

RAG5004 Metal Surfacing Solution, Aluminum Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Product name	: RAG5004 Metal Surfacing Solution, Aluminum
Product code	: RAG5004
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
No additional information available	
1.3. Details of the supplier of the safety	data sheet
SIRCHIE 100 Hunter Place Youngsville, NC 27596 - USA T 919-554-2244; 800-356-7311 - F 919-554-226 <u>http://www.sirchie.com</u>	36; 800-899-8181
1.4. Emergency telephone number	
Emergency number	: 1.800.424.9300 CHEMTREC: 1.800.424.9300
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or r	nixture
GHS-US classification	
Skin corrosion/irritation Category 2 H315	
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin 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/ P321 - Specific treatment (see 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	
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 on ingredients
3.1. Substance	
Not applicable	
3.2. Mixture	

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Name	Product identifier	%	GHS-US classification
acetic acid	(CAS No) 64-19-7	4 - 8	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Full text of H-phrases: see section 16			
SECTION 4: First aid measures			
4.1. Description of first aid measu	res		
First-aid measures general	: Never give anything by mouth to ar advice (show the label where possi		If you feel unwell, seek medical
First-aid measures after inhalation	: Allow victim to breathe fresh air. All	ow the victim to rest.	
First-aid measures after skin contact	: Remove affected clothing and wash by warm water rinse.	n all exposed skin area	a with mild soap and water, followed
First-aid measures after eye contact	: Rinse immediately with plenty of war persist.	ater. Obtain medical at	tention if pain, blinking or redness
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomi	ting. Obtain emergenc	y medical attention.
	d effects, both acute and delayed		
Symptoms/injuries	: Not expected to present a significant	nt hazard under anticip	pated conditions of normal use.
	nedical attention and special treatment nee	ded	
No additional information available			
SECTION 5: Firefighting measu	res		
5.1. Extinguishing media			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide	. Water spray. Sand.	
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from t			
Reactivity	: No data available.		
5.3. Advice for firefighters		-	and a second second second second second
Firefighting instructions	: Use water spray or fog for cooling e chemical fire. Prevent fire-fighting v		
Protection during firefighting	: Do not enter fire area without prope	-	
SECTION 6: Accidental release	measures		
	ive equipment and emergency procedures		
6.1.1. For non-emergency personne	1		
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper pro	tection.	
Emergency procedures	: Ventilate area.		
6.2. Environmental precautions			
· · · · · · · · · · · · · · · · · · ·	. Notify authorities if liquid enters sewers or pu	ublic waters.	
6.3. Methods and material for con	tainment and cleaning up		
Methods for cleaning up	: Soak up spills with inert solids, such spillage. Store away from other main spillage.	•	ous earth as soon as possible. Collec
6.4. Reference to other sections			
See Heading 8. Exposure controls and pe	rsonal protection.		
SECTION 7: Handling and stora	ige		
7.1. Precautions for safe handling			
Precautions for safe handling	: Wash hands and other exposed are		l water before eating, drinking or in process area to prevent formation
7.2. Conditions for safe storage, in	ncluding any incompatibilities		
Storage conditions	: Keep only in the original container i closed when not in use.	n a cool, well ventilate	d place away from : Keep container

Incompatible products : Strong bases. Strong acids.

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Incompatible materials

: Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
acetic acid (64-19-7)			
ACGIH	ACGIH TWA (ppm)	10 ppm (Acetic acid; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)	
ACGIH	ACGIH STEL (ppm)	15 ppm (Acetic acid; USA; Short time value; TLV - Adopted Value)	

8.2. Exposure controls	
Personal protective equipment	: Gas mask. Gloves. Safety glasses.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.
SECTION 9: Physical and ch	emical properties
9.1. Information on basic phys	ical and chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Colorless
Odor	: odorless
Odor threshold	: No data available

Odor threshold	: No data available
рН	: 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)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Solubility	: Soluble in water. Water: Solubility in water of component(s) of the mixture : • acetic acid: Complete
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

No additional information available

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SECTION 10: Stability and reactivity			
10.1.	Reactivity		
No data	available.		
10.2.	Chemical stability		
Stable u	nder normal conditions.		
10.3.	Possibility of hazardous reactions		
Not established.			
10.4.	Conditions to avoid		
Direct sunlight. Extremely high or low temperatures.			
10.5.	Incompatible materials		
Strong acids. Strong bases.			
10.6.	Hazardous decomposition products		
fume. Carbon monoxide. Carbon dioxide.			

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg body weight (Rat; Other; Read-across)
ATE US (oral)	3310.000 mg/kg body weight
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
	Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
	Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

 12.2. Persistence and degradability

 RAG5004 Metal Surfacing Solution, Aluminum

 Persistence and degradability
 Not established.

 acetic acid (64-19-7)

 Persistence and degradability
 Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil.

 Biochemical oxygen demand (BOD)
 0.6 - 0.74 g O₂/g substance

 Chemical oxygen demand (COD)
 1.03 g O₂/g substance

 ThOD
 1.07 g O₂/g substance

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RAG5004 Metal Surfacing Solution, Alu	
Bioaccumulative potential	Not established.
acetic acid (64-19-7)	
BCF fish 1	3.16 (BCF; Pisces)
Log Pow	-0.17 (Experimental value; 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
2.4. Mobility in soil	
acetic acid (64-19-7)	
Surface tension	0.028 N/m (20 °C)
Log Koc	log Koc,0.06; QSAR
Ecology - soil	May be harmful to plant growth, blooming and fruit formation.
2.5. Other adverse effects	
ffect on the global warming	: No known ecological damage caused by this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal considera	ntions
3.1. Waste treatment methods	
Vaste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
cology - waste materials	: Avoid release to the environment.
SECTION 14: Transport informat	ion
Department of Transportation (DOT)	
n accordance with DOT	
lot regulated for transport	
DG	
lo additional information available	
ransport by sea	
lo additional information available	
in the second	
Nir transport	
lo additional information available	
SECTION 15: Regulatory informa	ition
5.1. US Federal regulations	
lo additional information available	
5.2. International regulations	
CANADA	
lo additional information available	
U-Regulations Io additional information available	
lational regulations	
lo additional information available	
5.3. US State regulations	
lo additional information available	

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SECTION 16: Other information	
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.

Full text of H-phrases:

	H226	Flammable liquid and vapor
	H314	Causes severe skin burns and eye damage
	H315	Causes skin irritation
NFPA I	nealth hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
NFPA f	ire hazard	: 0 - Materials that will not burn.
NFPA ı	reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS I	II Rating	
Health		: 1 Slight Hazard - Irritation or minor reversible injury possible
Flamma	ability	: 0 Minimal Hazard - Materials that will not burn
Physica	al	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

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.