

Arjo Liquids

Flusher Detergent

According to: Regulation (EC) No.1907/2006

Section 1 Identification of the substance/mixture and company

1.1 Product identifier

Name: Arjo Liquids Flusher Detergent

1.2 Product uses

Mild alkaline detergent to be used for automated cleaning of human waste containers. Suitable for use on alkali resistant surfaces such as stainless steel, ceramics, glass and resistant plastics.

1.3 Supplier

Details of the supplier of the Safety Data Sheet.

ArjoHuntleigh AB
Hans Michelsensgatan 10
211 20 Malmö, Sweden

Phone: +46 (0)10 335 4500
sds.regulatory@arjo.com
Web: www.arjo.com

1.4 Emergency telephone number

For emergency event of spillage, inhalation or ingestion of products, please contact the emergency hotline:

+44 8 08 189 0979 or
+1 760 476 3961. Access code 334452.

Section 2 Hazards identification (undiluted product)

2.1 Classification of the substance or mixture

According to (EC) 1272/2008

- Health hazards: Eye Dam. 1, Skin Irrit. 2
- Physical hazards: Not classified
- Environmental hazards: Not classified

2.2 Label elements

According to (EC) 1272/2008

Danger



H318	Causes serious eye damage.
H315	Causes skin irritation.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P305 + P351 P338 + P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention.
P405	Store locked up.

2.3 Other hazards

None identified.

Section 3 Composition/information on ingredients

Material:	CAS number:	Level:	Hazards (See section 16):
Sodium hydroxide	1310-73-2	0.5-2.0 %	Met. Corr. 1, H290, Skin Corr. 1A, H314

Section 4 First aid measures

4.1 Description of first aid measures

- Eye contact: Immediately flush eyes with water, holding eyelids apart, for at least 10 minutes. Seek medical assistance immediately.
- Skin contact: Remove contaminated clothing, wash skin with soap and water. Seek medical attention if irritation persists.
- Inhalation: If irritation occurs, remove to fresh air, keep warm and at rest, seek medical attention immediately.
- Ingestion: Do not induce vomiting. If conscious, give water to drink. Seek medical assistance immediately.
- First aider PPE: As required to prevent contact. See section 8.2.

4.2 Most important symptoms and effects, both acute and delayed

- Eye hazard: Will cause severe irritation and damage.
- Skin hazard: Will cause irritation.
- Respiratory hazard: Breathing spray mist will cause irritation.
- Other hazards: None identified.

4.3 Indication of any immediate medical attention and special treatment needed

No special treatment or attention required additional to section 4.2.

Section 5 Firefighting measures

Flammability hazard: Not combustible.

5.1 Extinguishing media

No special requirements. Use extinguishing media appropriate for primary source of fire

5.2 Special hazards arising from the substance or mixture

No specific hazards arising from the mixture. May produce toxic fumes under extreme heating in fire.

5.3 Advice for firefighters

No special measures arising from the mixture.

Section 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Take precautions to avoid contact. Use personal protective equipment as detailed in section 8. Spillage may make floors slippery. Keep the area clear. Observe regulations.

6.2 Environmental precautions

Prevent spills from entering water courses

6.3 Methods and material for containment and cleaning up

Small quantities, mop up or use an inert absorbent.

Large quantities, contain and absorb or pump into suitable containers for disposal.

6.4 Reference to other sections

Observe the advice given in sections 8 and 13.

Section 7 Handling and storage

Shelf life: 24 months in original sealed containers.

7.1 Precautions for safe handling

Do not mix with other products. Observe good industrial hygiene.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry place protected from frost and away from acids and strong oxidising agents.

Store upright in original containers. Recommended storage temperature 5–25 °C

7.3 Product uses

Dosing range 2–4 ml/l depending on water hardness.

Check materials compatibility before use. Ensure complete rinsing after use.

Do not mix with other chemicals.

Section 8 Exposure controls and personal protection

8.1 Control parameters

Workplace exposure limits: Sodium hydroxide, 2 mg/m³, WEL 15 min STEL EH40 UK

8.2 Exposure controls

These measures are suggested on the basis of general use methods and may not be appropriate to all potential uses of the product. The user is responsible for carrying out a full risk assessment of their specific processes and systems of work.

Eye protection: Wear eye protection.



Hand protection: Wear PVC or latex gloves. Exact choice of glove depends on specific risk assessments.



Body protection: As necessary to prevent contact.

Respiratory protection: Avoid breathing spray mist, wear a protective mask if necessary.

Other protection: Personal protective equipment

Exact PPE requirements should be determined from a specific risk assessment of the processes being carried out.

Environmental protection: Prevent mixture from entering water courses.

Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Clear colourless to pale yellow liquid
- Odour: Characteristic
- pH: 12.9 as supplied (typical). pH 9.8 at 2 ml/l (typical)
- Relative density at 20 °C: 1.078 (typical)
- Initial boiling point: 100 °C, Flash point: N/A
- Auto-ignition temperature: Not applicable, Viscosity: 3.7 cSt (typical)
- Explosive properties: None
- Oxidising properties: None known
- Vapour pressure: 17.5mm Hg at 20 °C
- Solubility: Miscible with water

9.2 Other information

None

Section 10 Stability and reactivity

10.1 Reactivity

Incompatible with oxidising agents, acids and alkali sensitive metals such as aluminium.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are expected to occur.

10.4 Conditions to avoid

Extremes of temperature.

10.5 Incompatible materials

Incompatible with oxidising agents, acids and alkali sensitive metals such as aluminium.

10.6 Hazardous decomposition products

None known.

Section 11 Toxicological information

11.1 Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- Skin corrosion/irritation: Product is classified as Skin Irrit. 2. See section 2.
- Serious eye damage/irritation: Product is classified as Eye Dam. 1. See section 2.
- Respiratory or skin sensitisation: Does not contain any ingredients classified as sensitising.
- Germ cell mutagenicity: Does not contain any ingredients classified as mutagenic.
- Carcinogenicity: Does not contain any ingredients classified as carcinogenic.
- Reproductive toxicity: Does not contain any ingredients classified as toxic for reproduction.
- STOT single exposure: Does not contain any ingredients classified as STOT SE.
- STOT repeated exposure: Does not contain any ingredients classified as STOT RE.
- Aspiration toxicity: Does not contain any ingredients classified as Asp Tox.

11.2 Routes of exposure/symptoms

- Eye contact: Will cause severe irritation and damage.
- Skin contact: Will cause irritation.
- Inhalation: Not a hazard in normal use. Breathing spray mist may cause irritation.
- Ingestion: Calculated acute toxicity (Oral) >8000 mg/kg. Will cause irritation to gastrointestinal tract.

Section 12 Ecological information

12.1 Toxicity

Not classified as dangerous for the environment. May affect aquatic organisms due to high pH if released into water courses untreated.

12.2 Persistence and degradability

All organic ingredients are biodegradable when well diluted.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

This product has high water solubility.

12.5 Results of PBT and vPvB assessment

Contains no ingredients classified as PBT or vPvB.

12.6 Other adverse effects

No other adverse effects are anticipated.

Section 13 Disposal consideration

13.1 Waste treatment methods

Empty cleaned containers can be recycled where facilities exist or sent for landfill or incineration where permitted.

Dispose of surplus product and packaging via a licenced chemical waste contractor.

Process effluent can normally be discharged to foul sewer (subject to consent limits).

Section 14 Transport information

14.1 UN number

3266

Tariff/TARIC 3402 90 90

14.2 UN proper shipping name

Corrosive liquid, basic, inorganic, N.O.S.

14.3 Transport hazard class(es)

8

14.4 Packing group

3

14.5 Environmental hazards

Not classified as environmentally hazardous for transport.

14.6 Special precautions for user

No specific precautions.

14.7 Transport in bulk according to Annex II of MARPOL 7 3/78 and the IBC Code

Not available for bulk transport.

Section 15 Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Contents according to Regulation (EC) No. 648/2004 on detergents:

- Polycarboxylate: <5 %
- Amphoteric surfactants: <5 %

The surfactant(s) contained in this preparation comply with the biodegradability criteria laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them at their direct request

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16 Other information

Hazard statements relating to ingredients (see section 3).

H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

WGK 1 schwach wassergefährdend

Date of issue: 2019-09-01

This product should be stored, handled and used in accordance with good industrial practice and in conformity with legal regulations. The information in this data sheet is based on the present state of our knowledge and is intended to describe products from the point of view of safety requirements and thus should not be construed as guaranteeing specific properties. It is for users to satisfy themselves of the suitability of this product for their own applications.