

Printing date 08/31/2023

Reviewed on 03/15/2021

Thinks and 00/01/2020	wea on 05/15/2021
1 Identification	
· Product identifier	
· Trade name: Deep Blue Lysis Buffer	
• Article number: D4041-1-30, D4041-1-48 • Application of the substance / the mixture Laboratory Reagent	
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Zymo Research Corp. 17062 Murphy Ave., Irvine, CA 92614, U.S.A., Phone: +1(949) 679-1190 or +1(888) 882-9682 sds@zymoresearch.com 	2,
 Information department: Product Safety Dept. Emergency telephone number: During normal business hours (8 am to 5 pm Pacific Standard Time): +1 (949) 679 1190 	
2 Hazard(s) identification	
· Classification of the substance or mixture	
GHS05 Corrosion Skin Corrosion 1B H314 Causes severe skin burns and eye damage.	
Eye Damage 1 H318 Causes serious eye damage.	
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonize Hazard pictograms GHS05 Signal word Danger 	d System (GHS).
 Hazard-determining components of labeling: sodium hydroxide Hazard statements Causes severe skin burns and eye damage. Precautionary statements Do not breathe dusts or mists. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/show 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 Continue rinsing. Immediately call a poison center/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulation 	d easy to do.

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≤10%

≤2.5%



· HMIS-ratings (scale 0 - 4)

HEALTH 3 Health = 3 FIRE 0 Fire = 0 REACTIVITY 0 Reactivity = 0

- Other hazards
- · Results of PBT and vPvB assessment
- *PBT*: Not applicable.

• *vPvB*: Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- Description: Mixture of the substances listed below with nonhazardous additions.

· Dangero	us compon	ents:
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CAS: 151-21-3 sodium dodecyl sulphate

CAS: 1310-73-2 sodium hydroxide

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.
- After eye contact:

Wash eyes immediately, for at least 15 minutes, with large amounts of water, holding upper and lower lids open. Remove contact lenses, if present and it is easy to do so. Get medical attention immediately.

• After swallowing:

Do not induce vomiting; immediately call for medical help.

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

- · 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.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

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• Specia	l hazards	arising fi	rom the s	ubstance	or mixtu	re	

Products of thermal decomposition of this material would include caustic vapors as well as sodium and sulfur compounds.

Advice for firefighters

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• Protective equipment:

Wear protective clothing, including self-contained breathing apparatus, for fighting fires involving this material.

6 Accidental release measures

- *Personal precautions, protective equipment and emergency procedures*Wear protective equipment. Keep unprotected persons away.
 Environmental precautions: 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).
- Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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:		
CAS: 151-21-3	sodium dodecyl sulphate	3.9 mg/m ³
CAS: 1310-73-2	sodium hydroxide	0.5 mg/m ³
· PAC-2:		
CAS: 151-21-3	sodium dodecyl sulphate	43 mg/m ³
CAS: 1310-73-2	2 sodium hydroxide 5 r	
• PAC-3:		
CAS: 151-21-3	sodium dodecyl sulphate	260 mg/m ³
CAS: 1310-73-2	sodium hydroxide	50 mg/m ³

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in cool, dry place. Store in well-ventilated location.

Information about storage in one common storage facility:

Do not store together with acids, chlorinated solvents, and reactive metals (e.g. aluminum, phosphorous, tin/tin oxides, zinc).

• Further information about storage conditions: Keep receptacle tightly sealed.

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· Specific end use(s) Laboratory reagent

8 Exposure controls/personal protection

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

· Control parameters

Work under a chemical fume hood when using this product. Ensure eyewash station and safety showers are readily accessible.

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.

At this time, the remaining constituent has no known exposure limits.

CAS: 1310-73-2 sodium hydroxide

PEL Long-term value: 2 mg/m³

- REL Ceiling limit value: 2 mg/m³
- TLV Ceiling limit value: 2 mg/m³

· 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:

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:



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

pH-value:Not determined.pH-value:Not determined.Change in condition Melting point/Boiling range:Undetermined.Boiling point/Boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gaseous):Not applicable.Decomposition temperature:Not determined.Ignition temperature:Product is not selfigniting.Danger of explosion:Product does not present an explosion hazard.Explosion limits:Image: Not ApplicableUpper:Not determined.Density:Not determined.Vapor pressure:Not determined.Vapor densityNot determined.Solubility in / Miscibility with Water:Not determined.Viscosity:Not miscible or difficult to mixPartition coefficient (n-octanol/water): Not determined.Viscosity:Not determined.Dynamic:Not determined.Kinematic:Not determined.	General Information	
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0.0 g/l / 0.00 lb/gal		0.00 %
Solids content: 2.5 %		0.0 g/l / 0.00 lb/gal
	Solids content:	2.5 %

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• Other information

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.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

CAS: 151-21-3 sodium dodecyl sulphate

Oral LD50 1,288 mg/kg (rat)

- Primary irritant effect:
- on the skin: Caustic effect on skin and mucous membranes.
- · on the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · 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.

· 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 2 (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or unneutralized. Danger to drinking water if even small quantities leak into the ground. • *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:

Dispose of contents in accordance with local/regional/national, and international recommendations.

· Uncleaned packagings:

· Recommendation:

Dispose of container in acoordance with local/regional/national and international recommendations.

UN-Number DOT, IMDG, IATA	UN1760
UN proper shipping name DOT IMDG, IATA	Corrosive liquids, n.o.s. (Sodium hydroxide) CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE)
Transport hazard class(es)	
DOT CORROSIVE 8	
Class Label	8 Corrosive substances 8
IMDG, IATA	
Class Label	8 Corrosive substances 8
Packing group DOT, IMDG, IATA	П
Environmental hazards:	Not applicable.
Special precautions for user Hazard identification number (Kemler c EMS Number: Segregation groups	Warning: Corrosive substances eode): 80 F-A,S-B (SGG18) Alkalis

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В
SW2 Clear of living quarters.
Not applicable.
On passenger aircraft/rail: 1 L
On cargo aircraft only: 30 L
1L
Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE), 8, II

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.

• Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

• TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

· 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.

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·NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
 • GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms GHS05 • Signal word Danger
· Hazard-determining components of labeling:
sodium hydroxide
· Hazard statements
Causes severe skin burns and eye damage.
· Precautionary statements
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
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.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.
16 Other information
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.
Department issuing SDS:

Zymo Research Corp. Safety Department 17062 Murphy Ave. Irvine, CA 92614 USA Phone: 1-949-679-1190 or 1-888-882-9682 • *Contact:* sds@zymoresearch.com • *Date of preparation / last revision* 08/31/2023 • *Abbreviations and acronyms:* IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation

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 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

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PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Corrosion 1B: Skin corrosion/irritation – Category 1B Eye Damage 1: Serious eye damage/eye irritation – Category 1 (Contd. of page 9)

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