

## Safety Data Sheet

according to UK REACH Regulation

### DNA

Revision date: 08.12.2022

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

### 1.1. Product identifier

DNA

#### Further trade names

This product is part of a kit.

Included in the following article: ASP-X, AS-X, TS-0, DS-6, DC-0, LFS-0, DK-FT-KT-1, DK-KT-1, DK-DP-1, HK-NHS-1, HK-NHS-2, HK-NHS-3, HK-NHS-4, HK-NHS-5, HK-MAL-1, HK-MAL-2, HK-NTA-1, HK-SA-1, HK-SXT-1, HK-FC-1, HK-GFP-1, CNL-X, HK-YS-1, HK-YS-2, HK-YS-3, HK-EA-1, HK-EA-2, HK-CS-1, HK-CS-2, LFS-2, HK-FC-3, NOR-0, NOR-Ra, NOR-Ga, NOR-X, CK-X, PF-HN2-2-B48, PF-AB-1, MPC-X, MPC2-X, ENZ-X, ADP-48-2-0, HK-ORM-1, HK-ORM-X, HK-NTA-2, HK-NTA-X

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

#### Use of the substance/mixture

Scientific research and development

#### Uses advised against

Any non-intended use.

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

Company name: Dynamic Biosensors GmbH  
Street: Perchtinger Str. 8/10  
Place: D-81379 München  
Telephone: +49-89-8974544-0

### 1.4. Emergency telephone number:

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

This substance is not classified as hazardous in accordance with GB CLP Regulation.

### 2.2. Label elements

#### Additional advice on labelling

Labelling according to GHS (GB CLP) regulation.: none

### 2.3. Other hazards

This substance does not meet the PBT/vPvB criteria according to UK REACH.

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

#### Chemical characterization

The product does not contain dangerous substances according to UK REACH, Annex II, Part A , 3.1/3.2. that must be mentioned in Chapter 3.

Sum formula: C15H24N4O8

Molecular weight: 388.37

#### Hazardous components

none (according to UK REACH Regulation)

#### Further Information

Product does not contain listed SVHC substances > 0.1 % according to UK REACH.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

##### After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

##### After contact with eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of troubles or persistent symptoms, consult an ophthalmologist.

##### After ingestion

Rinse mouth thoroughly with water. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

See sections 2 and 11

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Alcohol resistant foam. Atomized water.

##### Unsuitable extinguishing media

High power water jet.

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

Can be released in case of fire: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

#### 5.3. Advice for firefighters

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

##### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

### SECTION 6: Accidental release measures

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

##### General advice

Avoid dust formation.

Do not breathe dust.

Wear personal protection equipment (refer to section 8).

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

##### Other information

Take up mechanically.

Treat the recovered material as prescribed in the section on waste disposal.

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Clean contaminated objects and areas thoroughly observing environmental regulations.

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

Safe handling: see section 7

Disposal: see section 13

### **SECTION 7: Handling and storage**

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

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

Wear personal protection equipment (refer to section 8).

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

Usual measures for fire prevention. Dust clouds may present an explosion hazard.

##### **Advice on general occupational hygiene**

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

##### **Further information on handling**

Avoid generation of dust.

General protection and hygiene measures: See section 8.

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

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

Keep container tightly closed in a cool, well-ventilated place.

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

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

##### **Further information on storage conditions**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: -20 °C

Protect against: frost. UV-radiation/sunlight. heat. Humidity

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

See section 1.

### **SECTION 8: Exposure controls/personal protection**

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

##### **Additional advice on limit values**

To date, no national critical limit values exist.

#### **8.2. Exposure controls**

##### **Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Dust should be exhausted directly at the point of origin.

##### **Individual protection measures, such as personal protective equipment**

##### **Eye/face protection**

Dust protection goggles.

##### **Hand protection**

In case of prolonged or frequently repeated skin contact:

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

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Breakthrough time  $\geq$  8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time  $\geq$  8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time  $\geq$  8 h

The selected protective gloves have to satisfy the specifications of the Personal Protective Equipment at Work (Amendment) Regulations 2022 and the standard EN ISO 374.

Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

**Skin protection**

Suitable protective clothing: Protective clothing.

**Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and Generation/formation of dust

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

**Environmental exposure controls**

No special precautionary measures are necessary.

**SECTION 9: Physical and chemical properties**

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

Physical state:	solid	
Colour:	not determined	
Odour:	characteristic	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not determined
Auto-ignition temperature:		not determined
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:		Immiscible
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		SECTION 12: Ecological information
Vapour pressure:		not determined
Density:		not determined
Bulk density:		not determined
Relative vapour density:		not determined

**9.2. Other information**

**Information with regard to physical hazard classes**

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**Explosive properties**

Dust clouds may present an explosion hazard.

**Sustaining combustion:**

Not sustaining combustion

**Self-ignition temperature**

Solid:

not determined

**Oxidizing properties**

none

**Other safety characteristics**

**Solvent separation test:**

not determined

**Solvent content:**

not determined

**Solid content:**

not determined

**Sublimation point:**

not determined

**Softening point:**

not determined

**Pour point:**

not determined

**Viscosity / dynamic:**

not determined

**Flow time:**

not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

Refer to section 10.5.

**10.4. Conditions to avoid**

Protect against: UV-radiation/sunlight. heat.

**10.5. Incompatible materials**

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

**10.6. Hazardous decomposition products**

Does not decompose when used for intended uses.

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Toxicokinetics, metabolism and distribution**

No data available.

**Acute toxicity**

Based on available data, the classification criteria are not met.

No data available.

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

No data available .

**Sensitising effects**

Based on available data, the classification criteria are not met.

No data available .

**Carcinogenic/mutagenic/toxic effects for reproduction**

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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Carcinogenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.  
No data available

#### **STOT-single exposure**

Based on available data, the classification criteria are not met.  
No data available .

#### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.  
No data available .

#### **Aspiration hazard**

Based on available data, the classification criteria are not met.  
No data available .

#### **Specific effects in experiment on an animal**

No data available.

### **11.2. Information on other hazards**

#### **Endocrine disrupting properties**

No data available

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

No data available.

### **12.2. Persistence and degradability**

No data available .

### **12.3. Bioaccumulative potential**

No indication of bioaccumulation potential.

### **12.4. Mobility in soil**

No data available.

### **12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.  
The aforementioned statement applies to substances contained in the product with a minimum content of 0.1 %.

### **12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

### **12.7. Other adverse effects**

No data available.

#### **Further information**

Do not allow to enter into surface water or drains.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations**

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.  
Non-contaminated packages may be recycled.  
According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.  
Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

#### **List of Wastes Code - residues/unused products**

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160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

**List of Wastes Code - used product**

160509 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

**List of Wastes Code - contaminated packaging**

150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO-TI/IATA-DGR)**

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.  
**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Refer to section 6 - 8

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**SECTION 15: Regulatory information**

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

**EU regulatory information**

Directive 2010/75/EU on industrial emissions: No information available.

Directive 2004/42/EC on VOC in paints and varnishes: No information available.

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Information according to Directive  
2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

#### Additional information

Safety Data Sheet according to UK-REACH Regulation

The substance is classified as not hazardous according to GHS (GB CLP).

UK REACH Appendix XVII, No.: not relevant

#### National regulatory information

Water hazard class (D):

-- non-hazardous to water

### SECTION 16: Other information

#### Changes

Rev. 1,0; Initial release: 23.10.2020

Rev. 2,0; 07.12.2022; Changes in section: 1, 7, 16

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

h: hour

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect concentration

NLP: No-Longer Polymers

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail )

REACH: Registration, Evaluation, Authorisation of Chemicals

SVHC: substance of very high concern

TRGS: Technische Regeln für Gefahrstoffe

UN: United Nations

VOC: Volatile Organic Compounds

WGK: Water Hazard Class (Germany)



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**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.