

RAG3001 Restor-A-Gel Copper 30ml Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
	: Mixture
Product name	: RAG3001 Restor-A-Gel Copper 30ml
Product code	: RAG3001
1.2. Recommended use and restrictions of	on use
Use of the substance/mixture	: Laboratory chemical
1.3. Supplier	
SIRCHIE 100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-2266; http://www.sirchie.com	800-899-8181
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300 (USA) +1-703-527-3887 (INTL) CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	xture
GHS US classification	
Skin corrosion/irritation H315	Causes skin irritation
Category 2 Serious eye damage/eye H318	Causes serious eye damage
irritation Category 1 Full text of H statements : see section 16	
Tuintext of H statements . see section To	
2.2. GHS Label elements, including preca	utionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
-	 H315 - Causes skin irritation H318 - Causes serious eye damage
Precautionary statements (GHS US)	 P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - If on skin: Wash with plenty of 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. P310 - Immediately call a poison center or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P332+P313 - If skin irritation occurs: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.
2.3. Other hazards which do not result in	classification
Other hazards not contributing to the classification	: None under normal conditions.
2.4. Unknown acute toxicity (GHS US)	
Not applicable	
SECTION 3: Composition/Information	on ingredients
3.1. Substances	
Not applicable	
3.2. Mixtures	

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Name	Product identifier	%	GHS US classification
iron(III) chloride	(CAS-No.) 7705-08-0	< 40	Skin Irrit. 2, H315 Eve Dam. 1. H318
silicon dioxide, amorphous	(CAS-No.) 7631-86-9	>= 2	Not classified

Full text of hazard classes and H-statements : see section 16

advice (show the label when First-aid measures after inhalation : Allow affected person to bread First-aid measures after skin contact : Remove affected clothing and by warm water rinse. First-aid measures after eye contact : Rinse immediately with plent persists. First-aid measures after ingestion : Rinse mouth. Do NOT induct 4.2. Most important symptoms and effects (acute and delayed) Potential Adverse human health effects and symptoms : Based on available data, the symptoms	aathe fresh air. Allow the victim to rest. Ind wash all exposed skin area with mild soap and water, followed Inty of water. Obtain medical attention if pain, blinking or redness ice vomiting. Obtain emergency medical attention. I classification criteria are not met. I classificant hazard under anticipated conditions of normal use. I dioxide. Water spray. Sand.
First-aid measures general : Never give anything by mou advice (show the label when advice (show the label when advice (show the label when itst-aid measures after inhalation : Allow affected person to bree itst-aid measures after skin contact First-aid measures after skin contact : Remove affected clothing a by warm water rinse. First-aid measures after eye contact : Rinse immediately with pler persists. First-aid measures after ingestion : Rinse mouth. Do NOT induce 4.2. Most important symptoms and effects (acute and delayed) Potential Adverse human health effects and symptoms : Based on available data, the Symptoms/effects : Not expected to present a s 4.3. Immediate medical attention and special treatment, if necessary No additional information available Secction 5: Fire-fighting measures 5.1. Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon	re possible). eathe fresh air. Allow the victim to rest. nd wash all exposed skin area with mild soap and water, followed hty of water. Obtain medical attention if pain, blinking or redness ce vomiting. Obtain emergency medical attention. e classification criteria are not met. ignificant hazard under anticipated conditions of normal use. dioxide. Water spray. Sand.
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Suitable (and unsuitable) extinguishing media Suitable extinguishing media : Foam. Dry powder. Carbon	
Unsuitable extinguishing media : Do not use a heavy water s	tream.
5.2. Specific hazards arising from the chemical	
· · · · ·	han the effects described in sub-sections below.
5.3. Special protective equipment and precautions for fire-fighters	
Firefighting instructions : Use water spray or fog for c	cooling exposed containers. Exercise caution when fighting any ghting water from entering environment.
Protection during firefighting : Do not enter fire area without	ut proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and emergency proc	edures
6.1.1. For non-emergency personnel	
Emergency procedures : Evacuate unnecessary pers	sonnel.
6.1.2 For emergency responders	
6.1.2. For emergency responders Protective equipment : Equip cleanup crew with pro	oper protection
Emergency procedures : Ventilate area.	
6.2. Environmental precautions Prevent entry to sewers and public waters. Notify authorities if liquid enters sewer	ers or public waters
6.3. Methods and material for containment and cleaning up	
spillage. Store away from of	ids, such as clay or diatomaceous earth as soon as possible. Collect ther materials.
6.4. Reference to other sections	
See Heading 8. Exposure controls and personal protection.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling : Wash hands and other expo smoking and when leaving of vapor.	osed areas with mild soap and water before eating, drinking or work. Provide good ventilation in process area to prevent formation

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7.2. Condit	tions for safe storage, including	any incompatibilities
Storage condition	าร	: Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.
Incompatible pro	ducts	: Strong bases. Strong acids.
Incompatible mat	terials	: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters iron(III) chloride (7705-08-0) ACGIH ACGIH TWA (mg/m³) 1 mg/m³ silicon dioxide, amorphous (7631-86-9) Not applicable Vertical and the second se

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure. Gas mask. Gloves. Safety glasses.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical	properties
9.1. Information on basic physical and o	hemical properties
Physical state	: Liquid
Appearance	: Liquid.
Color	: Light yellow to brown
Odor	: characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available

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Relative vapor	density at 20 °C	:	No data available
Relative densit	у	:	No data available
Solubility		:	Soluble in water.
Log Pow		:	No data available
Auto-ignition te	emperature	:	No data available
Decomposition	temperature	:	No data available
Viscosity, kiner	matic	:	No data available
Viscosity, dyna	imic	:	No data available
Explosion limits	5	:	No data available
Explosive prop	erties	:	No data available
Oxidizing prop	erties	:	No data available
9.2. Othe	er information		

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
No reactivity hazard other than the effects descri	bed in sub-sections below.
10.2. Chemical stability	
Stable under recommended handling and storag	e conditions (see section 7).
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperature	/es
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
fume. Carbon monoxide. Carbon dioxide.	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
iron(III) chloride (7705-08-0)	
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female,
	Read-across, Dermal, 14 day(s))
LC50 inhalation rat (mg/l)	> 1.1 mg/l (EPA OPP 81-3: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Read-across, Inhalation)
silicon dioxide, amorphous (7631-86-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	<pre>> 5000 mg/kg (Rabbit, Dermal)</pre>
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	: No data available
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.

Develotonee and deavedebility

12.1. Toxicity

40.0

silicon dioxide, amorphous (7631-86-9)	
LC50 fish 1	> 10000 mg/l (96 h, Brachydanio rerio, Literature)
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna, Literature)

12.2. Persistence and degradability	
RAG3001 Restor-A-Gel Copper 30ml	
Persistence and degradability	Not established.
iron(III) chloride (7705-08-0)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
silicon dioxide, amorphous (7631-86-9)	
Persistence and degradability	Biodegradability in soil: not applicable. Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

12.3. **Bioaccumulative potential** RAG3001 Restor-A-Gel Copper 30ml Bioaccumulative potential Not established. iron(III) chloride (7705-08-0) BCF fish 1 < 20 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Cyprinus carpio, Flowthrough system, Fresh water, Read-across) Bioaccumulative potential Low potential for bioaccumulation (BCF < 500). silicon dioxide, amorphous (7631-86-9) Bioaccumulative potential Not bioaccumulative. 12.4. **Mobility in soil** iron(III) chloride (7705-08-0) 1.1116 6.41 1. . ما با ما : م - -

silicon dioxide, amorphous (7631-86-9)	
Ecology - soil No	o (test)data on mobility of the substance available.

12.5. Other adverse effects

Other information

: Avoid release to the environment.

SECTION 13: Disposal consideration	IS
13.1. Disposal methods	
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
SECTION 14: Transport information	

: UN2582 Ferric Chloride Solution (CORROSIVE), 8, III

Transport document description

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UN-No.(DOT)	: UN2582
Proper Shipping Name (DOT)	: Ferric Chloride Solution
	CORROSIVE
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive
	CORROSIVE

Other information

: No supplementary information available.

8

Transportation of Dangerous Goods

Transport by sea

Air transport

Transport document description (IATA)	: UN UN2582 Ferric chloride Solution, 8, III
UN-No. (IATA)	: UN2582
Proper Shipping Name (IATA)	: Ferric chloride Solution
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

RAG3001 Restor-A-Gel Copper 30ml

Subject to reporting requirements of United States SARA Section 313 Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

RAG3001 Restor-A-Gel Copper 30ml

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTION 16: Other information

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Data sources	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
Training advice	: Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other information	: This Safety Data Sheet has been established in accordance with the applicable European Union legislation.

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Full text of H-phrases:

Full lext of H-phrases.	
H315	Causes skin irritation
H318	Causes serious eye damage
NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	 O - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment i given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NO react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: G
	G - Safety glasses, Gloves, Vapor respirator

SDS US (GHS HazCom 2012)

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.