

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

### **SECTION 1: Identification**

Identification

Product form : Mixture

Product name : RAG200 Restor-A-Gel Aluminum

Product code RAG200

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

**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

Full text of H statements: see section 16

### GHS Label elements, including precautionary statements

### **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

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.

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.

### Other hazards which do not result in classification

No additional information available

#### 2.4. **Unknown acute toxicity (GHS US)**

Not applicable

# **SECTION 3: Composition/Information on ingredients**

#### 3.1. **Substances**

Not applicable

#### 3.2. **Mixtures**

03/19/2020 EN (English US) Page 1

# Safety Data Sheet

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

Name	Product identifier	%	GHS US classification
AQUA	(CAS-No.) 7732-18-5	< 98	Not classified
silicon dioxide, amorphous	(CAS-No.) 7631-86-9	<= 2	Not classified
hydrochloric acid	(CAS-No.) 7647-01-0	1.1	Skin Corr. 1A, H314

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

# SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

silicon dioxide, amorphous (7631-86-9)	
Not applicable	
AQUA (7732-18-5)	
Not applicable	
hydrochloric acid (7647-01-0)	

hydrochloric acid (7647-01-0	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	

03/19/2020 EN (English US) 2/7

# Safety Data Sheet

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

hydrochloric acid (7647-01-0)		
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):







### 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

рΗ : No data available : No data available Melting point 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) : 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
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.

03/19/2020 EN (English US) 3/7

# Safety Data Sheet

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

### 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

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 : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

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

# **SECTION 12: Ecological information**

### 12.1. Toxicity

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

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

silicon dioxide, amorphous (7631-86-9)	
Bioaccumulative potential	Not bioaccumulative.

03/19/2020 EN (English US) 4/7

# Safety Data Sheet

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

hydrochloric acid (7647-01-0)		
Bioaccumulative potential	Does not contain bioaccumulative component(s).	
12.4. Mobility in soil		
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

# **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

# RAG200 Restor-A-Gel Aluminum

Subject to reporting requirements of United States SARA Section 313

03/19/2020 EN (English US) 5/7

# Safety Data Sheet

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

### 15.2. International regulations

#### **CANADA**

No additional information available

### **EU-Regulations**

### **RAG200 Restor-A-Gel Aluminum**

Listed on ELINCS (European List of Notified Chemical Substances)

### **National regulations**

No additional information available

### 15.3. US State regulations

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RAG200 Restor-A-Gel Aluminum	
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**

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

: 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.

# Full text of H-phrases:

Data sources

H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H319	Causes serious eye irritation

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

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

NFPA reactivity 2 - Materials that readily undergo violent chemical change at elevated temperatures and pressures.

Hazard Rating

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

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)

Physical : 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

03/19/2020 EN (English US) 6/7

# Safety Data Sheet

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

SDS US (GHS HazCom 2012)

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03/19/2020 EN (English US) 7/7