SouthernBiotech ⁻



SECTION 1: Identification of the substance or mixture and of the supplier

GHS Product Identifier	Bovine Type V Collagen-Solution
Other means of identification	N/A
Product type	Liquid
Product code	1280-02S
Chemical formula	Not applicable
CAS No	Not applicable
SDS No.	2233592
Relevant Identified uses of the substance or mixture and uses	
advised against	Not applicable
Supplier's details	Southern Biotechnology Associates, Inc.
	160 Oxmoor Boulevard
	Birmingham, Alabama 35209 USA
	Tel: (205) 945-1774
	Fax: (205) 945-8768
	Website: www.southernbiotech.com
Distributor and Emergency Phone	Refer to website for distributor and emergency phone numbers.
No.	Tel: (205) 945-1774

SECTION 2: Hazards identification

Classification of the substance or mixture

Full text of H-phrases: see section 16

GHS-US classification	
Skin irritation (Cat. 2)	H315
Serious eye damage (Cat. 1)	H318
Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	\mathbf{A}
Not a hazardous substance or mixture	
Signal word (GHS-US)	Warning
Hazard statements (GHS-US)	H315 – Causes skin irritation
	H318 – Causes serious eye damage.
Precautionary statements (GHS-US)	P264 – Wash hands, forearms, and exposed areas thoroughly after handling.
Prevention	P280 – Wear protective gloves/ protective clothing/ eye protection/ face
	protection
	P362 – Take off contaminated clothing and wash before reuse.
Response	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.
	P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
	P310 – Immediately call a POISON CENTER or doctor/ physician.
	P332 + P313 – If skin irritation occurs: Get medical advice/ attention.
Storage	Not applicable
Disposal	P501 – Dispose of contents and container in accordance with all local,
	regional, national, and international regulations.
Other hazards	
Unknown acute toxicity (GHS US)	No data available

Corporate Offices: 160 Oxmoor Blvd • Birmingham, AL 35209 • USA Mailing Address: P.O. Box 26221 • Birmingham, AL 35260 • USA Tel: 205.945.1774 • U.S. and Canada: 800.722.2255 • Fax: 205.945.8768 Email: info@southernbiotech.com • Website: www.southernbiotech.com

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SECTION 3: Composition/information on ingredients

Substance/Mixture	Mixture	
Other Means of Identification	Not available	
CAS Number/other identifiers		
CAS Number	Not applicable	
Ingredient Name	Product Identifier	Percentage
Acetic Acid	(CAS No.) 64-19-7 / [EINECS(EC#)] 232-236-7	3%

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8

SECTION 4: First aid measures

Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
First-aid measures after eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Consult a physician.
First-aid measures after inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Consult a physician.
First-aid measures after skin contact	Flush contaminated skin with plenty of water and soap. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
First-aid measures after ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If necessary, call a poison center.

Most important symptoms and effects, acute and delayed

Potential acute health effects

Eye contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Skin contact	No known significant effects or critical hazards
Ingestion	Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact	No specific data
Inhalation	No specific data
Skin contact	No specific data
Ingestion	No specific data

Indication of any immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large

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Specific treatments Protection of first-aiders					
SECTION 5: Firefighting measu	ures				
Extinguishing media					
Suitable extinguishing media		Use water spray, "alcohol" foam, dry chemical or carbon dioxide None known			
Unsuitable extinguishing media					
Special hazards arising from the substance or mixture		No special hazards determined			
Hazardous thermal decomposition products		No specific data			
Special protective actions for fire-fighters Special protective equipment for fire-fighters		Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.			
		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode			

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures: This product contains a material of biological origin. Use universal precautions during clean up procedures. Avoid breathing (vapor, mist). Use only in a well-ventilated area. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment, see section 8.

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non- emergency personnel".

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and material for containment and cleaning up

Small spill: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Comply with applicable waste disposal regulations.

Large spill: As a precautionary measure, treat spilled material with a 1:10 bleach/water solution. Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

Reference to other sections

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See Section 1 for emergency contact information, Section 13 for waste disposal, and Section 8 for exposure controls and personal protection.

SECTION 7: Handling and storage

Precautions for safe handling

Precautions for safe handling: This product should be handled as though capable of transmitting infectious diseases. Universal precautions should be followed when using this product. Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Hygiene measures: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Technical measures: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Recommended storage temperature: 2 - 8°C

SECTION 8: Exposure controls/personal protection

Control parameters

Component	CAS-No.	Value	Control parameters	Basis
Acetic Acid	64-19-7	TWA	25 mg/m3	USA NIOSH
			25 mg/m3	USA OSHA
		STEL	37 mg/m3	USA NIOSH

Exposure controls

Appropriate engineering controls

Environmental exposure controls

Personal protective equipment

Hand protection

Body protection

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.
Do no let product enter drains.
Protective goggles, gloves
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer

this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Impervious clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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Other skin protection	Appropriate footwear and any addi selected based on the task being po be approved by a specialist before	erformed and the risks invol	
Eye protection	Safety eyewear complying with an a risk assessment indicates this is new mists, gases or dusts. If contact is p worn, unless the assessment indica glasses with side-shields.	cessary to avoid exposure to oossible, the following prote	liquid splashes, ection should be
Respiratory protection	Where risk assessment shows air-p face respirator with multi- purpose respirator cartridges as a backup to sole means of protection, use a full and components tested and approv such as NIOSH (US) or CEN (EU).	combination (US) or type AB engineering controls. If the face supplied air respirator.	BEK (EN 14387) respirator is the Use respirators
Conditions to avoid	No specific data		
Incompatible materials	No specific data		
Hazardous decomposition products	Under normal conditions of storage products should not be produced.		
Other information	When using, do not eat, drink, or sr	noke. Contains material of	human origin.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance		
Physical state	:	Liquid
Color	:	Clear
Odor	:	Vinegar-like
Odor threshold	:	Not available
рН	:	Not available
Melting point	:	Not available
Boiling point	:	Not available
Flash Point	:	Not available
Burning time	:	Not applicable
Burning rate	:	Not applicable
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available
Lower and upper explosive (flammable)	:	Not available
limits		
Vapor pressure	:	Not available
Vapor density	:	Not available
Relative density	:	Not available
Solubility	:	Soluble in the following materials: cold water and hot water.
Partition coefficient n-octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
SADT	:	Not available
Viscosity	:	Not available
Other information		
No additional information available		

No additional information available

SECTION 10: Stability and reactivity

Reactivity	No specific test data related to reactivity available for this product or its ingredients. This material is hydroscopic.
Chemical Stability	The product is stable under recommended storage conditions.
Possibility Of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions To Avoid	No specific data
Incompatible Materials	Strong oxidizers (especially chromic acid, sodium peroxide, & nitric acid), strong caustics

Hazardous Decomposition Products No specific data

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity	No data available
Conclusion/Summary:	To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.
Skin corrosion/irritation: Serious eye damage/irritation: Respiratory or skin sensitization: Germ cell mutagenicity:	No data available No data available No data available No data available

Carcinogenicity:

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.		
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
Reproductive toxicity:No data availableTeratogenicity:No data availableSpecific target organ toxicity (single exposure):No data availableSpecific target organ toxicity (repeated exposure):No data available			
Aspiration hazard: No data available			
Information or	the likely routes of exposure: Routes of entry anticipated: Oral, Dermal, and Inhalation.		
Potential acute	e health effects		
Eye contact:	No known significant effects or critical hazards		
Inhalation:	No known significant effects or critical hazards.		
Skin contact:	No known significant effects or critical hazards.		
Ingestion: Harmful if swallowed. Symptoms related to the physical, chemical and toxicological characteristics			
	-		

- Eye contact: No specific data
- Inhalation: No specific data
- Skin contact: No specific data
- Ingestion: No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available

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Potential delayed effects:	Not available		
Long term exposure			
Potential immediate effect	cts: Not available		
Potential delayed effects:	Not available		
Potentialchronichealtheffects: Not available			
General:	No known significant effects or critical hazards.		
Carcinogenicity:	No known significant effects or critical hazards.		
Mutagenicity:	No known significant effects or critical hazards.		
Teratogenicity:	No known significant effects or critical hazards.		
Developmental effects:	No known significant effects or critical hazards.		
Fertility effects:	No known significant effects or critical hazards.		
Numerical measures of to	oxicity		
Acute toxicity estimates			
Not available.			

SECTION 12: Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

SECTION 13: Disposal considerations

Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any byproducts should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	DOT	ΙΑΤΑ
	Classification	
UN number	Not regulated	Not regulated
UN proper	-	-
Transport hazard class(es)	-	-
Packing group	-	-
Environmental hazards	No	No
Additional information	-	-

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Special precautions for user: Transport within users premises always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information		
U.S. Federal regulations	TSCA: All components are listed or exempted. Clean Water Act (CWA) 311: All components are listed or exempted.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	•	
Clean Air Act Section 602 Class I Substances	Not listed	
Clean Air Act Section 602 Class II Substances	Not listed	
DEA List I Chemicals (Precursor Chemicals)	Not listed	
DEA List II Chemicals (Essential Chemicals)	Not listed	

SARA 302/304

Composition/informationoningredients

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313

State regulations	
New Jersey	
Acetic Acid	64-19-7
New York	
Acetic Acid	64-19-7
Massachusetts	
Acetic Acid	64-19-7
Pennsylvania	
Acetic Acid	64-19-7
California	
Acetic Acid	64-19-7
Minnesota	
Acetic Acid	64-19-7
Rhode Island	
Acetic Acid	64-19-7
Canada inventory	All components a

All components are listed or exempted.

International regulations

internationalieguie			
International lists	Australia inventory (AICS): All componer	nts are listed or exempted.	
	China inventory (IECSC): All components are listed or exempted.		
	Japan inventory: All components are listed or exempted.		
Korea inventory: All components are listed or exempted.			
	Malaysia Inventory (EHS Register): All co	omponents are listed or exempted.	
New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.			
Philippines inventory (PICCS): All components are listed or exempted.			
Taiwan inventory (CSNN): All components are listed or exempted.			
Chemical Weapons	Convention List Schedule I	Not listed	
Chemical Weapons	Convention List Schedule II Chemicals	Not listed	
Chemical Weapons	Convention List Schedule III Chemicals	Not listed	

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Indication of chan Other information	 s : 30-Apr-15 : This document has been prepared in accordance with the SDS requirements of the O 	
	Hazard Communication Standard 29 CFR 1910.1200.	
GHS Full Text Phra	-	
	- Causes skin irritation	
	B – Causes serious eye damage.	
	4 – Wash hands, forearms, and exposed areas thoroughly after handling.	
) – Wear protective gloves/ protective clothing/ eye protection/ face protection	
	2 – Take off contaminated clothing and wash before reuse.	
	2 – IF ON SKIN: Wash with plenty of soap and water.	
P305 + P351 + P3	P305 + P351 + P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and ea do. Continue rinsing.	
D		
	2 – Call a POISON CENTER or doctor/physician if you feel unwell.) – Immediately call a POISON CENTER or doctor/ physician.	
	B – If skin irritation occurs: Get medical advice/ attention.	
	L – Dispose of contents and container in accordance with all local, regional, national, and international regulations.	
NFPA health	3 - Corrosive or toxic. Avoid skin contact or inhalation	
NFPA fire hazard	0 - Not combustible	
NFPA reactivity	0 - Not reactive when mixed with water	
HMIS III Rating		
Health	3- Serious Hazard	
incurrin	•	

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SDS US (GHS HazCom) - US Only

: 0 - Minimal Hazard

: 0 - Minimal Hazard

Flammability

Physical