

SAFETY DATA SHEET

SDS No. : 71237EU
Issue Date : 01 Nov. 2004
Revision Date : 30 Nov. 2021
Ver.6.0

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.

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ARKRAY Europe, B. V.

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Phone : +31-20-545-2450

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1.4 Emergency telephone number

Emergency phone : +31-20-545-2450 (9:00~17:00)

2. Hazards Identification**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

2.2 Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

2.3 Other hazards

It is harmful in high doses.

It is non-combustibility and it doesn't cause danger in general use.

3. Composition/information on ingredients**3.2 Mixtures**

| Component | Conc. [wt%] | Formula | EINECS No. | CAS No. | Classification Regulation(EC) 1272/2008(CLP) |
|---------------------|----------------|---------|------------|---------|--|
| Nonionic surfactant | 1 - 5 % | — | — | — | — |
| Inorganic salt | 1 - 5 % | — | — | — | — |
| Antiseptics | 0.1 - 1 % | — | — | — | — |

4. First aid measures

4.1 Description of first aid measures

General notes

Consult a physician. Show this safety data sheet to the doctor in attendance.

Following inhalation

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

Following skin contact

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

Following 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.

Following 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.

Self-protection of the first aider

Wear protective equipment to avoid contact with skin and eyes.

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, as a fire-extinguishing agent that uses the water, dry-chemical powder or carbon dioxide.

Unsuitable extinguishing media

Not specified.

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. While working, the staff must face a wind-blowing direction. Be careful not to inhale smoke.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Stay away from the contaminated area.

6.1.2 For emergency responder

Wear proper protective equipment. Keep unauthorized personnel away.

6.2 Environmental precautions

Be careful not to dispose such chemical product into the rivers to cause bad influence on peripheral area.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Collect spillage as much as possible and wipe off some remaining liquid on the floor or ground with some pieces of waste cloth. Burn out such clothes.

6.3.2 For cleans up:

If spillage cannot be recovered, discharge them into a pit by flushing with plenty of water.

6.3.3 Other information:

No relevant information available.

6.4 Reference to other sections

For protective equipment see Section 8.

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. Avoid inhaling mist/spray absolutely.

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)

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

8. Exposure controls/personal protection

8.1 Control parameters

The product does not contain any substances for which the allowable concentration has been set.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Good general ventilation should be sufficient for most conditions.

Install a facility for washing hands, eyes or bodies near the handling place. Put a notice to indicate there is such a facility.

8.2.2 personal protection equipment:

8.2.2.1 Eye/face protection

Wear eye protection.

8.2.2.2 Skin protection

Hand protection

Wear suitable gloves such as rubber gloves.

Other skin protection:

Wear protective boots and protective clothing, if necessary.

8.2.2.3 Respiratory protection

Wear protective mask, if necessary.

8.2.2.4 Thermal hazards

No relevant information available.

8.2.3 Environmental exposure controls

For environmental exposure controls, see Section 6.2.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|---------------------------------|---------------------|
| Physical state | liquid |
| Colour | Colorless |
| Odour | Almost none |
| Odour threshold | No data available |
| Melting point/freezing point | No data available |
| Boiling point and boiling range | No data available |
| Flammability | No data available |
| Lower and upper explosion limit | No data available |
| Flash Point | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| pH | 7.5 (central value) |
| Kinematic viscosity | No data available |
| Solubility | No data available |
| Partition coefficient | No data available |
| n-octanol/water(log value) | |
| Vapour pressure | No data available |
| Density and/or relative density | No data available |
| Relative vapour density | No data available |
| Particle characteristics | Not applicable |

9.2 Other information

No relevant information available.

10. Stability and reactivity**10.1 Reactivity**

Stable under normal conditions.

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, aluminium, and brass) other than stainless steel.

10.4 Conditions to avoid

Direct sunlight, heat

10.5 Incompatible materials

Store at a distance from incompatible materials.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

11. Toxicological information**11.1 Information on hazard classes as defined in Regulation(EC) No 1272/2008**

| | |
|-----------------------------------|---|
| Acute toxicity | |
| Oral | Based on available data, the classification criteria are not met. |
| Dermal | Based on available data, the classification criteria are not met. |
| Inhalation (gas) | Based on available data, the classification criteria are not met. |
| Inhalation (vapours) | Based on available data, the classification criteria are not met. |
| Inhalation (dust/mist) | Based on available data, the classification criteria are not met. |
| Skin corrosion/irritation | Based on available data, the classification criteria are not met. |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | Based on available data, the classification criteria are not met. |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Reproductive toxicity | Based on available data, the classification criteria are not met. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

11.2 Information on other hazards

No relevant information available.

12. Ecological information**12.1 Toxicity**

Based on available data, the classification criteria are not met.

12.2 Persistence and degradability

Based on available data, the classification criteria are not met.

12.3 Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4 Mobility in soil

Based on available data, the classification criteria are not met.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

12.7 Other adverse effects

No relevant information available.

13. Disposal considerations

13.1 Waste treatment methods

13.1.1 Product/Packaging disposal

Dilute the product with a large amount of water before disposing.

13.1.2 Waste treatment-relevant information

In case of bulky lot, ask a professional industrial waste disposing company.

13.1.3 Sewage disposal-relevant information

Do not dump this product into sewers, on the ground or into any body of water.

13.1.4 Other disposal recommendations

Observe all federal, state, and local environmental regulation.

14. Transport information

14.1 UN number or ID number

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.2 UN proper shipping name

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.3 Transport hazard class(es)

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.4 Packing group

ADR/RID: N/A

IMDG: N/A

IATA: N/A

14.5 Environmental hazards

ADR/RID: N/A

IMDG Marine pollutant: N/A

IATA: N/A

14.6 Special precautions for user

In transporting the product, keep away from direct sunlight, check to see that no leakage from the container occurs. Load the containers so that they may not topple over, fall down, or be damaged, and take measures against collapse of the pile of the containers.

14.7 Maritime transport in bulk according to IMO instruments

No relevant information available.

15. Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

(EC) No 1907/2006 (REACH).

(EC) No 1272/2008 (CLP).

(EU) No 453/2010.

(EU) No 2015/ 830

(EU) 2020/878

15.2 Chemical safety assessment

No chemical safety assessment has been carried out.

16. Other information

The date of preparation and revision of the SDS

| | | |
|---------|------------------------------|--|
| Ver.1.0 | Prepared on 01 October 2008 | |
| Ver.2.0 | Revised on 24 August 2012: | Changed 2.1. |
| Ver.3.0 | Revised on 27 December 2013: | Changed 2.1. |
| Ver.3.1 | Revised on 06 January 2015: | Added ARKRAY Europe, B.V. |
| Ver.4.0 | Revised on 15 December 2015: | Changed 2.1. |
| Ver.4.1 | Revised on 16 December 2015: | Chenged SDS No. |
| Ver.4.2 | Revised on 10 January 2017: | Changed Revision Date. |
| Ver.5.0 | Revised on 14 October 2020: | Changed 3.2,6.1,8.2,13,16. |
| Ver.6.0 | Revised on 30 November 2021: | Revised a new format in accordance with Regulation(EU) 2020/878. |

Key literature references

Package insert

IMDG Code

IATA Dangerous Goods Regulations

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Not applicable.

Further information

The above information contained herein is based on the data available to us and is believed to be correct. However, ARKRAY, Inc. bears no warranty expresses or implies regarding the accuracy of these data or the results to be obtained from the use thereof.

ARKRAY, Inc. assumes no responsibility for injury caused from the use of the product described herein.