

# SAFETY DATA SHEET

according to to WHS Regulations (Hazardous Chemicals)

## CD34 QuantiFlowEx Kit

Date of creation	19th January 2023	Version	1
Date of revision			

### PRODUCT IDENTIFICATION

Cat. No.	Product name
ED7080	CD34 QuantiFlowEx Kit

### COMPONENTS OF THE KIT

Code	Name	Classification
ED7080-1	Staining Reagent	Not classified as hazardous.
ED7080-2	7-AAD	Not classified as hazardous.
ED7080-3	Lysing Solution	Not classified as hazardous.

# SAFETY DATA SHEET

according to WHS Regulations (Hazardous Chemicals)

## Staining Reagent

Creation date 19th January 2023  
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1. Product identifier**  
Substance / mixture Staining Reagent mixture  
Number ED7080-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
diagnostic reagent

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

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

**Supplier/Local address**

Name or trade name Sysmex Australia Pty Ltd  
Address Suite 3, Level 5  
15 Talavera Rd  
Macquarie Park  
NSW 2113  
Phone +61 2 9016 3040

**Manufacturer**

Name or trade name EXBIO Praha, a.s.  
Address Nad Safinou II / 341, Vestec, 25250  
Czech Republic  
Phone +420261090666  
E-mail orders@exbio.cz  
Web address www.exbio.cz

**Competent person responsible for the safety data sheet**

Name EXBIO Praha, a.s.  
E-mail orders@exbio.cz

**1.4. Emergency telephone number**

For medical advice (English): **13 11 26** (Poisons Information Centre)

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

The mixture is not classified as dangerous according to the WHS Regulations.

Full text of all classifications and hazard statements is given in the section 16.

**2.2. Label elements**

none

**2.3. Other hazards**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to GHS
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0.099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) AUH032

Full text of all classifications and hazard statements is given in the section 16.

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

##### If on skin

Remove contaminated clothes.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

##### If inhaled

Possible irritation of airways, cough, headache.

##### If on skin

Not expected.

##### If in eyes

Possible irritation.

##### If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

### SECTION 6: Accidental release measures

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

Follow the instructions in the Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well-ventilated areas designated for this purpose.

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## Staining Reagent

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### 7.3. Specific end use(s)

Diagnostic reagent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### SWA (Australia)

Substance name (component)	Type	Value
sodium azide (CAS: 26628-22-8)	TWA (ppm)	0.11 Peak limitation
	TWA (mg/m <sup>3</sup> )	0.3 Peak limitation

### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Maintain air concentration below occupational exposure standards, using engineering controls if necessary

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	data not available
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage. Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. When reacting with acids, sodium azide can release highly toxic hydrogen azide acid / hydrogen azide gas.

### 10.2. Chemical stability

The product is stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.  
sodium azide

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	27 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	20 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	0.054 mg/l	4 hour	Rat (Rattus norvegicus)	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### 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.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

sodium azide

Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	5.6 mg/l	48 hour	Aquatic invertebrates	

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- 12.2. Persistence and degradability**  
not available
- 12.3. Bioaccumulative potential**  
Not available.
- 12.4. Mobility in soil**  
Not available.
- 12.5. Results of PBT and vPvB assessment**  
Not available.
- 12.6. Endocrine disrupting properties**  
None of the ingredients are listed.
- 12.7. Other adverse effects**  
Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### SECTION 14: Transport information

- 14.1. UN number or ID number**  
not subject to transport regulations
- 14.2. UN proper shipping name**  
not relevant
- 14.3. Transport hazard class(es)**  
not relevant
- 14.4. Packing group**  
not relevant
- 14.5. Environmental hazards**  
not relevant
- 14.6. Special precautions for user**  
Reference in the Sections 4 to 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

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) - All components are listed on AIIC, or are exempt.  
Australia Hazardous Chemical Information System (HCIS)  
Australian Inventory of Chemical Substances (AICS) - All ingredients are listed or exempt from listing.

- 15.2. Chemical safety assessment**  
not available

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H310 Fatal in contact with skin.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H300+H330 Fatal if swallowed or if inhaled.

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### A list of additional standard phrases used in the safety data sheet

AUH032 Contact with acids liberates very toxic gas.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
SWA (Australia)	Safe Work Australia
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aquatic Acute	Hazardous to the aquatic environment
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

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### Information about data sources used to compile the Safety Data Sheet

Australian Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals, July 2020

### The changes (which information has been added, deleted or modified)

The first edition of the GHS (rev.7) version of the safety data sheet

### More information

Classification procedure - calculation method.

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### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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# SAFETY DATA SHEET

according to to WHS Regulations (Hazardous Chemicals)

## 7-AAD

Creation date 19th January 2023  
Revision date Version 1

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

**1.1. Product identifier** 7-AAD  
Substance / mixture mixture  
Number ED7080-2

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
diagnostic reagent

**Mixture uses advised against**

The product should not be used in ways other than those referred in Section 1.

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

**Supplier/Local address**

Name or trade name Sysmex Australia Pty Ltd  
Address Suite 3, Level 5  
15 Talavera Rd  
Macquarie Park  
NSW 2113  
Phone +61 2 9016 3040

**Manufacturer**

Name or trade name EXBIO Praha, a.s.  
Address Nad Safinou II / 341, Vestec, 25250  
Czech Republic  
Phone +420261090666  
E-mail orders@exbio.cz  
Web address www.exbio.cz

**Competent person responsible for the safety data sheet**

Name EXBIO Praha, a.s.  
E-mail orders@exbio.cz

**1.4. Emergency telephone number**

For medical advice (English): **13 11 26** (Poisons Information Centre)

### SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture**

The mixture is not classified as dangerous according to the WHS Regulations.

Full text of all classifications and hazard statements is given in the section 16.

**2.2. Label elements**

none

**2.3. Other hazards**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

**3.2. Mixtures**

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to GHS
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0.099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) AUH032
CAS: 7240-37-1	7-Aminoactinomycin D	<0.05	

Full text of all classifications and hazard statements is given in the section 16.

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## 7-AAD

Creation date	19th January 2023	Version	1
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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

##### If on skin

Remove contaminated clothes.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

##### If inhaled

Possible irritation of airways, cough, headache.

##### If on skin

Not expected.

##### If in eyes

Possible irritation.

##### If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

### SECTION 6: Accidental release measures

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

Follow the instructions in the Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well-ventilated areas designated for this purpose.

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## 7-AAD

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### 7.3. Specific end use(s)

Diagnostic reagent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### SWA (Australia)

Substance name (component)	Type	Value
sodium azide (CAS: 26628-22-8)	TWA (ppm)	0.11 Peak limitation
	TWA (mg/m <sup>3</sup> )	0.3 Peak limitation

### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Maintain air concentration below occupational exposure standards, using engineering controls if necessary

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	without fragrance
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage. Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. When reacting with acids, sodium azide can release highly toxic hydrogen azide acid / hydrogen azide gas.

### 10.2. Chemical stability

The product is stable under normal conditions.

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### 10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.  
sodium azide

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	27 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	20 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	0.054 mg/l	4 hour	Rat (Rattus norvegicus)	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### 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.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

sodium azide

Parameter	Value	Exposure time	Species	Environment
EC <sub>50</sub>	5.6 mg/l	48 hour	Aquatic invertebrates	

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### 12.2. Persistence and degradability

not available

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Not available.

### 12.6. Endocrine disrupting properties

None of the ingredients are listed.

### 12.7. Other adverse effects

Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

## SECTION 14: Transport information

### 14.1. UN number or ID number

not subject to transport regulations

### 14.2. UN proper shipping name

not relevant

### 14.3. Transport hazard class(es)

not relevant

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 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

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).

Inventory listings AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) - All components are listed on AIIC, or are exempt.

Australia Hazardous Chemical Information System (HCIS)

Australian Inventory of Chemical Substances (AICS) - All ingredients are listed or exempt from listing.

### 15.2. Chemical safety assessment

not available

## SECTION 16: Other information

### A list of standard risk phrases used in the safety data sheet

H310 Fatal in contact with skin.  
H373 May cause damage to organs through prolonged or repeated exposure if swallowed.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H300+H330 Fatal if swallowed or if inhaled.

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## 7-AAD

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### A list of additional standard phrases used in the safety data sheet

AUH032 Contact with acids liberates very toxic gas.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
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log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
SWA (Australia)	Safe Work Australia
TWA	Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
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Acute Tox.	Acute toxicity
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Aquatic Chronic	Hazardous to the aquatic environment (chronic)
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

# SAFETY DATA SHEET

according to to WHS Regulations (Hazardous Chemicals)

## 7-AAD

Creation date 19th January 2023

Revision date Version 1

### **Information about data sources used to compile the Safety Data Sheet**

Australian Code of Practice on Preparation of Safety Data Sheets for Hazardous Chemicals, July 2020

### **The changes (which information has been added, deleted or modified)**

The first edition of the GHS (rev.7) version of the safety data sheet

### **More information**

Classification procedure - calculation method.

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### **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

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# SAFETY DATA SHEET

according to WHS Regulations (Hazardous Chemicals)

## Lysing Solution

Creation date 19th January 2023  
Revision date Version 1

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

- 1.1. Product identifier**  
Lysing Solution  
Substance / mixture mixture  
Number ED7080-3
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Diagnostic reagent  
**Mixture uses advised against**  
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier/Local address**  
Name or trade name Sysmex Australia Pty Ltd  
Address Suite 3, Level 5  
15 Talavera Rd  
Macquarie Park  
NSW 2113  
Phone +61 2 9016 3040
- Manufacturer**  
Name or trade name EXBIO Praha, a.s.  
Address Nad Safinou II / 341, Vestec, 25250  
Czech Republic  
Phone +420261090666  
E-mail orders@exbio.cz  
Web address www.exbio.cz
- Competent person responsible for the safety data sheet**  
Name EXBIO Praha, a.s.  
E-mail orders@exbio.cz
- 1.4. Emergency telephone number**  
For medical advice (English): **13 11 26** (Poisons Information Centre)

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
The mixture is not classified as dangerous according to the WHS Regulations.  
Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**  
none
- 2.3. Other hazards**  
This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

### SECTION 3: Composition/information on ingredients

- 3.2. Mixtures**  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to GHS
Index: 017-014-00-8 CAS: 12125-02-9 EC: 235-186-4	ammonium chloride	<9.9	Acute Tox. 4, H302 Eye Irrit. 2, H319

Full text of all classifications and hazard statements is given in the section 16.

# SAFETY DATA SHEET

according to WHS Regulations (Hazardous Chemicals)

## Lysing Solution

Creation date	19th January 2023	Version	1
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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

##### If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

##### If on skin

Remove contaminated clothes.

##### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

##### If swallowed

Rinse out the mouth with clean water. In the event of issues, find medical help.

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

##### If inhaled

Possible irritation of airways, cough, headache.

##### If on skin

Not expected.

##### If in eyes

Possible irritation.

##### If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

##### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

### SECTION 6: Accidental release measures

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

Follow the instructions in the Sections 7 and 8.

#### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

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

Store in tightly closed containers in cold, dry and well-ventilated areas designated for this purpose.

# SAFETY DATA SHEET

according to WHS Regulations (Hazardous Chemicals)

## Lysing Solution

Creation date 19th January 2023  
Revision date Version 1

### 7.3. Specific end use(s)

Diagnostic reagent

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### SWA (Australia)

Substance name (component)	Type	Value
ammonium chloride (CAS: 12125-02-9)	TWA (mg/m <sup>3</sup> )	10
	STEL (mg/m <sup>3</sup> )	20

### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Maintain air concentration below occupational exposure standards, using engineering controls if necessary

#### Eye/face protection

Protective goggles.

#### Skin protection

Hand protection: Protective gloves resistant to the product.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	100 °C
Flammability	data not available
Lower and upper explosion limit	data not available
Flash point	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	data not available
Density and/or relative density	
Density	1 g/cm <sup>3</sup> at 20 °C
Relative vapour density	data not available
Particle characteristics	data not available

### 9.2. Other information

not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage.

### 10.2. Chemical stability

The product is stable under normal conditions.

### 10.3. Possibility of hazardous reactions

# SAFETY DATA SHEET

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## Lysing Solution

Creation date 19th January 2023

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Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

#### Acute toxicity

Based on available data the classification criteria are not met.  
ammonium chloride

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	1.41 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD <sub>50</sub>	> 2000 mg/kg		Rabbit	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### 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.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

#### Aspiration hazard

Based on available data the classification criteria are not met.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

ammonium chloride

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	209 mg/l	96 hour	Cyprinus carpio	
NOEC	11.8 mg/l	28 d	Pimephales promelas	
EC <sub>50</sub>	90.4 mg/l	10 d	Diatoms	
EC <sub>20</sub>	850 mg/l	0.5 h	Activated sludge	
EC <sub>50</sub>	101 mg/l	48 h	Daphnia magna	

# SAFETY DATA SHEET

according to WHS Regulations (Hazardous Chemicals)

## Lysing Solution

Creation date 19th January 2023  
Revision date Version 1

- 12.2. Persistence and degradability**  
not available
- 12.3. Bioaccumulative potential**  
Not available.
- 12.4. Mobility in soil**  
Not available.
- 12.5. Results of PBT and vPvB assessment**  
Not available.
- 12.6. Endocrine disrupting properties**  
None of the ingredients are listed.
- 12.7. Other adverse effects**  
Not available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

### SECTION 14: Transport information

- 14.1. UN number or ID number**  
not subject to transport regulations
- 14.2. UN proper shipping name**  
not relevant
- 14.3. Transport hazard class(es)**  
not relevant
- 14.4. Packing group**  
not relevant
- 14.5. Environmental hazards**  
not relevant
- 14.6. Special precautions for user**  
Reference in the Sections 4 to 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**
- |                    |   |
|--------------------|---|
| Classifications    | Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals (GHS Revision 7).  |
| Inventory listings | AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals) - All components are listed on AIIC, or are exempt.<br>Australia Hazardous Chemical Information System (HCIS)<br>Australian Inventory of Chemical Substances (AICS) - All ingredients are listed or exempt from listing. |
- 15.2. Chemical safety assessment**  
not available

### SECTION 16: Other information

#### A list of standard risk phrases used in the safety data sheet

H302 Harmful if swallowed.  
H319 Causes serious eye irritation.

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

# SAFETY DATA SHEET

according to to WHS Regulations (Hazardous Chemicals)

## Lysing Solution

Creation date	19th January 2023	Version	1
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### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
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ppm	Parts per million
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RID	Agreement on the transport of dangerous goods by rail
STEL	Short term exposure limit
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according to to WHS Regulations (Hazardous Chemicals)

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