroxide solution	
IMDĠ	SODIUM HYDROXIDE SOLUTION	
Transport hazard class(es) DOT		
CORROSIVE 8		
Class	8 Corrosive substances	

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Label	8
IMDG, IATA	
Class Label	8 Corrosive substances 8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler code) EMS Number: Segregation groups Stowage Category Segregation Code	Warning: Corrosive substances : 80 F-A,S-B Alkalis A SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information: DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
IMDG Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
IATA Remarks:	When sold in quantities of less than or equal to 1 ml or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimi Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled a Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

# **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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Section 313 (Specific toxic chemical listings):	(Contd. from pag
None of the ingredients is listed.	
TSCA (Toxic Substances Control Act):	
7732-18-5 Water	ACTIV
1310-73-2 Sodium hydroxide	ACTIV
Hazardous Air Pollutants	
None of the ingredients is listed.	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
TLV (Threshold Limit Value)	
None of the ingredients is listed.	
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been	carried out.

# **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 02/16/2022 / -
- Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

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Revision date 02/16/2022

### Trade name: Peroxynitrite

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A (Contd. from page 9)