

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

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

- **1.1 Product identifier**
- **Trade name:** Human, Mouse, Rat p62/SQSTM1 ELISA Kit (Colorimetric)
- **Article number:** NBP2-61300
- **1.2 Relevant identified uses of the substance or mixture** For research use only
- **Application of the substance / the preparation:** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Novus Biologicals, LLC
10771 E Easter AveCentennial, CO 80112, USA
- **Further information obtainable from:**
Customer service
During normal business hours.
U.S. +1-888-506-6887
- **1.4 Emergency telephone number:**
U.S. +1-888-506-6887

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H335 May cause respiratory irritation.
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **Additional information:**
Components and Their Hazardous Ingredients (% , CAS):
80-2415: None

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 1)

80-2416: 0.002% 26172-55-4, 0.001% 2682-20-4, 0.0035% 8001-54-5, 0.61% 77-86-1, 0.79% 1185-53-1
 80-2417: 0.002% 26172-55-4, 0.001% 2682-20-4, 0.0035% 8001-54-5, 0.61% 77-86-1, 0.79% 1185-53-1
 80-2418: 0.001% 26172-55-4, 0.001% 2682-20-4, 0.0035% 8001-54-5, 0.31% 77-86-1, 0.4% 1185-53-1
 80-1509: 0.8766% 7647-14-5, 0.002% 26172-55-4, 1.0% 9048-46-8, 1.245% 1185-53-1, 0.001% 2682-20-4, 0.0035% 8001-54-5, 0.254% 77-86-1, 0.1% 9005-64-5
 80-0350: <0.2% 54827-17-7, <5% 872-50-4, < 0.5 124-43-6
 80-0377: 3.65% 7647-01-0/1
 80-1287: 12.6% 1185-53-1, 12.6% 7647-14-5, 2.2% 77-86-1, 1.0% 9005-64-5, 0.0035% 8001-54-5, 0.002% 26172-55-4, 0.001% 2682-20-4
 80-1284: 1% 302-95-4, 0.94% 9002-93-1, 0.88% 7647-14-5, 0.79% 1185-53-1, 0.1% 151-21-3, 0.038% 67-42-5, 0.037% 60-00-4, 0.007% 8001-54-5, 0.002% 26172-55-4, 0.001% 2682-20-4

2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008:

The product is classified and labelled according to the CLP regulation.

• Hazard pictograms:



GHS07 GHS08

• Signal word: Danger

• Hazard-determining components of labelling:

5-Chloro-2-methyl-4-isothiazolin-3-one
 2-methyl-2H-isothiazol-3-one

• Hazard statements:

H332 Harmful if inhaled.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H335 May cause respiratory irritation.
 H412 Harmful to aquatic life with long lasting effects.

• Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves / eye protection / face protection.
 P284 [In case of inadequate ventilation] wear respiratory protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards

• Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

EU

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 2)

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

• Dangerous components:

CAS: 1185-53-1 EINECS: 214-684-5	TRIS-HCl ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	4.317%
CAS: 9002-93-1	Polyethylene glycol octylphenol ether ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	0.275%
CAS: 872-50-4 EINECS: 212-828-1 Index number: 606-021-00-7	N-methyl-2-pyrrolidone ⚠ Repr. 1B, H360D; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤ 0.146%
CAS: 26172-55-4 EINECS: 247-500-7	5-Chloro-2-methyl-4-isothiazolin-3-one ⚠ Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330; ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	0.00185%

• SVHC

9002-93-1	Polyethylene glycol octylphenol ether
872-50-4	N-methyl-2-pyrrolidone

• **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

• General information:

In case of accident, seek medical advice immediately and show the label and the SDS where possible.

• After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

• After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Remove contaminated clothing.

• After eye contact:

Rinse opened eye for several minutes under running water.

• After ingestion:

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

In case of accident, seek medical advice immediately and show the label and the MSDS where possible.

SECTION 5: Firefighting measures

5.1 Extinguishing media

• **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 3)

- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Do not inhale explosion gases or combustion gases.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures:**
Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information).
- **Information about storage in one common storage facility:**
Do not store in warm environment or in contact with flammable or oxidizing substances.
- **Further information about storage conditions:**
Store under lock and key and with access restricted to technical experts or their assistants only.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 4)

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

872-50-4 N-methyl-2-pyrrolidone

IOELV	Short-term value: 80 mg/m ³ , 20 ppm
	Long-term value: 40 mg/m ³ , 10 ppm
	Skin

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· **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.
Nitrile rubber, NBR

· **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:**



Safety glasses

EU

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 5)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:

Multiple

Colour:

According to product specification

· Odour:

Characteristic

· Odour threshold:

Not determined.

· pH-value:

Not determined.

· Change in condition

Melting point/freezing point:

Undetermined.

Initial boiling point and boiling range: Undetermined.

· Flash point:

Not applicable.

· Flammability (solid, gas):

Not applicable.

· Decomposition temperature:

Not determined.

· Auto-ignition temperature:

Product is not selfigniting.

· Explosive properties:

Product does not present an explosion hazard.

· Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

· Vapour pressure:

Not determined.

· Density:

Not determined.

· Relative density

Not determined.

· Vapour density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· Partition coefficient: n-octanol/water:

Not determined.

· Viscosity:

Dynamic:

Not determined.

Kinematic:

Not determined.

· Solvent content:

Organic solvents:

≤ 0.1 %

Water:

23.7 %

Solids content:

0.0 %

· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** No further relevant information available.

· **10.2 Chemical stability:** Stable. Avoid strong oxidizing agents.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 6)

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

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity**
Harmful if inhaled.
 - **Primary irritant effect:**
 - **Skin corrosion/irritation** Not determined
 - **Serious eye damage/irritation**
Not determined
Causes serious eye irritation.
 - **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
 - **Carcinogenicity** Based on available data, the classification criteria are not met.
 - **Reproductive toxicity** Based on available data, the classification criteria are not met.
 - **STOT-single exposure**
May cause respiratory irritation.
 - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
 - **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 7)

- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Must be specially treated adhering to official regulations.
- **Uncleaned packaging:**
- **Recommendation:**
All waste must be handled in accordance with local, state and federal regulations. This material and its container must be disposed of in a safe way.

SECTION 14: Transport information

· 14.1 UN-Number	Not applicable
· ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	Not applicable
· ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	Not applicable
· ADR, ADN, IMDG, IATA	
· Class	Void
· 14.4 Packing group	Not applicable
· ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	Not applicable
· Marine pollutant:	No
· 14.6 Special precautions for user:	Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 - **Directive 2012/18/EU**
 - **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 - **LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV)**
- | | | |
|-----------|---------------------------------------|-------------------------|
| 9002-93-1 | Polyethylene glycol octylphenol ether | Sunset date: 2021-01-04 |
|-----------|---------------------------------------|-------------------------|
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 71, 72

(Contd. on page 9)

EU

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 8)

- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**

9002-93-1	Polyethylene glycol octylphenol ether
872-50-4	N-methyl-2-pyrrolidone

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 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. Not for drug, household or other uses.

- **Relevant phrases**

To the best of our knowledge, the information contained herein is accurate and up to date based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Neither Novus Biologicals, nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. It is the sole responsibility of the user to make a final determination as to the suitability of the material within. All materials could potentially present unknown hazards and should be used with caution.

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H360D May damage the unborn child.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

- **Department issuing SDS:** Customer service

- **Contact:** tel. +1 610-941-0430

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
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
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
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)
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity - oral – Category 3
Acute Tox. 4: Acute toxicity - oral – Category 4

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2021

Revision: 10.08.2021

Trade name: p62 ELISA Kit

(Contd. of page 9)

Acute Tox. 2: Acute toxicity - dermal – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1B: Respiratory sensitisation – Category 1B
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

— EU —