

safety data sheet

SialoCapper-ID Kit (P/N225-42160-58) contains following reagents:
Reagent A, Reagent B, and Reagent C



Trade name: SialoCapper-ID Kit, Reagent A

Product no.: 225-42160-58-A

Current version : 1.1.0, issued: March 23, 2021

Replaced version: 1.0.0, issued: October 06, 2020

Region: USA

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

Product identifier:

Trade name

SialoCapper-ID Kit, Reagent A

Other Means of Identification: No data Available

Recommended Use/Restrictions: Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Chemical processes general

Uses advised against

No data available.

Details of the supplier: Shimadzu Scientific Instruments, Inc.

Address

7102 Riverwood Dr.

Columbia, MD 21046

Telephone no. +1 800-477-1227

Fax no. +1 410-381-1222

Emergency telephone number

+1 800-477-1227

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (USA OSHA) 29CFR1910.1200

Eye Irrit. Category 2

Skin Irrit. Category 2

Classification information

This product is assessed and classified using the methods and criteria below referred to in Appendix A of Regulation (USA) 27CFR1910.1200. Mixture Physical hazards, Health hazards, and Environmental hazards: determined through assessment data based on individual Manufacturer's SDS information as per the methods of Appendix A.

Labelling according to Regulation (USA) 29CFR1910.1200

Hazard pictograms



Signal word

Warning

Hazard statement(s)

H315

Causes skin irritation.

H319

Causes eye irritation.

Precautionary statement(s)

P264

Wash hands thoroughly after handling.

P280

Wear protective gloves/protective clothing/eye protection/face 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.

P337+P313

If eye irritation persists: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

2.2 Other hazards

No data available.

Trade name: SialoCapper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name		Additional information	
	CAS	Classification (USA) 29CFR1910.1200 Appendix A	Concentration	%
1	dimethyl sulfoxide			
	67-68-5	Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 70.00 - < 90.00	%-b.w.
2	isopropylammonium-chloride			
	15572-56-2	Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 10.00 - < 25.00	%-b.w.
3	1H-1,2,3-benzotriazol-1-ol hydrate			
	80029-43-2	-	>= 5.00 - < 10.00	%-b.w.

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

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

SECTION 6: Accidental release measures

Trade name: SialoCapper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight. Store in refrigerator. Keep under inert gas.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Incompatible products

Do not store together with foodstuffs. Do not store together with oxidizing agents.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield

Hand protection

In case of intensive contact, wear protective gloves. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Trade name: SialoCapper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**Other**

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Form/Colour		
liquid		
colourless, clear		
Odour		
odourless		
Odour threshold		
No data available		
pH value		
No data available		
Boiling point / boiling range		
No data available		
Melting point / melting range		
No data available		
Decomposition point / decomposition range		
No data available		
Flash point		
Value	93	°C
Method	closed cup	
Auto-ignition temperature		
No data available		
Oxidising properties		
No data available		
Explosive properties		
No data available		
Flammability (solid, gas)		
No data available		
Lower flammability or explosive limits		
No data available		
Upper flammability or explosive limits		
No data available		
Vapour pressure		
No data available		
Vapour density		
No data available		
Evaporation rate		
No data available		
Relative density		
No data available		
Density		
No data available		
Solubility in water		
Comments	miscible	
Solubility(ies)		
No data available		
Partition coefficient: n-octanol/water		
No data available		
Viscosity		

Trade name: SialoCopper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA

No data available

9.2 Other information**Other information**

No data available.

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

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

light; Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Oxidizing agents; Aluminium; Zinc; copper

10.6 Hazardous decomposition productsCarbon monoxide and carbon dioxide; Nitrous oxides (NO_x); Ammonia (NH₃)**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity**

No data available

Acute dermal toxicity

No data available

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No data available

Toxicity to fish (chronic)

No data available

Trade name: SialoCapper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**Toxicity to Daphnia (acute)**

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. It is the generator's responsibility to comply with Federal, State, and Local rules and regulations.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the licensed disposal company.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

Trade name: SialoCapper-ID Kit, Reagent A**Product no.:** 225-42160-58-A**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (USA) 29CFR1920.1200 and appendices.

Threshold Limit Values as found in component Safety Data Sheets and the NIOSH Pocket Guide.

Date of Issue: October 06, 2020

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier****Trade name****SialoCapper-ID Kit, Reagent B**

Substance name N'-(ethylcarbonimidoyl)-N,N-dimethylpropane-1,3-diamine monohydrochloride

Identification numbers

CAS no. 25952-53-8

EC no. 247-361-2

Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses of the substance or mixture**

Chemical processes general

Uses advised against

No data available.

Details of the supplier: Shimadzu Scientific Instruments, Inc.**Address**

7102 Riverwood Dr.

Columbia, MD 21046

Telephone no. +1 800-477-1227

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Emergency telephone number

+1 800-477-1227

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (USA OSHA HCS) 29CFR1910**

Acute Tox. 4; H302

Eye Irrit. 2; H319

Skin Irrit. 2; H315

Classification information

This product is assessed and classified using the methods and criteria below referred to in Appendix A of Regulation (USA) 27CFR1910.1200. Physical hazards, Health hazards, and Environmental hazards: determined through assessment data based on individual Manufacturer's SDS information as per the methods of Appendix A.

Labelling according to Regulation (USA OSHA) 29CFR1910.1200**Product identifier**

25952-53-8 (N'-(ethylcarbonimidoyl)-N,N-dimethylpropane-1,3-diamine monohydrochloride)

Hazard pictograms

GHS07

Signal word

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statement(s)

P264

Wash skin thoroughly after handling.

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA

P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P362+P364	Take off contaminated clothing and wash it before reuse.

2.2 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances****Chemical characterization**

Substance name	N'-(ethylcarbonimidoyl)-N,N-dimethylpropane-1,3-diamine monohydrochloride
Formula	C ₈ H ₁₇ N ₃ -HCl
Molecular weight	240.8

Identification numbers

CAS no.	25952-53-8
EC no.	247-361-2

3.2 Mixtures

Not applicable. The product is not a mixture.

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

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Keep breathing passages free. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water. Seek medical attention.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Call a doctor immediately. Never give anything by mouth to an unconscious person. If individual is drowsy or unconscious, place in recovery position (on left side, with head down). Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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

Water; Carbon dioxide; Extinguishing powder; Foam

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid dust formation. Keep away sources of ignition. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

For emergency responders

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Avoid the formation and deposition of dust.

General protective and hygiene measures

Avoid contact with eyes and skin. Do not inhale dust. At work do not eat, drink, smoke or take drugs. Keep away from foodstuffs and beverages. Remove soiled or soaked clothing immediately. Clean skin thoroughly after work; apply skin cream. Store work clothing separately. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Keep under inert gas. Store in refrigerator.

Requirements for storage rooms and vessels

Always keep in containers of same material as the original one. Store product in closed containers.

Incompatible products

Do not store together with: oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****Form/Colour**

crystalline powder

white

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA

Odour			
No data available			
Odour threshold			
No data available			
pH value			
Value	6.0	-	8.0
Concentration		50	g/l
Boiling point / boiling range			
No data available			
Melting point / melting range			
Value		115	°C
Decomposition point / decomposition range			
No data available			
Flash point			
No data available			
Auto-ignition temperature			
No data available			
Oxidising properties			
No data available			
Explosive properties			
No data available			
Flammability (solid, gas)			
No data available			
Lower flammability or explosive limits			
No data available			
Upper flammability or explosive limits			
No data available			
Vapour pressure			
Value		133	Pa
Reference temperature		20	°C
Vapour density			
No data available			
Evaporation rate			
No data available			
Relative density			
No data available			
Density			
No data available			
Solubility in water			
Comments	soluble		
Solubility(ies)			
No data available			
Partition coefficient: n-octanol/water			
No data available			
Viscosity			
No data available			

9.2 Other information

Other information
No data available.

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

Dangerous reactions are not expected if the product is handled according to its intended use.

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Protect from humid air and water.

10.5 Incompatible materials

Oxidizing agents; Acids

10.6 Hazardous decomposition productsCarbon monoxide and carbon dioxide; Nitrous oxides (NO_x); Hydrogen chloride (HCl)**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute oral toxicity**

No data available

Acute dermal toxicity

No data available

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Reproduction toxicity

No data available

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Trade name: SialoCapper-ID Kit, Reagent B**Product no.:** 225-42160-58-B**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**Bacteria toxicity**

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This substance is not subject to Part I or 2 of Annex I

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

Trade name: SialoCapper-ID Kit, Reagent B

Product no.: 225-42160-58-B

Current version : 1.1.0, issued: March 23, 2021

Replaced version: 1.0.0, issued: October 06, 2020

Region: USA

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this substance.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (USA) 29CFR1920.1200 and appendices.

Threshold Limit Values as found in component Safety Data Sheets and the NIOSH Pocket Guide.

Date of Issue: October 06, 2020

Trade name: SialoCapper-ID Kit, Reagent C**Product no.:** 225-42160-58-C**Current version :** 1.1.0, issued: March 23, 2021**Replaced version:** 1.0.0, issued: October 06, 2020**Region:** USA**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier****Trade name****SialoCapper-ID Kit, Reagent C****Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses of the substance or mixture**

Chemical processes general

Uses advised against

No data available.

Details of the supplier: Shimadzu Scientific Instruments, Inc.**Address**7102 Riverwood Dr.
Columbia, MD 21046

Telephone no. +1 800-477-1227

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Emergency telephone number

+1 800-477-1227

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (USA OSHA) 29CFR1910.1200**

Eye Dam. 1; H318

Flam. Liq. 3; H226

Skin Irrit. 2; H315

STOT SE 3; H335

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements**Labelling according to Regulation (USA OSHA) 29CFR1910.1200****Hazard pictograms**

GHS02



GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

methylamine

Hazard statement(s)

H226

Flammable liquid and vapour.

H315

Causes skin irritation.

H318

Causes serious eye damage.

H335

May cause respiratory irritation.

Precautionary statement(s)

P210

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

P280

Wear protective gloves/protective clothing/eye protection/face protection.

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P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310

Immediately call a POISON CENTER/doctor.

P370+P378

In case of fire: Use water spray, extinguishing powder, foam or CO2 to extinguish.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (USA) 29CFR1910.1200 Appendix A	Concentration
			%
1	methylamine		
	74-89-5 200-820-0 612-001-00-9 -	Acute Tox. 4*; H332 Eye Dam. 1; H318 Flam. Gas 1; H220 Press. Gas Skin Irrit. 2; H315 STOT SE 3; H335	>= 10.00 - < 25.00 %b.w.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	U	Eye Irrit. 2; H319: C >= 0.5% STOT SE 3; H335: C >= 5% Eye Dam. 1; H318: C >= 5% Skin Irrit. 2; H315: C >= 5%	-	-

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

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Call a doctor immediately.

After skin contact

Wash off immediately with soap and water. Don't use solvents.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

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

Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

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In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Combustion products of this material have to be classed invariably as respiratory poison.

5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Wear protective clothing.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Advice on safe handling**

Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available.

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight. Store in refrigerator. Keep under inert gas.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Incompatible products

Do not store together with foodstuffs. Do not store together with oxidizing agents.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

No parameters available for monitoring.

8.2 Exposure controls**Appropriate engineering controls**

No data available.

Personal protective equipment**Respiratory protection**

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If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour	
liquid	
colourless, clear	
Odour	
characteristic	
Odour threshold	
No data available	
pH value	
No data available	
Boiling point / boiling range	
No data available	
Melting point / melting range	
No data available	
Decomposition point / decomposition range	
No data available	
Flash point	
Value	48.5 °C
Method	closed cup
Reference substance	CAS 74-89-5
Auto-ignition temperature	
No data available	
Oxidising properties	
No data available	
Explosive properties	
No data available	
Flammability (solid, gas)	
No data available	
Lower flammability or explosive limits	
No data available	
Upper flammability or explosive limits	
No data available	
Vapour pressure	
No data available	
Vapour density	
No data available	
Evaporation rate	
No data available	
Relative density	
No data available	

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Density	
No data available	
Solubility in water	
Comments	miscible
Solubility(ies)	
No data available	
Partition coefficient: n-octanol/water	
No data available	
Viscosity	
No data available	

9.2 Other information

Other information	
No data available.	

SECTION 10: Stability and reactivity

- 10.1 Reactivity**
No data available.
- 10.2 Chemical stability**
Stable under recommended storage and handling conditions (See section 7).
- 10.3 Possibility of hazardous reactions**
No data available.
- 10.4 Conditions to avoid**
light; Heat, naked flames and other ignition sources.
- 10.5 Incompatible materials**
Oxidizing agents; Aluminium; Zinc; copper
- 10.6 Hazardous decomposition products**
Carbon monoxide and carbon dioxide; Nitrous oxides (NO_x); Ammonia (NH₃)

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

Acute oral toxicity	
No data available	
Acute dermal toxicity	
No data available	
Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	SialoCapper-ID Kit, Reagent C
Comments	The result of the applied calculation method according to the OSHA (USA) Regulation 29CFR1910.1200, Appendix A, is outside the values that imply a classification / labelling of this mixture according to table A.1.1 defining the respective categories (ATE for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).
Acute inhalational toxicity	
No data available	
Skin corrosion/irritation	
No data available	
Serious eye damage/irritation	
No data available	
Respiratory or skin sensitisation	
No data available	
Germ cell mutagenicity	
No data available	
Reproduction toxicity	
No data available	

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No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12: Ecological information**12.1 Toxicity****Toxicity to fish (acute)**

No data available

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

No data available

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No data available

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information**14.1 Transport ADR/RID/ADN**

Class	3
Classification code	FC
Packing group	II
Hazard identification no.	338
UN number	UN1235
Proper shipping name	METHYLAMINE, AQUEOUS SOLUTION
Tunnel restriction code	D/E
Label	3+8

14.2 Transport IMDG

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Class	3
Subsidiary Risk	8
Packing group	II
UN number	UN1235
Proper shipping name	METHYLAMINE, AQUEOUS SOLUTION
EmS	F-E, S-C
Label	3+8

14.3 Transport ICAO-TI / IATA

Class	3
Subrisk	8
Packing group	II
UN number	UN1235
Proper shipping name	Methylamine, aqueous solution
Label	3+8

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.	No 3, 40
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Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is subject to Part I of Annex I, risk category:	P5c
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Other regulations

Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information**Sources of key data used to compile the data sheet:**

Regulation (USA) 29CFR1920.1200 and appendices.

Threshold Limit Values as found in component Safety Data Sheets and the NIOSH Pocket Guide.

Date of Issue: October 06, 2020