Washing Solution for Tubes
Part Numbers: 71237

For use with the ADAMS A1c HA-8180V

ARKRAY USA, Inc.
5182 West 76th Street
Minneapolis, Minnesota 55439

Technical Customer Service Phone:
1-855.646.3108
SAFETY DATA SHEET

SDS No. : 71237EU
Issue Date : 01 Nov. 2004
Revision Date : 28 Feb. 2018

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
Product name : Washing Solution for Tubes

1.2 Relevant identified uses of the substance or mixture and uses advised against
This product is applicable for the following purpose of use only:
ADAMS A1c HA series

1.3 Details of the supplier of the safety data sheet
ARKRAY Factory, Inc.
Address : 1480 Koji, Konan-cho, Koka-shi, Shiga 520-3306, JAPAN
Phone : +81-748-86-6901
Facsimile : +81-748-86-5347

European representative
ARKRAY Europe, B.V.
Address : Prof. J. H. Bavincklaan 2, 1183 AT Amstelveen, THE NETHERLANDS
Phone : +31-20-545-2450
Facsimile : +31-20-545-2459

U.S. representative
ARKRAY USA, Inc.
5182 West 76th Street
Minneapolis, MN 55439
1-855-646-3108

1.4 Emergency telephone number
Emergency phone : 1-855-646-3108

2. Hazards Identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to HCS 2012, REGULATION (EC) No 1272/2008.

2.2 Label elements
The product does not need to be labeled in accordance with EC directives or respective of national laws in the EU.

GHS label elements, including precautionary statements:

Emergency overview

Signal word: No signal word
Appearance: Clear, aqueous solution
Physical state: Liquid
Odor: Almost none
Precautionary statements
- In case of contact with eyes, mouth or skin, wash immediately and thoroughly with water and consult your physician if necessary.
- Store under suitable conditions according to product labeling and do not use after the expiration date.
- Make sure the bottle cap is closed tightly and avoid exposing to direct sunlight when storing.
- Determine proper disposal methods to comply with Local, State, and Federal regulations.

Hazard not otherwise classified (HNOC)
Not applicable.

Other information
Not applicable.

2.3 Other hazards
It is harmful in high doses.
It is non-combustible and not hazardous under conditions of normal use.

3. Composition/information on ingredients
3.2 Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Concentration</th>
<th>Formula</th>
<th>EC number</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nonionic surfactant</td>
<td>1 - 5 %</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Inorganic salt</td>
<td>1 - 5 %</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Antiseptics</td>
<td>0.1 - 1 %</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
</tbody>
</table>

No hazardous components >1%, >0.1% carcinogen.

4. First aid measures
4.1 Description of first aid measures

Inhalation
Remove person to fresh air; rinse mouth with water sufficiently and keep comfortable for breathing. Get medical treatment if necessary.

Skin contact
Wash skin with plenty of cold water, get medical treatment if necessary.

Eye contact
If even a small amount of the product gets in eyes, immediately rinse under plenty of running water for over 15 minutes without rubbing eye (carefully wash eyeball and eyelid completely). Get medical treatment by an eye doctor. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion
Rinse mouth with water sufficiently. If person is conscious, let person drink fresh water or milk. Do NOT induce vomiting. Immediately get medical treatment.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.
4.3 **Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5. **Firefighting measures**

5.1 **Extinguishing media**

   Suitable extinguishing media

   This product is non-flammable. In case of a fire around the container, use a fire-extinguishing agent consisting of water, dry-chemical powder or carbon dioxide.

5.2 **Special hazards arising from the substance or mixture**

   Evacuate non-essential personnel to a safe area.

5.3 **Advice for firefighters**

   Firefighters should wear proper protective equipment and self-contained breathing apparatus for fighting if necessary. Be careful not to inhale smoke.

6. **Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**

   Wear proper protective equipment. Keep unauthorized personnel away.

6.2 **Environmental precautions**

   Each disposal facility must determine proper disposal methods to comply with Local, State, and Federal Environmental Regulations.

6.3 **Methods and material for containment and cleaning up**

   Collect spillage as much as possible and wipe off any remaining liquid on the floor or ground with absorbent material to be placed in a disposal container.

6.4 **Reference to other sections**

   For disposal see Section 13.

7. **Handling and storage**

7.1 **Precautions for safe handling**

   Preventive measures (Exposure control for handling personnel)

   Wear proper protective equipment.

   Avoid contact with skin and eyes. Completely avoid mist/spray.

7.2 **Conditions for safe storage, including any incompatibilities**

   Keep the product away from direct sunlight and store at room temperature (1-30°C). Keep container tightly closed. Keep out of reach of children.

7.3 **Specific end use(s)**

   Apart from the uses mentioned in Section 1.2 no other specific uses are stipulated.

8. **Exposure controls/personal protection**

8.1 **Control parameters**

   No data available.

8.2 **Exposure controls**

   Appropriate engineering controls

   Good general ventilation should be sufficient for most conditions.
Install equipment for washing hands, eyes or skin near the site of handling. Post a notice to indicate the availability of such equipment.

**Protective equipment**

**Hand protection**
- Wear suitable gloves such as rubber gloves.

**Eye protection**
- Wear appropriate eye protection to prevent eye contact.

**Skin and body protection**
- Wear protective mask, protective boots, protective clothes, or protective rubber apron if necessary.

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Colorless transparent solution</td>
</tr>
<tr>
<td>Odor</td>
<td>Almost none</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.5 (central value)</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in</td>
<td>Water and hot water</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data available</td>
</tr>
<tr>
<td>n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**9.2 Other information**

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific gravity</td>
<td>1.03 (central value)</td>
</tr>
</tbody>
</table>

**10. Stability and reactivity**

**10.1 Reactivity**
- No further information available.

**10.2 Chemical stability**
- Stable under normal storage/handling conditions

**10.3 Possibility of hazardous reactions**
- It may corrode non-ferrous metals (such as copper, aluminum, and brass) other than stainless steel.

**10.4 Conditions to avoid**
- Direct sunlight, heat
10.5 **Incompatible materials**
No further information available.

10.6 **Hazardous decomposition products**
No further information available.

11. **Toxicological information**

11.1 **Information on toxicological effects**
- Acute toxicity: No data available currently
- Skin corrosion/irritation: No data available currently
- Serious eye damage/irritation: No data available currently
- Respiratory or skin sensitization: No data available currently
- Germ cell mutagenicity: No data available currently
- Carcinogenicity:
  - IARC: -
  - NTP: -
  - OSHA: -
  - ACGIH: -
- Reproductive toxicity: No data available currently
- STOT-single exposure: No data available currently
- STOT-repeated exposure: No data available currently
- Aspiration hazard: No data available currently

12. **Ecological information**

12.1 **Toxicity**
No data available currently

12.2 **Persistence and degradability**
No data available currently

12.3 **Bioaccumulative potential**
No data available currently

12.4 **Mobility in soil**
No data available currently

12.5 **Results of PBT and vPvB assessment**
No data available currently

12.6 **Other adverse effects**
No data available currently

13. **Disposal considerations**

13.1 **Waste treatment methods**

- **Waste residues**
  - Dilute the product with a large volume of water before disposing.
  - In case of a large amount of waste, consult a professional industrial waste disposal company.

14. **Transport information**

14.1 **UN number**

- ADR/RID: -
- IMDG: -
- IATA: -

14.2 **UN proper shipping name**

- ADR/RID: -
- IMDG: -
- IATA: -
14.3 **Transport hazard class(es)**
ADR/RID: -  
IMDG: -  
IATA: -

14.4 **Packing group**
ADR/RID: -  
IMDG: -  
IATA: -

14.5 **Environmental hazards**
ADR/RID: no  
IMDG Marine pollutant: no  
IATA: no

14.6 **Special precautions for user**
While transporting the product, keep away from direct sunlight, check to see that no leakage from the container occurs. Load the containers so that they cannot topple over, fall down, or be damaged, and take measures against collapse of the pile of the containers.

14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
Not applicable

15. **Regulatory information**

15.1 **Safety, health, and environmental regulations/legislation specific to the substance or mixture**
No data available

15.2 **Chemical safety assessment**
No data available

16. **Other information**

**The date of preparation and revision of the SDS**
Prepared on 1st October 2008
Revised on 24th August 2012
Revised on 27th December 2013
Revised on 6th January 2015
Revised on 15th December 2015
Revised on 16th December 2015
Revised on 10th January 2017
Revised on 28th February 2018

**Key literature references and sources**
Globally Harmonized System of classification and labelling of chemicals, (4rd ed., 2011), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 17th edit. UN
Classification, labelling and packaging of substances and mixtures (reg.(EC) No 1272/2008)
2012 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
2013 TLVs and BEIs. (ACGIH)
http://monographs.iarc.fr/monoeval/grlist.html
JIS Z 7253 2012
Supplier’s data/information

**Further information**
The contents mentioned have been prepared based on the materials, information and data currently available. It therefore, may be revised according to any newly obtained information or knowledge on occasion. It does not guarantee the correctness or completeness of information or performance of any product. Any precautions given therein are for an ordinary handling. If special handling is to be performed, be sure to provide suitable safety measures regarding the new
use/usage.

The notification given herein regarding the potential hazards and toxicity may not be sufficient, so handle such item very carefully.