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## Safety Data Sheet

acc. to OSHA HCS

Printing date 07/07/2020

Reviewed on 07/07/2020

Phone: 800-343-5319

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843-881-3964

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#### **1** Identification

- · Product identifier
- · Product name: 1.25N NaOH Distillation Fluid
- · Part number: C7115
- · Application of the substance / the mixture Reference material for laboratory use only
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Environmental Express 2345A Charleston Regional Pkwy Charleston, SC 29492 USA
- · Information department: info@envexp.com
- Emergency telephone number: For Emergencies Contact ChemTel, Inc Contract # MIS0001690 Domestic: 1-800-255-3924 International: +01-813-248-0585

#### 2 Hazard(s) identification

· Classification of the substance or mixture

GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

· Label elements

- · GHS label elements
- *The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms*



· Signal word Danger

- *Hazard-determining components of labeling: Sodium hydroxide*
- · Hazard statements
- H314 Causes severe skin burns and eye damage.
- · Precautionary statements
- P260 Do not breathe dusts or mists.
- P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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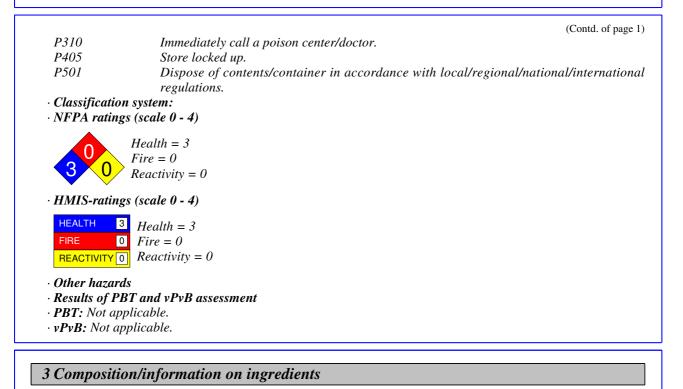
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#### Product name: 1.25N NaOH Distillation Fluid



- · Chemical characterization: Mixtures
- · Description: Aqueous solution.

#### · Dangerous components:

CAS: 1310-73-2 RTECS: WB4900000		🚸 Skin Corr. 1A, H314; 🗘 Acute Tox. 4, H302	<10%
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#### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:
- Immediately wash with water and soap and rinse thoroughly.
- Seek immediate medical advice.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Rinse mouth. Do not induce vomiting.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

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#### Product name: 1.25N NaOH Distillation Fluid

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#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- $\cdot$  Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- · Advice for firefighters

#### · Protective equipment: Mouth respiratory protective device. Wear self-contained respiratory protective device.

#### 6 Accidental release measures

Mount respiratory protecti		
	t. Keep unprotected persons away.	
Environmental precaution		
Dilute with plenty of water	:	
Do not allow to enter sewe	ers/ surface or ground water.	
Methods and material for	containment and cleaning up:	
Absorb with liquid-binding	g material (sand, diatomite, acid binders, universal binders,	sawdust).
Use neutralizing agent.		
Dispose contaminated mat	erial as waste according to item 13.	
Ensure adequate ventilatio		
Reference to other section	S	
See Section 7 for informati	ion on safe handling.	
	ion on personal protection equipment.	
See Section 13 for disposa		
Protective Action Criteria		
PAC-1:		
CAS: 1310-73-2 Sodium h	ıydroxide	0.5 mg/m <sup>3</sup>
PAC-2:		
CAS: 1310-73-2 Sodium h	nydroxide	5 mg/m <sup>3</sup>
PAC-3:		
CAS: 1310-73-2 Sodium h	nvdroxide	50 mg/m <sup>3</sup>

## 7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Store in cool, dry place in tightly closed receptacles. Prevent formation of aerosols.

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· Information about protection against explosions and fires: Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Please refer to the manufacturers certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

• Information about storage in one common storage facility: Store away from foodstuffs.

• 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:

CAS: 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.

Avoid conider with the eyes of

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

• Material of gloves PVC gloves

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# Product name: 1.25N NaOH Distillation Fluid

Neoprene gloves

- · 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.

• Eye protection:



Tightly sealed goggles

9	<b>Physical</b>	and	chemical	properties
/	1 hysicai	unu	cnenteut	properties

General Information		
Appearance:		
Form:	Fluid	
Color:	According to product specification	
Odor:	Odorless	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	0 °C (32 °F)	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
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· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Kinematic:

· Other information

Not determined. Not determined. No further relevant information available.

#### 10 Stability and reactivity

· Reactivity

Stable under normal conditions.

No further relevant information available.

- · Chemical stability Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:
- Formation of toxic gases is possible during heating or in case of fire.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat.
- · Incompatible materials: Strong oxidizing agents.
- · Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire.

#### 11 Toxicological information

- · Information on toxicological effects
- Acute toxicity:

#### · LD/LC50 values that are relevant for classification:

CAS: 1310-73-2 Sodium hydroxide

Oral LD50 2,000 mg/kg (rat) LD 50 (Intraperitoneal) 40 mg/kg (rat)

· Primary irritant effect:

• on the skin: Strong caustic effect on skin and mucous membranes.

• on the eye: Strong caustic effect.

- · Sensitization: Based on available data, the classification criteria are not met.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

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#### Product name: 1.25N NaOH Distillation Fluid

· NTP (National Toxicology Program)

None of the ingredients is listed.

#### · 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.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- · 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: Dispose in accordance with national regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

#### 14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA
- $\cdot DOT$  $\cdot ADR$

· IMDG, IATA

UN1824 Sodium hydroxide solution 1824 SODIUM HYDROXIDE SOLUTION SODIUM HYDROXIDE SOLUTION

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## Product name: 1.25N NaOH Distillation Fluid

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Transport hazard class(es)	
DOT	
CORRECTION	
*	
Class	8 Corrosive substances
Label	8
ADR, IMDG, IATA	
Class	8 Corrosive substances
Label	8
Packing group	
DOT, ADR, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Danger code (Kemler):	80
EMS Number:	F-A,S-B
Segregation groups	Alkalis
Stowage Category Segregation Code	A SG35 Stow "separated from" SGG1-acids
Transport in bulk according to Annex . MARPOL73/78 and the IBC Code	
	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities $(EQ)$	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture · Sara

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

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	Specific toxic chemical listings):
None of the ir	ngredients is listed.
• TSCA (Toxic	Substances Control Act):
All componen	ts have the value ACTIVE.
Hazardous A	ir Pollutants
None of the ir	ngredients is listed.
Proposition 6	5
· Chemicals kn	nown to cause cancer:
None of the ir	ngredients is listed.
· Chemicals kn	nown to cause reproductive toxicity for females:
None of the ir	ngredients is listed.
· Chemicals kn	nown to cause reproductive toxicity for males:
None of the ir	ngredients is listed.
· Chemicals kn	nown to cause developmental toxicity:
	igredients is listed.
· Carcinogenic	catagorias
-	nmental Protection Agency)
	ngredients is listed.
•	
	old Limit Value established by ACGIH)
•	ngredients is listed.
	National Institute for Occupational Safety and Health)
None of the ir	ngredients is listed.
• Hazard pictog	grams
FE	
GHS05	
· Signal word I	Danger
• Hazard-deter	mining components of labeling:
Sodium hydro	
· Hazard stater	
	severe skin burns and eye damage.
· Precautionar	
P260	Do not breathe dusts or mists.
r303+P301+	P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin wit water/shower.
P305+P351+	P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,
	present and easy to do. Continue rinsing.
	Immediately call a poison center/doctor.
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#### Product name: 1.25N NaOH Distillation Fluid

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P405Store locked up.P501Dispose of contents/container in accordance with local/regional/national/international<br/>regulations.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

The information in this Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, we cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. We warrant that the chemical meets the specifications set forth on the label. Environmental Express disclaims any other warranties, expressed or implied with regard to the product supplied hereunder, its merchantability or its fitness for a particular purpose. The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. Read all precautionary information.

#### · Date of preparation / last revision 07/07/2020 / -

· Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (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 ACGIH: American Conference of Governmental Industrial Hygienists 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) LC50: Lethal concentration, 50 percent 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 Acute Tox. 4: Acute toxicity - Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A · Sources Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

• Data compared to the previous version altered. All sections have been updated.