

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification

Identification

Product form : Mixture

Product name : RAG2001 Restor-A-Gel Aluminum 30ml

Product code RAG2001

Recommended use and restrictions on use

Use of the substance/mixture : Laboratory chemical

Supplier

SIRCHIE

100 Hunter Place

Youngsville, NC 27596 - USA

T 919-554-2244; 800-356-7311 - F 919-554-2266; 800-899-8181

http://www.sirchie.com

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

Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation H315 Causes skin irritation

Category 2

Serious eye damage/eye H319 Causes serious eye irritation

irritation Category 2

Reproductive toxicity H361 Suspected of damaging fertility or the unborn child

Category 2

Full text of H statements: see section 16

GHS Label elements, including precautionary statements 2.2.

GHS US labeling

Hazard pictograms (GHS US)





Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

: P201 - Obtain special instructions before use. Precautionary statements (GHS US)

P202 - Do not handle until all safety precautions have been read and understood.

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.

P308+P313 - If exposed or concerned: Get medical advice/attention.

P321 - Specific treatment (see supplemental first aid instruction on this label).

P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P362+P364 - Take off contaminated clothing and wash it before reuse.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

Other hazards which do not result in classification

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
silicon dioxide, amorphous	(CAS-No.) 7631-86-9	<= 2	Not classified
hydrochloric acid	(CAS-No.) 7647-01-0	1.1	Skin Corr. 1A, H314
mercury dichloride	(CAS-No.) 7487-94-7	< 1	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Skin Corr. 1B, H314 Muta. 2, H341 Repr. 2, H361 STOT RE 1, H372

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

No additional information available

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

No additional information available

5.2. Specific hazards arising from the chemical

Reactivity : No data available.

5.3. Special protective equipment and precautions for fire-fighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

mercury dichloride (7487-94-7)			
ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³	
silicon dioxide, amorphous (silicon dioxide, amorphous (7631-86-9)		
Not applicable			
hydrochloric acid (7647-01-0)		
ACGIH	ACGIH TWA (mg/m³)	2.98 mg/m³	
ACGIH	ACGIH TWA (ppm)	2 ppm	
OSHA	OSHA PEL (TWA) (mg/m³)	7 mg/m³	
OSHA	OSHA PEL (TWA) (ppm)	5 ppm	
IDLH	US IDLH (ppm)	50 ppm	
NIOSH	NIOSH REL (TWA) (mg/m³)	7 mg/m³	
NIOSH	NIOSH REL (TWA) (ppm)	5 ppm	

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Gas mask. Gloves. Safety glasses.

Personal protective equipment symbol(s):



Flash point



Relative evaporation rate (butyl acetate=1)



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Clear, colorless liquid.

Color : Colorless

Odor : Irritating/pungent odour
Odor threshold : No data available
pH : No data available
Melting point : No data available
Freezing point : No data available
Boiling point : No data available
Boiling point : No data available

Flammability (solid, gas) : No data available
Vapor pressure : No data available
Relative vapor density at 20 °C : No data available
Relative density : No data available
Solubility : Insoluble in water.
Log Pow : No data available
Auto-ignition temperature : No data available

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: No data available

: No data available

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Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosion limits : No data available Explosive properties : No data available Oxidizing properties : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

metals. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

mercury dichloride (7487-94-7)	
LD50 oral rat	1 mg/kg (Rat, Oral)
LD50 dermal rat	41 mg/kg (Rat, Dermal)
ATE US (oral)	1 mg/kg body weight
ATE US (dermal)	41 mg/kg body weight

, ,	
silicon dioxide, amorphous (7631-86-9)	
LD50 oral rat	> 10000 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 5000 mg/kg (Rabbit, Dermal)

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

mercury dichloride (7487-94-7)	
STOT-repeated exposure Cause	s damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

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SECTION 12: Ecological information

12.1. Toxicity

mercury dichloride (7487-94-7)		
LC50 fish 1	0.03 mg/l (96 h, Poecilia reticulata)	
EC50 Daphnia 1	0.003 mg/l (48 h, Daphnia magna)	
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

mercury dichloride (7487-94-7)		
Persistence and degradability	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)	
hydrochloric acid (7647-01-0)		
Persistence and degradability	Biodegradability: not applicable.	

12.3. Bioaccumulative potential

mercury dichloride (7487-94-7)		
BCF fish 1	10000 (Pisces)	
BCF fish 2	500 - 4620 (Cyprinus carpio, Test duration: 10 weeks)	
BCF other aquatic organisms 1	10000 (Ostreidae)	
Log Pow	0.1 - 0.22 (Calculated)	
Bioaccumulative potential	Potential for bioaccumulation (500 ≤ BCF ≤ 5000).	
silicon dioxide, amorphous (7631-86-9)		
Bioaccumulative potential	Not bioaccumulative.	
hydrochloric acid (7647-01-0)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	

12.4. Mobility in soil

mercury dichloride (7487-94-7)		
Ecology - soil	No (test)data on mobility of the substance available.	
silicon dioxide, amorphous (7631-86-9)		
Ecology - soil	No (test)data on mobility of the substance available.	
hydrochloric acid (7647-01-0)		
Ecology - soil	No (test)data on mobility of the components available. May be harmful to plant growth, blooming and fruit formation.	

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

No additional information available

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SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN1624 Mercuric chloride (TOXIC), 6.1, II

UN-No.(DOT) : UN1624

Proper Shipping Name (DOT) : Mercuric chloride

TOXIC

Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132

Packing group (DOT) : II - Medium Danger Hazard labels (DOT) : 6.1 - Poison



Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Air transport

Transport document description (IATA) : UN UN1624 Mercuric chloride, 6.1, II, ENVIRONMENTALLY HAZARDOUS

UN-No. (IATA) : UN1624

Proper Shipping Name (IATA) : Mercuric chloride

Class (IATA) : 6.1 - Toxic Substances

Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

RAG2001 Restor-A-Gel Aluminum 30ml

Subject to reporting requirements of United States SARA Section 313

15.2. International regulations

CANADA

No additional information available

EU-Regulations

RAG2001 Restor-A-Gel Aluminum 30ml

Listed on ELINCS (European List of Notified Chemical Substances)

National regulations

No additional information available

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15.3. US State regulations

RAG2001 Restor-A-Gel Aluminum 30ml	
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No

SECTION 16: Other information

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REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE Data sources

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.

Full text of H-phrases:

<u> </u>	
H300	Fatal if swallowed
H310	Fatal in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation
H341	Suspected of causing genetic defects
H361	Suspected of damaging fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause

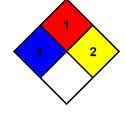
serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can

occur.

NFPA reactivity : 2 - Materials that readily undergo violent chemical change

at elevated temperatures and pressures.



Hazard Rating

Physical

Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is

given

Flammability 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,

solids and semi solids having a flash point above 200 F. (Class IIIB)

: 2 Moderate Hazard - Materials that are unstable and may undergo violent chemical changes at normal temperature and pressure with low risk for explosion. Materials may react violently with

water or form peroxides upon exposure to air.

Personal protection

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

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