

# Automatic Liquid

## Safety Data Sheet

### SECTION 1: Product and company identification

Product name : Automatic Liquid  
Use of the substance/mixture : Detergent  
Product code : 0224  
Company : Richardson Chemical Products Co.  
P.O. Box 240014  
Milwaukee, WI 53224-9001 - USA  
T 414-354-6417  
Emergency number : Chemtrec: 800-424-9300

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

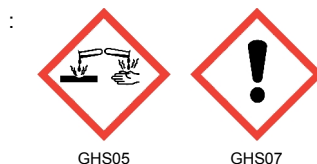
Met. Corr. 1 H290  
Acute Tox. 4 (Oral) H302  
Skin Corr. 1A H314

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US)

: Danger

Hazard statements (GHS-US)

: May be corrosive to metals  
Harmful if swallowed  
Causes severe skin burns and eye damage

Precautionary statements (GHS-US)

: Keep only in original container  
Do not breathe mist, spray  
Wash thoroughly after handling  
Do not eat, drink or smoke when using this product  
Wear eye protection, protective clothing, protective gloves  
If swallowed: Call a doctor, a POISON CENTER if you feel unwell  
If swallowed: rinse mouth. Do NOT induce vomiting  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
If inhaled: Remove person to fresh air and keep comfortable for breathing  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
Immediately call a doctor, a POISON CENTER  
Specific treatment (see First aid measures on this label)  
Rinse mouth  
Wash contaminated clothing before reuse  
Absorb spillage to prevent material damage  
Store locked up  
Store in corrosive resistant container with a resistant inner liner  
Dispose of contents/container to comply with local/regional/national/international regulations.

#### 2.3. Other hazards

No additional information available

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

Not applicable

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

Full text of H-phrases: see section 16

#### 3.2. Mixture

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| Name                                   | Product identifier | %       | Classification (GHS-US)                                                |
|----------------------------------------|--------------------|---------|------------------------------------------------------------------------|
| potassium hydroxide                    | (CAS No) 1310-58-3 | 7-13    | Met. Corr. 1, H290<br>Acute Tox. 3 (Oral), H301<br>Skin Corr. 1A, H314 |
| POTASSIUM SILICATE                     | (CAS No) 1312-76-1 | 1-5     | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H335             |
| tetrasodium ethylenediaminetetracetate | (CAS No) 64-02-8   | 1-5     | Acute Tox. 4 (Oral), H302<br>Eye Dam. 1, H318                          |
| sodium hypochlorite                    | (CAS No) 7681-52-9 | 0.5-1.5 | Ox. Liq. 2, H272<br>Skin Corr. 1B, H314<br>STOT SE 3, H335             |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
- First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : Causes severe skin burns and eye damage. Harmful if swallowed.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : Caustic burns/corrosion of the skin.
- Symptoms/injuries after eye contact : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.
- Symptoms/injuries after ingestion : Harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : All extinguishing media allowed.

#### 5.2. Special hazards arising from the substance or mixture

- Reactivity : Upon combustion: CO and CO<sub>2</sub> are formed. Toxic fumes may be released.

#### 5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Isolate from fire, if possible, without unnecessary risk.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Gloves. Protective goggles. Protective clothing.
- Emergency procedures : Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

##### 6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Stop leak if safe to do so. Stop release. Ventilate area.

#### 6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Contain released substance, pump into suitable containers.

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Methods for cleaning up : This material and its container must be disposed of in a safe way, and as per local legislation.

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing.

Hygiene measures : Wash thoroughly after handling. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations. Add ALWAYS product to water for dilution/mixture. Never add water to this product.

Storage conditions : Keep container closed when not in use.

Incompatible products : acids. reducing agents.

Incompatible materials : Agent of cleaning.

Prohibitions on mixed storage : KEEP SUBSTANCE AWAY FROM: (strong) acids.

Storage area : Keep only in the original container. Store in a dry area. Store in a cool area.

Special rules on packaging : meet the legal requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### potassium hydroxide (1310-58-3)

|       |                                    |                     |
|-------|------------------------------------|---------------------|
| ACGIH | ACGIH Ceiling (mg/m <sup>3</sup> ) | 2 mg/m <sup>3</sup> |
|-------|------------------------------------|---------------------|

### 8.2. Exposure controls

Personal protective equipment : Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Safety glasses. Protective clothing.



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                             |                               |
|---------------------------------------------|-------------------------------|
| Physical state                              | : Liquid                      |
| Appearance                                  | : Hazy. light yellow. Liquid. |
| Odor                                        | : chlorine-like               |
| Odor threshold                              | : No data available           |
| pH                                          | : > 12.5                      |
| Melting point                               | : No data available           |
| Freezing point                              | : No data available           |
| Boiling point                               | : No data available           |
| Flash point                                 | : > 200 °F Closed Cup         |
| 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           |
| Specific gravity / density                  | : 1.18 g/ml                   |
| Solubility                                  | : Soluble in water.           |
| Log Pow                                     | : No data available           |

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|                           |                     |
|---------------------------|---------------------|
| Log Kow                   | : 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 |
| VOC content               | : 0 %               |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Upon combustion: CO and CO<sub>2</sub> are formed. Toxic fumes may be released.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Refer to section 10.1 on Reactivity.

#### 10.4. Conditions to avoid

No additional information available

#### 10.5. Incompatible materials

May be corrosive to metals.

#### 10.6. Hazardous decomposition products

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: Harmful if swallowed.

##### potassium hydroxide (1310-58-3)

|                |                           |
|----------------|---------------------------|
| LD50 oral rat  | 273 mg/kg (Rat)           |
| ATE CLP (oral) | 273.000 mg/kg body weight |

##### tetrasodium ethylenediaminetetracetate (64-02-8)

|                |                           |
|----------------|---------------------------|
| LD50 oral rat  | > 2000 mg/kg (Rat)        |
| ATE CLP (oral) | 500.000 mg/kg body weight |

|                                                    |                                                                                              |
|----------------------------------------------------|----------------------------------------------------------------------------------------------|
| Skin corrosion/irritation                          | : Causes severe skin burns and eye damage.<br>pH: > 12.5                                     |
| Serious eye damage/irritation                      | : Not classified<br>pH: > 12.5                                                               |
| Respiratory or skin sensitization                  | : Not classified                                                                             |
| Germ cell mutagenicity                             | : Not classified                                                                             |
| Carcinogenicity                                    | : Not classified                                                                             |
| Reproductive toxicity                              | : Not classified                                                                             |
| Specific target organ toxicity (single exposure)   | : Not classified                                                                             |
| Specific target organ toxicity (repeated exposure) | : Not classified                                                                             |
| Aspiration hazard                                  | : Not classified                                                                             |
| Symptoms/injuries after inhalation                 | : May cause respiratory irritation.                                                          |
| Symptoms/injuries after skin contact               | : Caustic burns/corrosion of the skin.                                                       |
| Symptoms/injuries after eye contact                | : Causes serious eye damage. Corrosion of the eye tissue. Permanent eye damage.              |
| Symptoms/injuries after ingestion                  | : Harmful if swallowed. Burns to the gastric/intestinal mucosa. Gastrointestinal complaints. |

### SECTION 12: Ecological information

#### 12.1. Toxicity

##### potassium hydroxide (1310-58-3)

|                                |                                          |
|--------------------------------|------------------------------------------|
| LC50 fish 1                    | 28.6 mg/l (24 h; Pisces; Pure substance) |
| LC50 other aquatic organisms 1 | 100 - 1000 mg/l (96 h)                   |

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|                                                  |                                                    |
|--------------------------------------------------|----------------------------------------------------|
| potassium hydroxide (1310-58-3)                  |                                                    |
| LC50 fish 2                                      | 80 mg/l (96 h; Gambusia affinis; Pure substance)   |
| Threshold limit other aquatic organisms 1        | 100 - 1000,96 h                                    |
| tetrasodium ethylenediaminetetracetate (64-02-8) |                                                    |
| LC50 fish 1                                      | 121 mg/l (96 h; Lepomis macrochirus; Soft water)   |
| EC50 Daphnia 1                                   | 625 mg/l (24 h; Daphnia magna)                     |
| LC50 fish 2                                      | 374 - 792 mg/l (96 h; Lepomis macrochirus; pH > 7) |
| Threshold limit algae 1                          | > 100 mg/l (72 h; Scenedesmus subspicatus; Growth) |

### 12.2. Persistence and degradability

|                                                  |                                                                                           |
|--------------------------------------------------|-------------------------------------------------------------------------------------------|
| potassium hydroxide (1310-58-3)                  |                                                                                           |
| Persistence and degradability                    | Biodegradability: not applicable. No (test) data on mobility of the components available. |
| Biochemical oxygen demand (BOD)                  | Not applicable                                                                            |
| Chemical oxygen demand (COD)                     | Not applicable                                                                            |
| ThOD                                             | Not applicable                                                                            |
| BOD (% of ThOD)                                  | Not applicable                                                                            |
| tetrasodium ethylenediaminetetracetate (64-02-8) |                                                                                           |
| Persistence and degradability                    | Not readily biodegradable in water.                                                       |
| Biochemical oxygen demand (BOD)                  | < 0.002 g O <sub>2</sub> /g substance                                                     |
| Chemical oxygen demand (COD)                     | 0.54 - 0.58 g O <sub>2</sub> /g substance                                                 |

### 12.3. Bioaccumulative potential

|                                                  |                                  |
|--------------------------------------------------|----------------------------------|
| potassium hydroxide (1310-58-3)                  |                                  |
| Bioaccumulative potential                        | Not bioaccumulative.             |
| tetrasodium ethylenediaminetetracetate (64-02-8) |                                  |
| Log Pow                                          | -2.6                             |
| Bioaccumulative potential                        | Bioaccumulation: not applicable. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

## SECTION 14: Transport information

### Department of Transportation (DOT)

Transport document description : NA1760 Compounds, cleaning liquid (Sodium Hypochlorite, Potassium Hydroxide), 8, II  
UN-No.(DOT) : NA1760  
Proper Shipping Name (DOT) : Compounds, cleaning liquid  
Transport hazard class(es) (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136  
Hazard labels (DOT) : 8 - Corrosive



Packing group (DOT) : II - Medium Danger  
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202  
DOT Packaging Bulk (49 CFR 173.xxx) : 242  
DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name  
DOT Special Provisions (49 CFR 172.102) : B2,IB2,N37,T11,TP2,TP27  
DOT Packaging Exceptions (49 CFR 173.xxx) : 154  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 1 L

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 30 L  
DOT Vessel Stowage Location : B  
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

### Additional information

Other information : No supplementary information available.

### ADR

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

| potassium hydroxide (1310-58-3)                                   |         |
|-------------------------------------------------------------------|---------|
| Not listed on SARA Section 313 (Specific toxic chemical listings) |         |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)      | 1000 lb |

| sodium hypochlorite (7681-52-9)                                   |        |
|-------------------------------------------------------------------|--------|
| Not listed on SARA Section 313 (Specific toxic chemical listings) |        |
| RQ (Reportable quantity, section 304 of EPA's List of Lists)      | 100 lb |

California Proposition 65 - This product does not contain substances known to the state of California to cause cancer and/or reproductive toxicity.

## SECTION 16: Other information

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H-phrases:

|                     |                                                             |
|---------------------|-------------------------------------------------------------|
| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3                            |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                            |
| Eye Dam. 1          | Serious eye damage/eye irritation Category 1                |
| Met. Corr. 1        | Corrosive to metals Category 1                              |
| Ox. Liq. 2          | Oxidizing liquids Category 2                                |
| Skin Corr. 1A       | Skin corrosion/irritation Category 1A                       |
| Skin Corr. 1B       | Skin corrosion/irritation Category 1B                       |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2                        |
| STOT SE 3           | Specific target organ toxicity (single exposure) Category 3 |
| H272                | May intensify fire; oxidizer                                |
| H290                | May be corrosive to metals                                  |
| H301                | Toxic if swallowed                                          |
| H302                | Harmful if swallowed                                        |
| H314                | Causes severe skin burns and eye damage                     |
| H315                | Causes skin irritation                                      |
| H318                | Causes serious eye damage                                   |
| H335                | May cause respiratory irritation                            |

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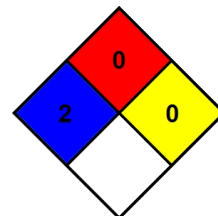
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NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 0 - Materials that will not burn.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



Prepared by: Technical Department

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. No warranty is expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Our company assumes no responsibility for personal injury or property damage to the vendee, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of this material.*