SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier **6x Loading Buffer ORANGE**

Catalogue numer: **E0264-01**

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses: laboratory chemicals
Uses advised against: not specified

1.3. Details of the supplier of the safety data sheet
Producer: **EURx Sp. z o. o.**
80-297 Gdańsk,
ul. Przyrodników 3
Poland

E-mail address of the person responsible for data sheet: eurx@eurx.com.pl

1.4. Emergency telephone number 112 (Emergency telephone)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
According to Reg. 1272/2008
Product is not classified as dangerous.

Human health dangers:
None.
Environmental hazards:
None.
Physic-chemical hazards:
None.

2.2. Label elements
Pictograms:
None.
Signal Word:
None.
Hazard Statement (H):
None.
Precautionary Statement (P):
None.

EUH210 – Safety data sheet available on request.

2.3. Other hazards
The product contains no substance meet the criteria for PBT or vPvB.
The product does not contain substances included in the list of substances with endocrine disrupting properties according to the list established in accordance with Art. 59 REACH.
The product does not contain substances with endocrine disrupting properties in accordance with Commission criteria (EU) 2017/2100 or 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances
Not applicable.

3.2. Mixtures

Hazardous components:

Product identifier	Contains %	Classification CLP	
		Hazard Class and Category Code(s)	Hazard Statement Code(s)
Ethylenediaminetetraacetic acid disodium salt dihydrate CAS No.: 6381-92-6 EINECS No.: 205-358-3 Index No.:- REACH No.: 01-2119486775-20-XXXX	<4	Acute Tox. 4 STOT RE 2	H332 H373

For full text of H-statements: see SECTION 16

Components with Occupational Exposure Limits:
Glycerol (CAS: 56-81-5): <50%
SECTION 8

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact
Wash contaminated skin with soap and water, rinse thoroughly with water, in case of irritation, redness, consult your doctor.

Eye contact
Rinse with plenty water (15min). Avoid strong water jet because of the danger of damage to the cornea. Consult your doctor.

Inhalation
Move to fresh air. Consult a physician if any symptoms develop and persist.

Ingestion
Do not induce vomiting. Rinse mouth with water. Give to drink a glass of water if victim is conscious. Consult your doctor.

4.2. Most important symptoms and effects, both acute and delayed

Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed

The decision about how to proceed after the physical assessment of the victim.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: foam, dry powder extinguishers, CO_2, water spray. Use appropriate extinguishing method for conditions.
Unsuitable extinguishing media: Do not use a direct water jet.

5.2. Special hazards arising from the substance or mixture

Not applicable.

5.3. Advice for firefighters

Containers in fire area cooled with water spray, if it is possible to remove the danger zone.
Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Notify the appropriate service. Keep unnecessary people away; isolate hazard area.

For emergency responders: Ventilate the area. Eliminate all sources of ignition. Wear suitable protective clothing.

6.2. Environmental Precautions
Do not discharge into the drains/surface water/groundwater.

6.3. Methods and material for containment and cleaning up
Absorb with inert, absorbent material (such as sand, earth, vermiculite, diatomaceous earth, etc.). Placed the contaminated material in properly labeled containers for disposal in accordance with applicable regulations.

6.4. Reference to other sections
Disposal considerations – see section 13.
Personal precautions – see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Use only in well ventilated area. Avoid breathing vapors. Avoid contact with eyes. Avoid contact with skin.
Handle in accordance with good industrial hygiene and safety practice: Do not eat, drink and smoke at work, wash your hands after use, remove contaminated clothing and protective equipment before entering places for meals.

7.2. Conditions for safe storage, including any incompatibilities
Store in original container in cool place. Keep in properly labelled containers. Keep container closed. Store away from sources of heat or ignition. Do not store together with strong bases, strong acids and oxidizing agents.

7.3. Specific end use(s)
See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational Exposure Limits: Glycerol (CAS: 56-81-5): <50%

Country	Limit value - Eight hours		Limit value - Short term	
	ppm	mg/m^3	ppm	mg/m^3
Australia	-	10 (1)	-	-
Belgium	-	10	-	-
Canada - Ontario	-	10	-	-
Canada – Quebec	-	10	-	-
Finland	-	20	-	-
France	-	10	-	-
Germany (AGS)	-	200 (1)	-	-
Germany (DFG)	-	200 (1)	-	400 (1)(2)
Ireland	-	10	-	400 (1)(2)
New Zealand	-	10 (1)	-	-
Poland	-	10	-	-
Singapore	-	10	-	-
South Korea	-	10	-	-
Spain	-	10	-	-
Switzerland	-	50 inhalable aerosol	-	-
USA – OSHA	-	15 inhalable dust	-	100 inhalable aerosol
	-	5 inhalable dust	-	-
United Kingdom	-	10	-	-

Remarks	
Australia	(1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Germany (AGS)	(1) Inhalable fraction (2) 15 minutes average value

Germany (DFG)	(1) Inhalable fraction (2) 15 minutes average value
New Zealand	(1) The value for inhalable dust containing no asbestos and less than 1% free silica.

8.2. Exposure controls
Appropriate engineering controls:
Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

Individual protection measures, such as personal protective equipment:





Eye / face protection:
Chemical resistant goggles must be worn (EN 166).
Skin protection
Hand protection:
It is recommended to use protective gloves resistant to chemicals (EN374).
Suitable material:
Nitrile rubber, butyl rubber (thickness: >0,4mm, penetration time: >480min.).
The selection of suitable gloves does not only depend on the material, but also on the brand and quality resulting from differences in manufacturers. Resistance of the material, the glove can be determined after the tests. The exact time of the destruction of the protective gloves must be determined by the manufacturer.
Other:
Protective clothing.
Respiratory protection:
Use with adequate ventilation. Avoid inhaling vapors of the product.

Thermal hazards:
Not applicable.
Environmental exposure controls:
No special precautionary measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Colour	Colorless
Odour	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	No data available.
Lower and upper explosion limit	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.

pH	No data available.
Kinematic viscosity	No data available.
Solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Vapour pressure	No data available.
Density and/or relative density	No data available.
Relative vapour density	No data available.
Particle characteristics	Not applicable.

9.2. Other information
None.
9.2.1. Information with regard to physical hazard classes
No data available.
9.2.2. Other safety characteristics
No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
None.
10.2. Chemical stability
Under normal circumstances the product is stable.
10.3. Possibility of hazardous reactions
No data available.
10.4. Conditions to avoid
Keep away from heat, hot surfaces.
10.5. Incompatible materials
Strong bases, strong acids and oxidizing agents.
10.6. Hazardous decomposition products
No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
(a) acute toxicity: Based on the available data, the classification criteria are not met.
(b) skin corrosion/irritation: Based on the available data, the classification criteria are not met.
(c) serious eye damage/irritation: Based on the available data, the classification criteria are not met.
(d) respiratory or skin sensitisation: Based on the available data, the classification criteria are not met.
(e) germ cell mutagenicity: Based on the available data, the classification criteria are not met.
(f) carcinogenicity: Based on the available data, the classification criteria are not met.
(g) reproductive toxicity: Based on the available data, the classification criteria are not met.
(h) STOT-single exposure: Based on the available data, the classification criteria are not met.
(i) STOT-repeated exposure: Based on the available data, the classification criteria are not met.
(j) aspiration hazard: Based on the available data, the classification criteria are not met.

Component			Organism	Route of exposure
Ethylenediaminetetraacetic acid disodium salt dihydrate	LD50	> 2000 mg/kg	*Rattus* sp.	Skin

11.2. Information on other hazards
11.2.1. Endocrine disrupting properties
Based on the available data, the classification criteria are not met.
11.2.2. Other information
Based on the available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Component			Organism		Exposure
Ethylenediaminetetraacetic acid disodium salt dihydrate	LC50	41mg/l	fish	*Lepomis macrochirus*	96 h
	EC50	>100 mg/l	daphnia and other invertebrates	*Daphnia magna*	24 h
	EC50	>100 mg/l	algae	-	72 h
Glycerol	LC50	51 - 5 ml/l	fish	*Oncorhynchus* mykiss	96 h
	EC50	> 500 mg/l	daphnia and other invertebrates	*Daphnia magna*	48 h

12.2. Persistence and degradability
No data available.
12.3. Bioaccumulative potential
No data available.
12.4. Mobility in soil
No data available.
12.5. Results of PBT and vPvB assessment
The product contains no substance meet the criteria for PBT or vPvB.
12.6. Endocrine disrupting properties
The product does not contain substances with endocrine disrupting properties.
12.7. Other adverse effects
No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste disposal methods:
Waste must be disposed of in accordance with local authority requirements.
Contaminated packaging:
Packaging: Dispose of product waste in accordance with local regulations. The packaging is recyclable.

EU REGULATIONS
Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives

SECTION 14: Transport information

ADR/RID/IMDG/IATA:
14.1. UN number
Not applicable.
14.2. UN proper shipping name
Not applicable.
14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU REGULATIONS:

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
3. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance).
4. Directive 2008/98/EC Of The European Parliament And Of The Council of 19 November 2008 on waste and repealing certain Directives

15.2. Chemical safety assessment

No chemical safety assessments for the mixture.

- List of substances subject to authorization (REACH; Annex XIV): not applicable
- Candidate list of SVHCs: not applicable
- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (REACH; Annex XVII): not applicable

SECTION 16: Other information

Changes compared to the last version:

Points: 2.3.; 9.2.1.; 9.2.2.; 11.2.; 12.6.; 12.7..

Abbreviations and acronyms, list of relevant hazard statements used in the safety data sheet:

H332 – Harmful if inhaled
H373 – May cause damage to organs through prolonged or repeated exposure
Acute Tox. 4 – Acute toxicity cat. 4
STOT RE 2 – Specific target organ toxicity – repeated exposure cat. 2
PBT – Persistent, Bioaccumulative and Toxic
vPvB – very Persistent and very Bioaccumulative
ADR – International Carriage of Dangerous Goods by Road
RID – International Carriage of Dangerous Goods by Rail
IMDG – International Maritime Dangerous Goods
IATA – International Air Transport Association

Method of classification: Product is not classified as dangerous.

Training:

Not applicable.

Key literature:
Annex to Regulation (EU) 2015/830.
Current legislation (Section 15).
Information Agency for Chemical Substances.

The information in this MSDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this MSDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.