

SAFETY DATA SHEET ALUMINIUM SAFE MACHINE WARE WASH

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name Internal Id

ALUMINIUM SAFE MACHINE WARE WASH C847

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

against Identified uses

Cleaning agent.

1.3. Details of the supplier of the safety data sheet

Supplier

ARROW SOLUTIONS RAWDON ROAD MOIRA **SWADLINCOTE** DERBYSHIRE **DE12 6DA** TEL: +44 (0)1283 221044 EMERGENCY: +44 (0) 777 8505 330 FAX: +44 (0)1283 225731 sales@arrowchem.com

1.4. Emergency telephone number

+44 (0) 777 8505 330

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Classification (1999/45/EEC)

Physical and Chemical Hazards	Met. Corr. 1 - H290
Human health	Skin Corr. 1A - H314
Environment	Not classified.
C;R35.	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains	SODIUM SILICATE	
Detergent Labelling:		
	5 - < 15%	Phosphonates
	< 5%	amphoteric surfactants
		EDTA and salts thereof

Label In Accordance With (EC) No. 1272/2008



Signal Word	Danger	
Hazard Statements		
	H290	May be corrosive to metals.
	H314	Causes severe skin burns and eye damage.
Precautionary Statements		
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P309+311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
	P501	Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

TETRASODIUM 1-HYDROXYETHYL	IDENE-1,1-DIPHOSPHONATE	1	10-30%
CAS-No.: 3994-83-0	EC No.: 223-267-7		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		Classification (67/548/EEC) Xi;R36/38.	
SODIUM SILICATE			10-30%
CAS-No.: 1344-09-8	EC No.: 215-687-4		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318		Classification (67/548/EEC) Xi;R38,R41.	
DISODIUM METASILICATE			5-10%
CAS-No.: 6834-92-0	EC No.: 229-912-9		Registration Number: 01-2119449811-37
Classification (EC 1272/2008) Skin Corr. 1B - H314 STOT SE 3 - H335		Classification (67/548/EEC) C;R34 Xi;R37	
TETRASODIUM GLUTAMATE			1-5%
CAS-No.: 51981-21-6	EC No.: 257-573-7		
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Irrit. 2 - H319		Classification (67/548/EEC) Xi;R36/38.	

ALKYL IMINOACID SALT 50% SOLN			1-5%
CAS-No.: 94441-92-6	EC No.: 305-318-6		
Classification (EC 1272/2008) Not classified.		Classification (67/548/EEC) Xi;R36/38.	
TETRASODIUM EDTA			1-5%
TETRASODIUM EDTA CAS-No.: 64-02-8	EC No.: 200-573-9		1-5%

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Move into fresh air and keep at rest.

Ingestion

Rinse mouth thoroughly. Do not induce vomiting. Get medical attention.

Skin contact

Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention promptly if symptoms occur after washing.

Eye contact

Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

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

General information

Seek medical attention for all burns, regardless how minor they may seem.

Inhalation

Upper respiratory irritation.

Ingestion

May cause chemical burns in mouth and throat.

Skin contact

Burning pain and severe corrosive skin damage.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

4.3. Indication of any immediate medical attention and special treatment

needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Fire or high temperatures create: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency

procedures

Use protective gloves, goggles and suitable protective clothing.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Absorb with inert, damp, non-combustible material, then flush area with water.

6.4. Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Store in closed original container at temperatures between 0°C and 40°C.

Storage Class

Corrosive storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA	- 8 Hrs	STEL	- 15 Min	Notes
SODIUM SILICATE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

Ingredient Comments

DNE

WEL = Workplace Exposure Limits

DISODIUM METASILICATE (CAS: 6834-92-0)

Industry	Dermal	Long Term	1.49	mg/kg/day
Industry	Inhalation.	Long Term	6.22	mg/m3
Consumer	Dermal	Long Term	0.74	mg/kg/day
Consumer	Inhalation.	Long Term	1.55	mg/m3
Consumer	Oral	Long Term	0.74	

8.2. Exposure controls

Protective equipment



Hand protection

Protective gloves must be used if there is a risk of direct contact or splash.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact.

Hygiene measures

Wash promptly if skin becomes contaminated. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

AppearanceLiquidColourStraw.OdourCharacteristic.SolubilityCompletely soluble in waterRelative density1.22 @ 20°CpH-Value, Conc. Solution>11.5

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Exothermic reaction with: Acids.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

The solution is strongly alkaline and reacts with strong acids with heat generation.

10.5. Incompatible materials

Materials To Avoid

Strong acids.

10.6. Hazardous decomposition products

Fire or high temperatures create: Ammonia or amines. Carbon monoxide (CO). Carbon dioxide (CO2). Nitrous gases (NOx).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin Corrosion/Irritation:

Extreme pH.

≥ 11.5Corrosive to skin.

Serious eye damage/irritation:

Skin corrosive; corrosivity to eyes is assumed. No testing is needed.

Inhalation

Upper respiratory irritation.

Ingestion May cause discomfort if swallowed.

Skin contact

Causes severe burns.

Eye contact

Extreme irritation of eyes and mucous membranes, including burning and tearing.

Toxicological information on ingredients.

DISODIUM METASILICATE (CAS: 6834-92-0)

Acute toxicity:

Acute Toxicity (Oral LD50) 1280 mg/kg Rat

SODIUM SILICATE (CAS: 1344-09-8)

Acute toxicity:

Acute Toxicity (Oral LD50) > 1300 mg/kg Rat

TETRASODIUM EDTA (CAS: 64-02-8)

Acute toxicity:

Acute Toxicity (Oral LD50) 3030 mg/kg Rat

Acute Toxicity (Dermal LD50) > 5000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50) 4.14 mg/l (dust/mist) Rat 4 hours

TETRASODIUM GLUTAMATE (CAS: 51981-21-6)

Toxic Dose 1 - LD 50 >2000 mg/kg (oral rat)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product is not expected to be hazardous to the environment.

12.1. Toxicity

Acute Toxicity - Fish Not determined.

Ecological information on ingredients.

DISODIUM METASILICATE (CAS: 6834-92-0)

Acute Toxicity - Fish LC50 96 hours 180 mg/l Brachydanio rerio (Zebra Fish) Acute Toxicity - Aquatic Invertebrates EC50 48 hours 1700 mg/l Daphnia magna Acute Toxicity - Aquatic Plants EC50 72 hours 207 mg/l Scenedesmus subspicatus

TETRASODIUM EDTA (CAS: 64-02-8)

LC 50, 96 Hrs, Fish mg/l >100

TETRASODIUM GLUTAMATE (CAS: 51981-21-6)

Acute Toxicity - Fish LC50 96 hours > 100 mg/l Onchorhynchus mykiss (Rainbow trout) Acute Toxicity - Aquatic Invertebrates EC50 48 hours > 100 mg/l Daphnia magna

12.2. Persistence and degradability

Degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

The product does not contain any substances expected to be bioaccumulating.

12.4. Mobility in soil

Mobility:

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

14.2. UN proper shipping name

Proper Shipping Name

CORROSIVE LIQUID, N.O.S. (sodium silicate)

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
IMDG Class	8
ICAO Class/Division	8
Transport Labels	
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14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant No.

14.6. Special precautions for user

(E)

Tunnel Restriction Code

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC

<u>Code</u>

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for

the substance or mixture

Uk Regulatory References

Chemicals (Hazard Information & Packaging) Regulations.

Statutory Instruments

Control of Substances Hazardous to Health.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

General information

Only trained personnel should use this material.

Revision Date	16/07/2013
Revision	2.0
Supersedes date	27/04/2012
Risk Phrases In Full	
R34	Causes burns.
R35	Causes severe burns.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
Hazard Statements In Full	
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
H335	May cause respiratory irritation.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.