

Product GLASSWASH DETERGENT
 Revision date 07 July 2017
 Revision 1



Safety Data Sheet (SDS)

Section 1: Identification of the substance/preparation and of the company/undertaking

1.1 Product identifier

Product name GLASSWASH DETERGENT
Product no. 607
Synonyms, Trade names No information available.

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

Identified uses Cleaning agent.
Uses advised against No uses advised against are identified.

1.3 Details of the supplier of the safety data sheet

Supplier Kitchenmaster NI Ltd
 11 Comber Road
 Belfast
 BT8 8AN
 United Kingdom
 Tel: 028 9081477 02890812881
 sales@kitchenmaster-ni.com

Contact person

1.4 Emergency telephone number

Emergency telephone Emergency Telephone Number: 028 9081 4777 08:30 - 17:00 Monday to Thursday 08:30 - 16:30 Friday

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)
 Physical and chemical hazards Me. Corr 1 - H290
 Human health Skin Corr. 1B - H314, Eye Dam. 1 - H318
 Environment Not classified

2.2 Label elements

Contains disodium metasilicate
 sodium hydroxide
 potassium hydroxide

Detergent labeling <5% anionic surfactants

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 **Prevention**
 P234 Keep only in original container.
 P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.

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 or doctor/physician.

2.3 Other hazards

None known.

Section 3: Composition/identification of ingredients**3.1 Substance**

Not applicable.

3.2 Mixtures

Name	Product identifier	Reg. EU 1272/2008	%
disodium metasilicate	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr. 1B - H314, STOT SE 3 - H335	1-10%
pentasodium hydrogen C,C',C''-nitrilotris(methylphosphonate)	CAS-No.: 2235-43-0 EC No.: 218-791-8	Eye Irrit.2A - H319	1-10%
sodium hydroxide	CAS-No.: 1310-73-2 EC No.: 215-185-5	Skin Corr. 1A - H314, Eye Dam. 1 - H318, Me. Corr 1 - H290	0.01-0.9%
potassium hydroxide	CAS-No.: 1310-58-3 EC No.: 215-181-3	Acute Tox 4 - H302, Skin Corr. 1A - H314, Me. Corr 1 - H290	0.01-0.9%

The full text for all hazard statements are displayed in section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

Section 4: First aid measures**4.1 Description of first aid measures****General information**

As a general rule, in case of doubt or if symptoms persist, always call a doctor. Seek medical attention for all burns and eye injuries, regardless how minor they may seem. First aid personnel must be aware of own risk during rescue. Provide general first aid, rest, warmth and fresh air.

Inhalation

Move the exposed person to fresh air at once. If breathing is difficult, oxygen should be administered by qualified personnel. If not breathing, give artificial respiration. Get prompt medical attention.

Ingestion

Get medical attention immediately. Do not induce vomiting. Provided the patient is fully conscious, rinse mouth with water and give plenty of water to drink. Never give anything by mouth to an unconscious person. Artificial respiration and/or oxygen may be necessary.

Skin contact

Take off contaminated clothing and shoes immediately. Promptly flush contaminated skin with water. Continue to rinse for at least 15 minutes. Seek medical attention immediately.

Eye contact

SPEED IS ESSENTIAL. Avoid contaminating unaffected eye. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. Remove contact lenses if present and easy to do so. Get medical attention immediately.

4.2 Most important symptoms and effects, both acute and delayed**General information**

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

Inhalation

Irritating to respiratory system.

Ingestion

May cause chemical burns in mouth and throat. May cause severe internal injury.

Skin contact

Corrosive. Causes severe skin burns.

Eye contact

May cause irreversible eye damage.

4.3 Indication of any immediate medical attention and special treatment needed**Notes to the physician**

Treat symptomatically.

Section 5: Fire-fighting measures

5.1 Extinguishing media

Extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Water fog. Foam. Dry powder. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	No unsuitable extinguishing media identified.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic or irritating gases or vapours.
Unusual fire & explosion hazards	Irritating or corrosive vapors may be emitted during a fire. Do NOT breathe fumes. Contain run-off. In contact with metals generates hydrogen gas, which together with air can form explosive mixtures.
Specific hazards	During fire, gases hazardous to health may be formed. In the event of damage to packaging, floors may become slippery, avoid falls.

5.3 Advice for firefighters

Special fire fighting procedures	If possible, fight fire from protected position. Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Containers close to fire should be removed immediately or cooled with water.
Protective equipment for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Personal protective equipment conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Do not mix with other chemicals. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. In case of inadequate ventilation, use respiratory protection. Eliminate all sources of ignition.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Protection Agency or local authority.
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6.3 Methods and material for containment and cleaning up

Spill clean up methods	Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment DO NOT touch spilled material! Stop leak if possible without risk. Use non-metallic tools/containers for clean up. In case of spills, beware of slippery floors and surfaces. Absorb spillage with inert, damp, non-combustible material or use a liquid binding material. Place waste material into suitable labelled sealed containers for disposal. Remove waste promptly to a safe area. Flush with plenty of water to clean spillage area.
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6.4 Reference to other sections

Reference to other sections	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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Section 7: Handling and storage

7.1 Precautions for safe handling

Handling	Read and follow manufacturer's recommendations. Use personal protective equipment, see Section 8. Avoid contact with skin and eyes. Do not handle broken packages without protective equipment. Ensure adequate ventilation. If necessary, use local exhaust ventilation.
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Do not use contact lenses. Use only equipment and materials which are compatible with the product. Always wash hands after handling.

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions	Keep locked up and out of reach of children. Store in tightly closed original container in a cool, dry and well-ventilated place. Keep away from oxidizing agents and strong acids.
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.
Usage description	Use only according to directions.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
sodium hydroxide	WEL				2 mg/m ³	
sodium hydroxide	OEL				2 mg/m ³	
potassium hydroxide	WEL				2 mg/m ³	
potassium hydroxide	OEL				2 mg/m ³	

Ingredient comments	WEL - Workplace Exposure Limits - EH40/2005 Workplace exposure limits. OEL - Occupational Exposure Limit - Ireland, Occupational Exposure Limits 2016.
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8.2 Exposure Controls

Protective equipment



Engineering measures	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.
Respiratory equipment	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Use respirators and components tested and approved under appropriate government standards such as CEN (EU). If the respirator is the sole means of protection, use a full-face supplied air respirator. Self-contained breathing apparatus (EN 133). Consult manufacturer for specific advice. Use respiratory protection as specified by an industrial hygienist or other qualified professional.
Hand protection	Where hand contact with the product may occur the use of gloves approved to relevant standards (e.g. Europe: EN374) is recommended. (EU Directive 89/686/EEC). Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Gloves must be inspected prior to use. Suggested material: Butyl-rubber. Minimum layer thickness: 0.11 mm. Break through time: 480 min. Gloves must be inspected prior to use. Consult manufacturer for specific advice on material. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
Eye protection	Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).
Other protection	Wear appropriate clothing to prevent any possibility of skin contact. The selected clothing must satisfy the European norm standard EN 943. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Hygiene measures	DO NOT SMOKE IN WORK AREA! Wash hands after handling. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
Process conditions	Keep container tightly sealed when not in use. Ensure that eye flushing systems and safety showers are located close by in the work place.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Clear.
Odour	No information available.
Odour threshold - lower	No information available.
Odour threshold - upper	No information available.
pH-Value, Conc. Solution	14.00
pH-Value, Diluted solution	No information available.
Melting point	No information available.
Initial boiling point and boiling range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Flammability state	No information available.
Flammability limit - lower(%)	No information available.
Flammability limit - upper(%)	No information available.
Vapour pressure	No information available.
Vapour density (air=1)	No information available.
Relative density	1.104g/cm ³ @ 20.00 °C
Bulk density	No information available.
Solubility	Soluble in water.
Decomposition temperature	No information available.
Partition coefficient; n-Octanol/Water	No information available.
Auto ignition temperature (°C)	No information available.
Viscosity	No information available.
Explosive properties	Not classified as explosive.
Oxidising properties	No information available.

9.2 Other information

Molecular weight	No information available.
Volatile organic compound	No information available.
Other information	None noted.

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity	Corrosive to metals. Reaction with acids. Reaction with Oxidisers.
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10.2 Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions Reacts with acids. Attacks metals liberating flammable hydrogen gas. Avoid contact with strong oxidizers.
Hazardous polymerisation Unknown.
Polymerisation description Not applicable.

10.4 Conditions to Avoid

Conditions to avoid Heat, sparks, open flames, temperature extremes and direct sunlight. Avoid freezing.

10.5 Incompatible materials

Materials to avoid Avoid contact with oxidising substances and acids. Avoid contact with metals.

10.6 Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information No toxicological information for the overall finished product.

Acute toxicity (Oral LD50) DISODIUM METASILICATE (CAS 6834-92-0): 994 mg/kg, Rat. REACH dossier information.
Acute toxicity (Dermal LD50) SODIUM HYDROXIDE (CAS 1310-73-2): 325 mg/kg bw, Rabbit. REACH dossier information.
 DISODIUM METASILICATE (CAS 6834-92-0): > 3000 mg/kg, Rat. REACH dossier information. SODIUM HYDROXIDE (CAS 1310-73-2): 1350 mg/kg, Rabbit. IUCLID chemical data sheet.

Acute toxicity (Inhalation LD50) DISODIUM METASILICATE (CAS 6834-92-0): > 2.06 mg/l (vapours), Rat. REACH dossier information.

Serious eye damage/irritation Causes severe eye damage.

Skin corrosion/irritation No information available.

Respiratory sensitisation No information available.
Skin sensitisation No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Specific target organ toxicity - Single exposure:
STOT - Single exposure No information available.
Specific target organ toxicity - Repeated exposure:
STOT - Repeated exposure No information available.

Inhalation Irritating to respiratory system.
Ingestion May cause chemical burns in mouth and throat. May cause severe internal injury.
Skin contact Corrosive. Causes severe skin burns.
Eye contact May cause irreversible eye damage.
Waste management Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Routes of entry No information available.
Target organs Eyes, skin, digestive system, respiratory system.

Aspiration hazards: No information available.
Reproductive toxicity: No information available.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity - Fish	DISODIUM METASILICATE (CAS 6834-92-0) LC50: (96 hours) 210 mg/l, Brachydanio rerio (Zebra Fish). REACH dossier information. SODIUM HYDROXIDE (CAS 1310-73-2) LC50: (96 hours) 45.4 mg/l, Oncorhynchus mykiss (Rainbow trout.) IUCLID chemical data sheet.
Acute toxicity - Aquatic invertebrates	DISODIUM METASILICATE (CAS 6834-92-0) EC50: (48 hours) 7.8 pH, Daphnia magna. REACH dossier information. SODIUM HYDROXIDE (CAS 1310-73-2) EC50: (48 hours) 40.4 ug/L, Ceriodaphnia sp. REACH dossier information.
Acute toxicity - Aquatic plants	DISODIUM METASILICATE (CAS 6834-92-0) EC50: (72 hours) 207 mg/l, Desmodesmus subspicatus. REACH dossier information.
Acute toxicity - Microorganisms	No information available.
Chronic toxicity - Fish	No information available.
Chronic toxicity - Aquatic invertebrates	No information available.
Chronic toxicity - Aquatic plants	No information available.
Chronic toxicity - Microorganisms	No information available.
Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Eco toxicological information	No ecological toxicity available on the overall finished product. The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

12.2 Persistence and degradability

Degradability	The degradability of the product has not been stated.
Biological oxygen demand	No information available.
Chemical oxygen demand	No information available.

12.3 Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Bioaccumulation factor	No information available.
Partition coefficient; n-Octanol/Water	No information available.

12.4 Mobility in soil

Mobility	Soluble in water.
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12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The product does not contain any PBT or vPvB Substances.
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12.6 Other adverse effects

Other adverse effects	None known.
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Section 13: Disposal considerations

Waste management	Dispose of in accordance with local and national regulations. When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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13.1 Waste treatment methods

Disposal methods	Dispose in a safe manner in accordance with local/national regulations. For waste disposal, use a licensed industrial waste disposal agent.
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Section 14: Transport information

14.1 UN number

UN no. (ADR)	UN1760
UN no. (IMDG)	UN1760

UN no. (IATA) UN1760

14.2 UN proper shipping name

ADR proper shipping name CORROSIVE LIQUID, N.O.S. (disodium metasilicate + [nitrilotris(methylene)]trisphosphonic acid, potassium salt)
 IMDG proper shipping name CORROSIVE LIQUID, N.O.S. (disodium metasilicate + [nitrilotris(methylene)]trisphosphonic acid, potassium salt)
 IATA proper shipping name CORROSIVE LIQUID N.O.S. (disodium metasilicate + [nitrilotris(methylene)]trisphosphonic acid, potassium salt)

14.3 Transport hazard class(es)

ADR class 8
 IMDG class 8
 IATA class 8

Transport labels



14.4 Packing group

ADR/RID/ADN packing group II
 IMDG packing group II
 IATA packing group II

14.5 Environmental hazards

ADR No
 IMDG No
 IATA No

14.6 Special precautions for user

EMS F-A, S-B
 Emergency action code A3
 Hazard no. (ADR) 80
 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

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. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006.

Approved code of practice Workplace Exposure Limits Guidance Note EH40/2005.
 2016 Code of Practice for the Chemical Agents Regulations in accordance with section 60 of the Safety, Health and Welfare at Work Act 2005 (No. 10 of 2005).

Chemical safety assessment No chemical safety assessment has been carried out.

Section 16: Other information

General information This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010
Revision comments This is first issue
Revision date 07 July 2017
Revision 1

Safety data sheet status

Approved.

Hazard statements in full

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H290	May be corrosive to metals.
H318	Causes serious eye damage.

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.