

# Sirius Red Total Collagen Detection Kit

This document contains Safety Data Sheets for the each of the five components included in the Sirius Red Total Collagen Detection Kit. When shipped together as a kit, the following shipping declaration may be used:

UN Number: 3316

**Proper Shipping Name: Chemical kit** 

**Packing Group: III** 

Class: 9



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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: Jan 11, 2024 Revision: Jan 11, 2024

#### 1 Identification

· Product identifier

· Trade name: Standard, Sirius Red Total Collagen Detection Kit

Sirius Red Solution, Sirius Red Total Collagen Detection Kit Washing Solution, Sirius Red Total Collagen Detection Kit 0.5M Acetic Acid, Sirius Red Total Collagen Detection Kit

· Product code:

90621 (Standard)

90622 (Sirius Red Solution)

90623 (Washing Solution)

90625 (0.5M Acetic Acid)

- · Recommended use and restriction on use
- · Recommended use: Laboratory chemicals
- · Restrictions on use: For Research Use Only Not Human or Therapeutic Use
- · Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:

Chondrex, Inc.

16928 Woodinville-Redmond Rd NE Suite B-101

Woodinville, WA 98072

USA

425-702-6365

support@chondrex.com

· Emergency telephone number:

ChemTel LLC

800-255-3924 (North America)

(+1) 813-248-0585 (International)

## 2 Hazard(s) identification

· Classification of the substance or mixture

The product is not classified as hazardous according to the Globally Harmonized System (GHS).

- · Label elements
- · GHS label elements None.
- · Hazard pictograms: None.
- · Signal word: None.
- · Hazard statements: None.
- · Precautionary statements: None.
- · Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

64-19-7 acetic acid

Flam. Liq. 3, H226
Skin Corr. 1A, H314
Acute Tox. 4, H332

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0-5%

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Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements refer to section 16.

#### 4 First-aid measures

- Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Rinse with warm water.

If skin irritation continues, consult a doctor.

· After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

Slight irritant effect on eyes.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

## 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture No relevant information available.
- · Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

For large spills, wear protective clothing.

- · Environmental precautions No special measures required.
- · Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of the collected material according to regulations.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling: Open and handle receptacle with care.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility:

Do not store together with alkalis (caustic solutions).

- · Further information about storage conditions: N/A
- · Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

· Control parameters

Components with limit values that require monitoring at the workplace:			
64-19-7 acetic a	64-19-7 acetic acid		
PEL (USA)	Long-term value: 25 mg/m³, 10 ppm		
REL (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm		
TLV (USA)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm		
EL (Canada)	Short-term value: 15 ppm Long-term value: 10 ppm		
EV (Canada)	Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm		
LMPE (Mexico)	Short-term value: 15 ppm Long-term value: 10 ppm		

- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

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## Safety Data Sheet

## acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

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- · Engineering controls: No relevant information available.
- Breathing equipment:

Not required under normal conditions of use.

Use suitable respiratory protective device when aerosol or mist is formed.

- · Protection of hands: Rubber gloves
- · Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Not required under normal conditions of use.
- · Limitation and supervision of exposure into the environment No special requirements.
- · Risk management measures No special requirements.

Information on basic physical a	and chemical properties
Appearance:	and chemical properties
Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	<7
Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100-102 °C (212-216 °F)
Flash point:	Not applicable.
Flammability (solid, gaseous):	Not applicable.
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits	
Lower:	Not determined.
Upper:	Not determined.
Oxidizing properties:	Non-oxidizing.
Vapor pressure:	Not determined.
Density:	
Relative density:	0.95-1.05
Vapor density:	Not determined.

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**Evaporation rate:** Not determined.

· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

**Dynamic:** Not determined. **Kinematic:** Not determined.

• Other information No relevant information available.

## 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability: Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong alkali.

Reacts with strong oxidizing agents.

- · Conditions to avoid Excessive heat.
- · Incompatible materials No relevant information available.
- · Hazardous decomposition products Possible in traces.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC	C50 values	that are re	levant for c	lassification:

#### ATE (Acute Toxicity Estimates)

 Oral
 LD50
 >5000 mg/kg (rat)

 Inhalative
 LC50/4h
 >100 mg/l (rat)

- · Primary irritant effect:
- · On the skin: Based on available data, the classification criteria are not met.
- · On the eye: Based on available data, the classification criteria are not met.
- · Sensitization: Based on available data, the classification criteria are not met.

#### · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

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· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eve contact.

Skin contact.

- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- · Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- · Additional ecological information
- · General notes:

Negative ecological effects are, according to the current state of knowledge, not expected.

- Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

#### 13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Smaller quantities can be disposed of with household waste.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

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· Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information	
· UN-Number · DOT, ADR, IMDG, IATA	Not regulated.
<ul> <li>UN proper shipping name</li> <li>DOT, ADR, IMDG, IATA</li> </ul>	Not regulated.
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA · Class	Not regulated.
· Packing group · DOT, ADR, IMDG, IATA	Not regulated.
Environmental hazards     Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex II     MARPOL73/78 and the IBC Code	of Not applicable.

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

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· Proposition 65 (California)

· Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision Jan 11, 2024 / -

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxique

vPvB: very Persistent and very Bioaccumulative

NIOSH: l'Institut national de recherche sur la sécurité et la santé au travail / National Institute for Occupational Safety (États-Unis)

OSHA: Occupational Safety & Health Administration

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

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Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by: ChemTel Inc. 1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com



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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: Jan 11, 2024 Revision: Jan 11, 2024

#### 1 Identification

· Product identifier

· Trade name: Extraction Buffer, Sirius Red Total Collagen Detection Kit

· Product code: 90624

· Recommended use and restriction on use

· Recommended use: Laboratory chemicals

· Restrictions on use: For Research Use Only - Not Human or Therapeutic Use

· Details of the supplier of the Safety Data Sheet

· Manufacturer/Supplier:

Chondrex. Inc.

16928 Woodinville-Redmond Rd NE Suite B-101

Woodinville, WA 98072

USA

425-702-6365

support@chondrex.com

Emergency telephone number:

ChemTel LLC

800-255-3924 (North America)

(+1) 813-248-0585 (International)

## 2 Hazard(s) identification

#### · Classification of the substance or mixture

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:



GHS05

· Signal word: Danger

· Hazard statements:

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

· Precautionary statements:

P260 Do not breathe mist/vapors/spray. P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection. P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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1.9-2.1%

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.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Other hazards There are no other hazards not otherwise classified that have been identified.

## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

1310-73-2 sodium hydroxide

Met. Corr.1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318

· Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

For the wording of the listed Hazard Statements refer to section 16.

#### 4 First-aid measures

#### Description of first aid measures

· After inhalation:

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

· After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

Seek immediate medical help for blistering or open wounds.

· After eye contact:

Protect unharmed eye.

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Strong caustic effect on skin and mucous membranes.

Gastric or intestinal disorders when ingested.

Nausea in case of ingestion.

· Danger:

Danger of impaired breathing.

Danger of gastric perforation.

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Safety Data Sheet

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Causes serious eye damage.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

Medical supervision for at least 48 hours.

## 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: None.
- · Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Ensure adequate ventilation.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system

· Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable receptacles.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

- Handling
- Precautions for safe handling:

Prevent formation of aerosols.

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Open and handle receptacle with care.

Avoid contact with the eyes and skin.

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- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles:

Use only receptacles specifically permitted for this substance/product.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

· Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from metals.

Do not store together with acids.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- · Specific end use(s) No relevant information available.

## 8 Exposure controls/personal protection

· Control parameters

	· Components with limit values that require monitoring at the workplace:		
ľ	1310-73-2 sodium hydroxide		
Ī	PEL (USA)	Long-term value: 2 mg/m³	
	REL (USA)	Ceiling limit value: 2 mg/m³	
	TLV (USA)	Ceiling limit value: 2 mg/m³	
	EL (Canada)	Ceiling limit value: 2 mg/m³	
	EV (Canada)	Ceiling limit value: 2 mg/m³	
	LMPE (Mexico)	Ceiling limit value: 2 mg/m³	

- Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- · Breathing equipment:

Use suitable respiratory protective device when aerosol or mist is formed.

For spills, respiratory protection may be advisable.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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 $\cdot$  For the permanent contact gloves made of the following materials are suitable:

Nitrile rubber, NBR

PVC gloves

Neoprene gloves

· Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Alkaline resistant protective clothing
- Limitation and supervision of exposure into the environment No relevant information available.
- · Risk management measures See Section 7 for additional information.

Physical and chemical prope	7.1100	
· Information on basic physical and chemical properties		
Appearance:		
Form:	Liquid	
Color:	Clear to slightly hazy.	
Odor:	Characteristic	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	>12	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	> 100 °C (> 212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not applicable.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Non-oxidizing.	
Vapor pressure:	Not determined.	
Density:		
Relative density:	>1.0	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	



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· Solubility in / Miscibility with

Water: Fully miscible.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity

**Dynamic:** Not determined. **Kinematic:** Not determined.

• Other information No relevant information available.

## 10 Stability and reactivity

- · Reactivity: No relevant information available.
- · Chemical stability:
- Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

· Possibility of hazardous reactions

Exothermic reaction with acids.

Reacts with certain metals.

- · Conditions to avoid Avoid acids.
- · Incompatible materials Strong acids
- · Hazardous decomposition products Possible in traces.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye: Strong caustic effect.
- · Sensitization: No sensitizing effects known.
- · IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Eye contact.

Skin contact.

- · 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.

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- · STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: Based on available data, the classification criteria are not met.
- · Aspiration hazard: Based on available data, the classification criteria are not met.

## 12 Ecological information

- · Toxicity
- · Aquatic toxicity No relevant information available.
- · Persistence and degradability No relevant information available.
- · Bioaccumulative potential: No relevant information available.
- · Mobility in soil: No relevant information available.
- · Ecotoxical effects:
- · Remark: After neutralization, toxicitity cannot be recognized any longer.
- · Additional ecological information
- · General notes:

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment Not applicable.
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No relevant information available.

## 13 Disposal considerations

- Waste treatment methods
- · Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- · Uncleaned packagings
- · **Recommendation:** Disposal must be made according to official regulations.

14 Transport information				
· UN-Number · DOT, ADR, IMDG, IATA	UN1824			
· UN proper shipping name · DOT, IATA	Sodium hydroxide solution			
		(Cont'd. on page 8)		



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# **Safety Data Sheet**

# acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: Jan 11, 2024 Revision: Jan 11, 2024

Trade name: Extraction Buffer, Sirius Red Total Collagen Detection Kit

_		(Cont'd. of page 7)
· ADR, IMDG	SODIUM HYDROXIDE SOLUTION	
· Transport hazard class(es)		
· DOT		
· Class	8 Corrosive substances	
· Label	8	
· ADR		
· Class	8 (C5) Corrosive substances	
· Label	8	
· IMDG, IATA		
· Class	8 Corrosive substances	
· Label	8	
· Packing group · DOT, ADR, IMDG, IATA	III	
<ul> <li>Environmental hazards</li> <li>Marine pollutant:</li> </ul>	No	
· Special precautions for user	Warning: Corrosive substances	
· EMS Number:	F-A,S-B	
· Segregation groups	Alkalis	
<ul> <li>Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code</li> </ul>	of Not applicable.	
· Transport/Additional information:		
Excepted Quantities (EQ) EQ Code: E1 Maximum net quantity per inner packagi Maximum net quantity per outer packagi	ing: 30 mL ing: 1000 mL	
	<del></del>	(Cont'd. on page 9)



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# Safety Data Sheet

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: Jan 11, 2024 Revision: Jan 11, 2024

Trade name: Extraction Buffer, Sirius Red Total Collagen Detection Kit

(Cont'd. of page 8)

· DOT



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· ADR



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

· IMDG



Limited Quantity for packages less than 30 kg gross and inner packagings less than 5 L each.

·IATA



Limited Quantity for packages less than 30 kg gross and inner packagings less than 0.5 L each / 1 L net.

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- ·SARA
- · Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

- · Proposition 65 (California)
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

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# **Safety Data Sheet**

acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 regulations

Printing date: Jan 11, 2024 Revision: Jan 11, 2024

Trade name: Extraction Buffer, Sirius Red Total Collagen Detection Kit

(Cont'd. of page 9)

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency):

None of the ingredients are listed.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· Canadian Domestic Substances List (DSL):

All ingredients are listed.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Date of preparation / last revision Jan 11, 2024 / -

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistant, Bio-accumulable, Toxique

vPvB: very Persistent and very Bioaccumulative

NIOSH: l'Institut national de recherche sur la sécurité et la santé au travail / National Institute for Occupational Safety (États-Unis)

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals - Category 1

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Corr. 1C: Skin corrosion/irritation - Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com