SAFETY DATA SHEET

SDS No. : 79053EU
Issue Date : 06 Apr. 2011
Revision Date : 02 Feb. 2022
Ver.7.0

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

1.1 Product identifier

Product name : Concentrated Washing Solution 3

1.2 Relevant identified uses of the substance or mixture and uses advised against

The product is applicable for the following purpose of use only. Use exclusive reagent for cleaning of the parts of the AUTION MAX and AUTION HYBRID instruments.

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

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

Classification (REGULATION (EC) No 1272/2008)

Eye damage/irritation	:Category2	H320

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictogram(s)

Signal word

Warning

Hazard statement(s)

H320	Causes eye irritation

Precautionary statement(s)

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/ eye protection.

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Sodium phosphate tribasic	Causes skin irritation
Sodium azide	The substance may react with acids producing toxic and explosive hydrogen azide. Reactions with heavy metals (In particular, copper, silver, mercury or their compounds) in the presence of water may produce highly explosive azides.
	The substance is irritating to the mucous membranes.

3. Composition/information on ingredients

3.2 Mixtures

Component	Conc. [wt%]	Formula	EINECS No.	CAS No.	Classification Regulation(EC) 1272/2008(CLP)
Polyoxyethylene Alkyl(12-14)ethers	< 1.0	—	—	84133-50-6	—
Sodium phosphate tribasic	< 0.3	Na_3PO_4	231-509-8	7601-54-9	Skin Corr. 1; H314
Sodium azide	< 0.1	NaN_3	247-852-1	26628-22-8	Acute Tox. 2; H300, Aquatic Acute 1; H400, Aquatic Chronic 1; H410, EUH032
Sodium hydrogen phosphate	< 0.1	Na_2HPO_4	231-448-7	7558-79-4	—

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

Cover the victim with a blanket, and remove to fresh air. Let him/her blow nose and gargle. If trouble breathing, give oxygen quickly. Immediately get medical attention.

Following skin contact

Immediately wash thoroughly with water and soap. Immediately get medical attention if itchiness and inflammation occurs.

Following eye contact

Immediately wash eyes with plenty of clean water for over 15 minutes and get medical attention.

Following ingestion

Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Immediately get medical attention.

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

Skin irritation, Eye irritation

4.3 Indication of any immediate medical attention and special treatment needed

For medical attentions and special treatments see Section 4.1.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide, dry chemical, and water spray

Unsuitable extinguishing media

Not specified.

5.2 Special hazards arising from the substance or mixture

Toxic and irritating dust, fumes, or smoke may be emitted.

5.3 Advice for firefighters

Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Evacuate the contaminated area. Avoid contact with skin and eyes directly.

6.1.2 For emergency responder

If necessary, wear personal protective equipment. For protective equipment see Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Pay attention to avoid release to the environment.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:

Wipe with absorbent such as paper towel.

6.3.2 For cleans up:

Rinse the contaminated area 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 the protective equipment. Avoid contact with skin and eyes.

Do NOT eat, drink, and smoke when using the product.

After handling, wash hands thoroughly.

7.2 Conditions for safe storage, including any incompatibilities

Avoid direct sunlight and store at temperature of 1 to 30 °C. Keep container tightly closed.

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

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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.2.2 personal protection equipment:

8.2.2.1 Eye/face protection

Face shield and safety glasses.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

8.2.2.2 Skin protection

Hand protection

Handle with gloves.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Other skin protection:

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

8.2.2.3 Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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 to pale yellow transparent
Odour	No data available.
Odour threshold	No data available.
Melting point/freezing point	No data available.

Boiling point and boiling range	No data available(Mixture) 100 ℃ (Water)
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	<11.5 (at 25 °C)
Kinematic viscosity	No data available.
Solubility	Soluble in water
Partition coefficient n-octanol/water(log value)	Not applicable
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

No hazardous reaction when handled and stored according to provisions.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

10.4 Conditions to avoid

Sunlight, heat, and humidity.

Shall be Stored with reference to Section 7.2.

10.5 Incompatible materials

Heavy metals, strong acids, strong oxidizing agents

Store at a distance from incompatible materials.

10.6 Hazardous decomposition products

Hydrogen azide (reaction product of sodium azide and acid)

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation(EC) No 1272/2008

Acute toxicity	
Ooral	Based on available data, the classification criteria are not met. (Mixture)
	rat LD50 45 mg/kg (Sodium azide)
Dermal	Based on available data, the classification criteria are not met.
Inhalation (vapours)	Based on available data, the classification criteria are not met.

Skin corrosion/irritation	Based on available data, the classification criteria are not met. (Mixture)
	Causes severe skin burns and eye damage. (Sodium phosphate tribasic)
Serious eye damage/irritation	Causes eye irritation .(Mixture)
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. (Mixture)

Algae (Pseudokirchneriella subcapitata) ErC50/96H 348μg/L(Sodium azide)

12.2 Persistence and degradability

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

1 % by HPLC (Sodium azide)

12.3 Bioaccumulative potential

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

Low residualibity (Sodium azide)

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

If the product is unused, dilute the product with a large amount of water before disposing.

13.1.2 Waste treatment-relevant information

Contact a licensed professional waste disposal service to dispose of this product.

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

If used product, ask a licensed disposal company.

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

When transporting, make sure that there are no leaks in the container, load it so that it does not fall over, fall, or be damaged, and make sure to prevent it from collapsing.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

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 6 April 2011	
Ver.2.0	Revised on 1 August 2016	Revised a new format in accordance with Regulation (EC) No. 1907/2006. European representative's address has changed.
Ver.2.1	Revised on 24 January 2017	Corrected the wording in 15.1.
Ver.2.2	Revised on 23 February 2017	Revised the descriptions in 14.1.
Ver.3.0	Revised on 24 July 2018	Changed the descriptions in2.Hazards Identification and 14.Transport information.
Ver.4.0	Revised on 13 December 2019	Revised the descriptions in 3.2, 9.1

Ver.5.0	Revised on 22 January 2021	Deleted the Product number in 1.1, Revised the descriptions in 3.2.
Ver.6.0	Revised on 31 May 2021:	Revised the descriptions in 3.2.
Ver.7.0	Revised on 02 Feb 2022:	Revised a new format in accordance with Regulation(EU) 2020/878

Key literature references

Package insert

International Chemical Safety Cards (ICSC) - Japanese version -

IMDG Code 2012 Edition

IATA Dangerous Goods Regulations 54th Edition

Chemical Risk Information Platform (CHRIP)

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

Eye Irrit. 2 H319 On basis of test data

Hazard statements in full

H300	Fatal if swallowed.
H314	Causes severe skin burns and eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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.