

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lysis Buffer VG**

Revision date: 24.03.2021

Product code: OE0002

Page 1 of 8

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Lysis Buffer VG

**Further trade names**

Article No. (user) :

OE0002

OE00020050

OE00020500

OE00021000

OE00025000

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

specific analysis.

Scientific research and development

**1.3. Details of the supplier of the safety data sheet**

Company name: MolGen B.V.

Street: Kazemat 23

Place: NL-3905NR Veenendaal

Telephone: +31 (0) 85 - 200 7431

Telefax: +31 (0) 85 - 200 6901

e-mail: info@molgen.com

Internet: http://www.molgen.com

**1.4. Emergency telephone number:**

+31 (0) 85 - 200 7431

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

**2.2. Label elements****Regulation (EC) No. 1272/2008**

Signal word: Warning

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lysis Buffer VG**

Revision date: 24.03.2021

Product code: OE0002

Page 2 of 8

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
151-21-3	sodium dodecyl sulfate			1 - < 5 %
	205-788-1		01-2119489461-32	
	Flam. Sol. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H228 H302 H315 H318 H335 H412			

Full text of H and EUH statements: see section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice.

**After inhalation**

Provide fresh air. If experiencing respiratory symptoms: Get medical advice/attention.

**After contact with skin**

Wash with plenty of water. Wash with plenty of water/soap. Take off contaminated clothing and wash it before reuse. In case of skin irritation, consult a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

**After ingestion**

Observe risk of aspiration if vomiting occurs. Do NOT induce vomiting. Rinse mouth immediately and drink 1 glass of water. Get medical advice/attention if you feel unwell.

Never give anything by mouth to an unconscious person or a person with cramps.

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

No information available.

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

Treat symptomatically. Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings. Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Non-flammable. Vapours can form explosive mixtures with air. Non-flammable.

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lysis Buffer VG

Revision date: 24.03.2021

Product code: OE0002

Page 3 of 8

#### **6.1. Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. No special environmental measures are necessary. Clean contaminated articles and floor according to the environmental legislation.

#### **6.3. Methods and material for containment and cleaning up**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13 Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## SECTION 7: Handling and storage

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Provide adequate ventilation. Wear personal protection equipment.

##### **Advice on protection against fire and explosion**

Usual measures for fire prevention.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep container tightly closed.

##### **Hints on joint storage**

No special measures are necessary.

#### **7.3. Specific end use(s)**

specific analysis.

Scientific research and development

## SECTION 8: Exposure controls/personal protection

#### **8.1. Control parameters**

##### **DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
151-21-3	sodium dodecyl sulfate			
Worker DNEL, long-term		inhalation	systemic	285 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	4060 mg/kg bw/day

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lysis Buffer VG

Revision date: 24.03.2021

Product code: OE0002

Page 4 of 8

#### PNEC values

CAS No	Substance	Value
Environmental compartment		
151-21-3	sodium dodecyl sulfate	
Freshwater		0.176 mg/l
Marine water		0.018 mg/l
Freshwater sediment		6.97 mg/kg
Marine sediment		0.697 mg/kg
Micro-organisms in sewage treatment plants (STP)		1.35 mg/l
Soil		1.29 mg/kg

#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls

##### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

##### Eye/face protection

Wear eye protection/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Skin protection

Use of protective clothing.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	clear
Odour:	none
pH-Value (at 20 °C):	8.0

##### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not applicable

##### Flammability

Solid:	not applicable
Gas:	not applicable

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lysis Buffer VG**

Revision date: 24.03.2021

Product code: OE0002

Page 5 of 8

**Explosive properties**

The product is not: Explosive.

Lower explosion limits: not determined

Upper explosion limits: not determined

Ignition temperature: not determined

**Auto-ignition temperature**

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

**Oxidizing properties**

Not oxidising.

Vapour pressure: not determined

Vapour pressure: not determined

Density (at 20 °C): 1.02 g/cm<sup>3</sup>

Bulk density: not determined

**Solubility in other solvents**

not determined

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Flow time: not determined

Vapour density: not determined

Evaporation rate: not determined

**9.2. Other information**

Solid content: not determined

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**10.2. Chemical stability**

The product is stable under storage at normal ambient temperatures.

**10.3. Possibility of hazardous reactions**

No known hazardous reactions.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lysis Buffer VG

Revision date: 24.03.2021

Product code: OE0002

Page 6 of 8

#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
151-21-3	sodium dodecyl sulfate				
	oral	LD50 977 mg/kg	Rat	vendor	(OECD Test Guideline 401)
	dermal	LD50 >2000 mg/kg	Rat	vendor	(OECD Test Guideline 402)

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
151-21-3	sodium dodecyl sulfate					
	Acute fish toxicity	LC50 29 mg/l	96 h	Pimephales promelas (fathead minnow)	vendor	(OECD Test Guideline 203)
	Acute algae toxicity	ErC50 mg/l >120	72 h	algae	vendor	ECHA
	Fish toxicity	NOEC mg/l >1.357	42 d	fish	vendor	ECHA
	Crustacea toxicity	NOEC mg/l 0.88	7 d	aquatic invertebrates	vendor	ECHA
	Acute bacteria toxicity	(135 mg/l)	3 h	Activated sludge	vendor	ECHA

### 12.2. Persistence and degradability

The solvent is biodegradable. After 28 days

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

### 12.6. Other adverse effects

No information available.

#### Further information

Avoid release to the environment. Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Completely emptied packages can be recycled.

## SECTION 14: Transport information

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lysis Buffer VG**

Revision date: 24.03.2021

Product code: OE0002

Page 7 of 8

**Land transport (ADR/RID)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Inland waterways transport (ADN)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Marine transport (IMDG)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**Air transport (ICAO-TI/IATA-DGR)****14.3. Transport hazard class(es):** No dangerous good in sense of these transport regulations.**14.6. Special precautions for user**

No information available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
CAS: Chemical Abstracts Service  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Lysis Buffer VG**

Revision date: 24.03.2021

Product code: OE0002

Page 8 of 8

vPvB: very persistent, very bioaccumulative  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]**

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method

**Relevant H and EUH statements (number and full text)**

H228 Flammable solid.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*