



# SAFETY DATA SHEET

## 1. Identification

**Product Identifier**                      **Acid Rinse Aid**

**Other means of identification**

**Product code**                      CU-5427

**Recommended use**                      Rinse aid for automatic machines.

**Recommended restrictions**              None.

**Manufacturer/supplier/distributor/importer information**

**Company name**                      **Chemical Universe, Inc.**

**Address**                              1133 Saline Street  
   North Kansas City, MO 64116

**Telephone**                              (816) 471-3602

**Fax**                                        (816) 474-3302

**Emergency phone number**              PERS 24-hour Emergency    (800) 633-8253

## 2. Hazard(s) Identification

**Physical hazards**                      Not classified.

**Health hazards**                      Skin Irritant                      Category 2  
   Eye Irritant                      Category 2B

**Environmental hazards**              Not classified.

**OSHA defined hazards**              Not listed.

**Label elements**                      None.

**Signal word**                      **WARNING**

**Hazard statement**                      Causes skin irritation.  
   Causes eye irritation.

**Precautionary statement**

**Prevention**                      Wash hands and exposed skin thoroughly after handling. Wear protective gloves.

**Response**                      **IF ON SKIN:** Wash with plenty water. Specific treatment (see Section 4 on the Safety Data Sheet) If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing before reuse.  
   **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Storage**                              No prescriptive instruction

**Disposal**                              No prescriptive instruction

**Hazard(s) not otherwise classified (HNOC)**              None.

**Supplemental information**              None.

## 3. Composition/information on ingredients

Mixture Component(s)		
Chemical name	CAS number	%
Polyoxypropylene-polyoxyethylene block copolymer	9003-11-6	10-15
Glycolic acid	79-14-1	1-5
Other components below reportable levels		80-89

## 4. First-aid measures

**Inhalation**                              Move to fresh air if irritated.



## SAFETY DATA SHEET

<b>Skin contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Dermatitis. Rash.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.
<b>Methods and materials for containment and cleaning up</b>	<p>Caution – spillages may be slippery.</p> <p>Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.</p> <p>Small spills: Wipe up with absorbent material (e.g. cloth, absorbent wipes). Clean surface thoroughly with water and dilute bicarbonate solution to remove residual contamination.</p> <p>Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.</p>
<b>Environmental precautions</b>	Avoid discharge into surface drainage paths and other areas not consistent with package labeling.

### 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eye. Avoid prolonged exposure. Observe good industrial hygiene practices.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in original tightly closed container. Do not store in extreme temperature conditions.



## SAFETY DATA SHEET

### 8. Exposure controls/personal protection

#### Occupational exposure limits

##### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethylene oxide	PEL/WEL	1 mg/m <sup>3</sup>
	STEL	5 ppm

Components	Type	Value
Ethylene oxide	STEL	1 mg/m <sup>3</sup>

Biological limit values	Value	Specimen
Ethylene oxide	5 micrograms	Creatinine in urine

**Appropriate engineering controls** Emergency eye wash stations and showers should be readily accessible.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Avoid contact with eyes.

#### **Skin protection**

##### **Hand protection**

The use of gloves impervious to the specific material handled is advised to prevent skin contact. Users should check with manufacturers to confirm the breakthrough performance of their products. 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. Suggested protective materials: Nitrile and PVC rubber.

##### **Other**

None.

##### **Respiratory protection**

Respiratory protection not required for prescribed use of this product

##### **Thermal hazards**

None.

#### **General hygiene considerations**

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking.

### 9. Physical and chemical properties

#### Appearance

<b>Physical State</b>	Liquid
<b>Color</b>	Blue
<b>Odor</b>	Characteristic
<b>Odor threshold</b>	Not available
<b>pH</b>	2-3
<b>Melting/freezing point</b>	Not available
<b>Initial boiling point and boiling range</b>	>212°F (100°C)
<b>Flash point</b>	>385°F (196°C)
<b>Evaporation rate</b>	Not available
<b>Flammability</b>	Not available
<b>Flammability Limits</b>	
<b>Upper</b>	Not available
<b>Lower</b>	Not available



## SAFETY DATA SHEET

Vapor pressure	Not available
Vapor density	Not available
Specific gravity (water=1)	1.04
Solubility in water	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available

### 10. Stability and reactivity

Reactivity	This product is stable and non-reactive under normal conditions of use.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Extreme heat can cause product to decompose.
Incompatible materials	None.
Hazardous decomposition products	Carbon dioxide, carbon monoxide, oxides of nitrogen

### 11. Toxicological information

#### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Expected to be a low inhalation hazard.
Skin contact	Prolonged skin contact causes irritation.
Eye contact	Repeated and/or prolonged eye contact causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dermatitis. Rash.
Acute toxicity	Not established.

Product Acid Rinse Aid (CAS mixture)		
Exposure Classification	Route and Species	LD <sub>50</sub>
Acute	Oral, rat	>4,000 mg/kg estimated
Acute	Inhalation, rat	>320 mg/m <sup>3</sup> (estimated)
*Estimates for product may be based on additional component data not shown		

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/ irritation	Causes serious eye irritation.
Respiratory sensitization	Not classified.
Skin sensitization	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Ethylene oxide IARC Category 1 Ethylene oxide NTP - Carcinogenic
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)	Not Listed.
Reproductive toxicity	Not classified.
Specific target organ toxicity – single exposure	Not classified.
Specific target organ toxicity – repeated exposure	Not classified.



# SAFETY DATA SHEET

Aspiration hazard

Not considered an aspiration hazard.

## 12. Ecological information

Ecotoxicity		
Product Acid Rinse Aid (CAS mixture)		
Aquatic Receptor	Species	Test Thresholds
Fish	Oncorhynchus mykiss (rainbow trout)	LC <sub>50</sub> (96-hr): >9,600 mg/L (estimated)
Fish	Fathead minnow ( <i>Pimephales promelas</i> )	LC <sub>50</sub> (96-hr): >870 mg/L (estimated)
Crustacea	Daphnia magna	EC50 (48-hr) >260 mg/L (estimated)
Algae	Pseudokirchneriella subcapita	NOEC 72-hr >32 mg/l (estimated)
*Estimates for product may be based on additional component data not shown		

**Persistence and degradability** Not available. Chemicals of this class are not expected to be persistent in an open, aerobic environment

**Bio-accumulative potential** Potential to bioaccumulate is low.

**Mobility in soil** Not available. Chemicals of these classes are highly water soluble and will partition readily to water and weakly to particles in low-clay soil matrices. They are expected to exhibit moderate to high mobility in saturated and semi-saturated soils

**Other adverse effects** Not available.

## 13. Disposal considerations

**Disposal instructions** Dispose of in accordance with local regulations.

**Local disposal regulations** None.

**Waste from residues/unused product** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).

**Contaminated packaging** Empty containers should be rinsed with water and recycled.

## 14. Transport information

**DOT** Not regulated as dangerous goods.

## 15. Regulatory information

### US federal regulations

**SARA 302 Extremely hazardous substance** Not listed.

**SARA 304 Emergency release notification** Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

**SARA 313 (TRI reporting)** Not listed

### California Proposition 65



**WARNING:** This product can expose you to chemicals ethylene oxide and propylene oxide, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 16. Other information, including date of preparation or last revision

Issue date 12/5/2018  
 Revision date 10/25/2019, 2/25/2020  
 Version # 3  
 HMIS® ratings Health: 1  
 Flammability: 0  
 Physical hazard: 0



NFPA ratings Health: 1  
 Flammability: 0  
 Instability: 0



**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.

**Revision information** Format change, e-Tox information update, Waste code and environmental fate information updated  
 10/25/2019 Change eye risk category from 1 to 2A (SDS equivalent product) Add Exclamation. Add corrosive to metal category 1 (SDS equivalent product). General format update; Refine composition table, amend physical data; Update toxicology thresholds and environmental fate information; Text clarification amendments Sections 5,6,8,9 and 12. PPE recommendation updated; California Proposition 65 notice; HMIS and NFPA pictograms added.  
 2/25/2020 – Removal of DOT hazardous material classification following assignment of revised formula incorporating glycolic acid. Removed physical hazard category and prevention language. Amend all hazard categories and language to mirror formula change Reference formula for CU product ID 5414. Amend HMIS/NFPA classifications. Add IARC and NTP carcinogenic status relative to EtO presence in trace amounts.