# MSDS Selector Resins according to Regulation (EC) No. 1907/2006

## SECTION 1: Identification of the mixture and of the company

### 1.1 Product identifiers

Product group name: Selector resins

Product Numbers: Selector resins *Nxx10, Nxx11, Nxx12, Nxx15, Nxx16, Nxx17*

Substance: Selector resins stored in **phosphate buffered saline and 20% ethanol**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Analytical uses

### 1.3 Details of the supplier of the safety data sheet

Company: NanoTag Biotechnologies GmbH
Rudolf-Wissell-Str. 28a
37079 Gottingen
Germany
Tel: +49 551 50556365

### 1.4 Emergency telephone

CHEMTREC®: 1-800-424-9300

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Flammable liquids (Category 3), H226.

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram: 

Signal Word: **Warning**

**Hazard statement(s)**

H226 Flammable liquid and vapor.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

Supplemental Hazard Statements: none

**Reduced Labeling (<= 125 ml)**

Pictogram 

Signal Word: Warning

Hazard statement(s): none

Precautionary statement(s): none

Supplemental Hazard Statements: none

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

| Component | Classification | Concentration |
|---|---|---|
| Ethanol (EtOH) | | |
| CAS-No.: 64-17-5<br>EC-No.: 200-578-6<br>Index-No.: 603-002-00-5<br>Reg.-No.: 01-2119457610-43-XXXX | Flam. Liq. 2; Eye Irrit. 2;<br>H225, H319<br>Concentration limits:<br>>= 50 %: Eye Irrit. 2A,<br>H319; | 20 % (v/v) |

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## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

**If inhaled:**

After inhalation: fresh air.

**In case of skin contact:**

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

**In case of eye contact:**

After eye contact: rinse out with plenty of water. Remove contact lenses.

**If swallowed:**

After swallowing: make victim drink water (two glasses at most). Do not induce vomiting. Consult doctor if feeling unwell.

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

The most important known symptoms and effects are described in the labelling (see section2.2) and/or in section 11.

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

No data available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media**

Carbon dioxide (CO2) Foam Dry powder Water.

**Unsuitable extinguishing media**

Do not use full water jet

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air at elevated temperatures.

Pay attention to flashback.

Development of hazardous combustion gases or vapours possible in the event of fire

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

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## SECTION 6: Accidental release measures

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

Avoid substance contact. Do not breathe vapors, aerosols. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

### 6.2 Environmental precautions

Do not let product enter drains. Risk of explosion.

### 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb® ). Dispose of properly. Clean up affected area.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

For precautions see section 2.2.

**Advice on protection against fire and explosion**

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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

**Storage conditions**

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

**Storage stability**

| | |
|---|---|
| Recommended storage temperature | 2° - 8 °C |

**Storage class**

| | |
|---|---|
| Storage class (TRGS 510) | 3: Flammable liquids |

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Ingredients with workplace control parameters.

### 8.2 Exposure controls

**Personal protective equipment**

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards as for example EN 166(EU).

Skin protection

Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Body Protection

Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required under normal conditions. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges.

**Control of environmental exposure**

Do not let product enter drains. Risk of explosion.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| a) Physical state | Liquid |
| b) Color | Colorless |
| c) Odor | Alcohol-like |
| d) Melting / freezing point | No data available |
| e) Boiling point and boiling range | No data available |
| f) Flammability (solid, gas) | No data available |
| g) Flammability or explosive limits | No data available |
| h) Flash point | No data available |
| i) Autoignition temperature | No data available |
| j) Decomposition temperature | No data available |
| k) pH | 7,2 at 25 °C |
| l) Viscosity | No data available |
| m) Water solubility | Completely water soluble |
| n) Vapor pressure | No data available |
| o) Density | No data available |

| | |
|---|---|
| p) Particle characteristics | No data available |
| q) Explosive properties | Not classified as explosive. |
| r) Oxidizing properties | None |

### 9.2 Other safety information

No data available

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Vapor/air-mixtures are explosive at intense warming.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:
hydrogen peroxide
perchlorates
perchloric acid
Nitric acid
mercury(II) nitrate
permanganic acid
Nitriles
peroxi compounds
Strong oxidizing agents
nitrosyl compounds
Peroxides
sodium
Potassium
halogen oxides
calcium hypochlorite
nitrogen dioxide
metallic oxides
uranium hexafluoride
iodides
Chlorine
Alkali metals
Alkaline earth metals
alkali oxides
Ethylene oxide
silver
with
Nitric acid
silver compounds
with
Ammonia
potassium permanganate

with
conc. sulfuric acid
Risk of ignition or formation of inflammable gases or vapours with:
halogen-halogen compounds
chromium(VI) oxide
chromyl chloride
Fluorine
hydrides
Oxides of phosphorus
platinum
Nitric acid
potassium permanganate

### 10.4 Conditions to avoid

Warning

### 10.5 Incompatible materials

Rubber, various plastics

### 10.6 Hazardous decomposition products

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

| | |
|---|---|
| Acute toxicity oral / dermal: | Symptoms: Nausea, Vomiting |
| | Symptoms: slight mucosal irritations |
| | Dermal: No data available |
| Skin corrosion/irritation: | Dermatitis Drying-out effect resulting in rough and chapped skin. |
| Serious eye damage / irritation: | No data available |
| Respiratory / skin sensitization: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | No data available |
| Reproductive toxicity: | No data available |
| STOT - single exposure: | No data available |
| STOT - repeated exposure: | No data available |
| Aspiration hazard: | No data available |

### 11.2 Additional Information

No data available

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## SECTION 12: Ecological information

### 12.1 Ecotoxicity

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants.

| | |
|---|---|
| Persistence and degradability: | No data available. |
| Bioaccumulation | No data available. |
| Mobility | No data available |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### 14.1 UN number

ADR/RID: 1170 IMDG: 1170 IATA: 1170

### 14.2 UN proper shipping name

| | |
|---|---|
| ADR/RID: | ETHANOL SOLUTION |
| IMDG: | ETHANOL SOLUTION |
| IATA: | ETHANOL SOLUTION |

### 14.3 Transport hazard class(es)

ADR/RID: 3 IMDG: 3 IATA: 3

### 14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

### 14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

### 14.6 Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

## SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**National legislation**

| | |
|---|---|
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. | : FLAMMABLE LIQUIDS |

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

**Key/Legend**

ADR/RID = European Agreement of Dangerous Goods by Road/Rail; CAS# = Chemical Abstract Service number; EC# = EC number (EINECS or ELINCS); EEC = European Economic Community; EU = European Union; IATA = International Air Transport Association

**MSDS revised:** 06/03/22

**Disclaimer:** The information contained in this Material Safety Datasheet is believed to be accurate but it is the responsibility of the user or supplier to determine the applicability of these data to the formulation of necessary safety precautions. NanoTag Biotechnologies shall not be held responsible for any damage resulting from the use of the above product or the information contained in this material safety datasheet.