SAFETY DATA SHEET

PRE-SOAK POWDER

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name PRE-SOAK POWDER

Product number C868

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
FAX: +44 (0)1283 225731
sales@arrowchem.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 777 8505 330

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards
Not Classified

Health hazards
Skin Corr. 1B - H314 Eye Irrit. 2 - H319

Environmental hazards
Not Classified

Classification (67/548/EEC or 1999/45/EC)
Xi;R36/38.

2.2. Label elements

Pictogram

Signal word Danger

Hazard statements

H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H290 May be corrosive to metals.

PRE-SOAK POWDER

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.
P260 Do not breathe dust.

Contains DISODIUM METASILICATE

Detergent labelling < 5% anionic surfactants, < 5% non-ionic surfactants, < 5% phosphates

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

SODIUM CARBONATE **30-60%**

CAS number: 497-19-8 **EC number:** 207-838-8 **REACH registration number:** 01-2119485498-19-0000

Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Irrit. 2 - H319	Xi;R36

DISODIUM METASILICATE **5-10%**

CAS number: 6834-92-0 **EC number:** 229-912-9 **REACH registration number:** 01-2119449811-37

Classification	Classification (67/548/EEC or 1999/45/EC)
Met. Corr. 1 - H290 Skin Corr. 1B - H314 STOT SE 3 - H335	C;R34 Xi;R37

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 affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.

Skin contact

Rinse immediately with plenty of water. Remove contaminated clothing. Get medical attention if irritation persists after washing.

Eye contact

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

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

General information

Chemical burns must be treated by a physician.

PRE-SOAK POWDER

Inhalation

This product is corrosive. Burns can occur. May cause coughing and difficulties in breathing. May cause discomfort. Burning sensation in mouth.

Ingestion

Corrosive. Causes severe burns. May cause chemical burns in mouth and throat.

Skin contact

Causes severe skin burns and eye damage.

Eye contact

Causes severe skin burns and eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with the following media: Water spray, fog or mist. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxygen.

5.3. Advice for firefighters

Protective actions during firefighting

No specific firefighting precautions known.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Do not touch or walk into spilled material. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Provide adequate ventilation. Wear protective clothing, gloves, eye and face protection.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Avoid generation and spreading of dust.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

May be corrosive to metals. Avoid contact with skin, eyes and clothing. Do not breathe dust. Wear protective clothing, gloves, eye and face protection. Avoid spilling. Wash hands thoroughly after handling. Provide adequate ventilation. Prevent accumulation of dust.

7.2. Conditions for safe storage, including any incompatibilities

PRE-SOAK POWDER

Storage precautions

Store at temperatures between 4°C and 40°C. Keep only in the original container. Keep container tightly closed and dry. Store in a well-ventilated place. Store locked up.

Storage class

Corrosive storage.

7.3. Specific end use(s)

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

Occupational exposure limits

Long-term exposure limit (8-hour TWA): mg/m3

Short-term exposure limit (15-minute): 2.

SODIUM CARBONATE (CAS: 497-19-8)

DNEL	Industry - Inhalation; Long term : 10 mg/m3

DISODIUM METASILICATE (CAS: 6834-92-0)

DNEL	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

MONOSODIUM PHOSPHATE (CAS: 7558-80-7)

DNEL	General population - Inhalation; Long term systemic effects: 3.04 mg/m³ Workers - Inhalation; Long term systemic effects: 4.07 mg/m³
PNEC	- STP; 50 mg/l - Fresh water; 0.05 mg/l - Marine water; 0.005 mg/l - Intermittent release; 0.5 mg/l

8.2. Exposure controls

Protective equipment

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber).

Hygiene measures

Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Powder

PRE-SOAK POWDER

Colour

White.

Odour

No characteristic odour.

9.2. Other information

Other information

Not determined.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

10.4. Conditions to avoid

There are no known conditions that are likely to result in a hazardous situation.

10.5. Incompatible materials

Materials to avoid

Avoid contact with acids and acidic materials. Prolonged contact with aluminium,magnesium,alkali metals may cause - reaction and gas generation/pressure build up.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Oxygen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation

This product is corrosive.

Ingestion

May cause chemical burns in mouth, oesophagus and stomach.

Skin contact

Causes severe skin burns and eye damage.

Eye contact

Causes severe skin burns and eye damage.

PRE-SOAK POWDER

Toxicological information on ingredients.

SODIUM CARBONATE

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)

2,800.0

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)

2000.01

Species

Rabbit

ATE dermal (mg/kg)

2000.01

DISODIUM METASILICATE

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)

5000.0

Species

Rat

ATE dermal (mg/kg)

5000.0

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.

SODIUM CARBONATE

Acute toxicity - fish

LC_{50}, 96 hours: 300 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates

, : 200-227 mg/l, Freshwater invertebrates, Freshwater invertebrates

DISODIUM METASILICATE

Acute toxicity - fish

LC50, 96 hours: 180 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates

EC_{50}, 48 hours: 1700 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC_{50}, 72 hours: 207 mg/l, Scenedesmus subspicatus

12.2. Persistence and degradability

Persistence and degradability

The product is expected to be biodegradable.

12.3. Bioaccumulative potential

PRE-SOAK POWDER

The product is not bioaccumulating.

Ecological information on ingredients.

SODIUM CARBONATE

The product is not bioaccumulating.

12.4. Mobility in soil

Mobility
The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

SODIUM CARBONATE

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods
Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	1759
UN No. (IMDG)	1759
UN No. (ICAO)	1759
UN No. (ADN)	1759

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	CORROSIVE SOLID, N.O.S. (disodium metasilicate)
Proper shipping name (IMDG)	CORROSIVE SOLID, N.O.S. (disodium metasilicate)
Proper shipping name (ICAO)	CORROSIVE SOLID, N.O.S. (disodium metasilicate)
Proper shipping name (ADN)	CORROSIVE SOLID, N.O.S. (disodium metasilicate)

14.3. Transport hazard class(es)

ADR/RID class	8
IMDG class	8
ADN class	8

Transport labels

14.4. Packing group

ADR/RID packing group	II

IMDG packing group II

ICAO packing group II

ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Tunnel restriction code (E)

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

Not applicable.

SECTION 15: Regulatory information

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

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended).

EU legislation

Commission Regulation (EU) No 453/2010 of 20 May 2010. 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 (as amended).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

SECTION 16: Other information

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 16/03/2015

Revision 1.0

Supersedes date 28/03/2011

Risk phrases in full

R22 Harmful if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R36/38 Irritating to eyes and skin.
R37 Irritating to respiratory system.
R8 Contact with combustible material may cause fire.

Hazard statements in full

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.