Product	Destain Powder 208
Revision date	24 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	**Destain Powder 208**
Product no.	**208**
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	Any other purpose.

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
Contact person	sales@kitchenmaster-ni.com

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	Not classified
Human health	Acute Tox 4 - H302, Skin Corr. 1B - H314, Eye Dam. 1 - H318
Environment	Not classified

2.2 Label elements

Contains

disodium carbonate, compound with hydrogen peroxide (2:3)
disodium metasilicate

Label in accordance with (EC) no. 1272/2008

Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statements

Prevention
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.
P363 Wash contaminated clothing before reuse.

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 carbonate, compound with hydrogen peroxide (2:3)	CAS-No.: 15630-89-4 EC No.: 239-707-6	Acute Tox 4 - H302, Eye Dam. 1 - H318, Ox Sol 3- H272	30-60%
disodium metasilicate	CAS-No.: 6834-92-0 EC No.: 229-912-9	Skin Corr. 1B - H314, STOT SE 3 - H335	10-30%
sodium carbonate	CAS-No.: 497-19-8 EC No.: 207-838-8 REACH Reg No.: 01-2119485498-19-0000	Eye Irrit.2A - H319	10-30%
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	CAS-No.: 68439-57-6 EC No.: 270-407-8	Skin Irrit.2 - H315, Eye Irrit.2A - H319, Aquatic Chronic 2 - H411	0.1-1%

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 If inhaled, remove to fresh air. Keep person warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and seek medical attention.

Ingestion If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person. Do not induce vomiting.

Skin contact Remove affected person from source of contamination Remove contaminated clothing. In case of skin contact flush exposed area with copious amounts of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation develops or persists.

Eye contact Do not rub eye. Avoid contaminating unaffected eye. Rinse with a gentle stream water for at least 15 minutes. Hold eye lids open. Remove contact lenses if present and easy to do so. Get prompt medical attention.

4.2 Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation Inhalation of product dust may cause irritation to respiratory tract.

Ingestion May cause chemical burns in mouth and throat. Harmful if swallowed.

Skin contact Corrosive! Can cause redness, pain, and severe skin burns.

Eye contact Causes severe 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 fire-extinguishing media appropriate for surrounding materials. Water spray or CO2.
Unsuitable extinguishing media	Do not use dry chemicals or foams.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products	During fire, toxic gases (CO, CO2) are formed. May produce oxygen if heated to decomposition.
Unusual fire & explosion hazards	Slowly decomposes at temperatures exceeding 50°C forming sodium carbonate and hydrogen peroxide. Dust clouds may be explosive.
Specific hazards	Decomposition is accelerated by heat and may be accompanied by evolution of oxygen, which may enhance the combustion of other flammable materials. Containers can burst violently when heated, due to excess pressure build-up.

5.3 Advice for firefighters

Special fire fighting procedures	Ventilate closed spaces before entering them. Keep up-wind to avoid fumes. Avoid breathing fire vapours. If possible, fight fire from protected position.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) 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	Eliminate all sources of ignition. Read and follow manufacturer's recommendations. Avoid prolonged or repeated exposure. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of dust or vapours and contact with skin and eyes. Avoid raising powdered materials into airborne dust.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Spill clean up methods	Prevent further leakage or spillage if safe to do so. Ventilate and evacuate the area. Eliminate all ignition sources. Wear necessary protective equipment. Wear respirator if ventilation is not adequate. Sweep/shovel up residues. Take care not to raise dust. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

6.4 Reference to other sections

Reference to other sections	For waste disposal, see section 13. See section 1 for emergency contact. For personal protection, see section 8.

Section 7: Handling and storage

7.1 Precautions for safe handling

Handling	Avoid inhalation of dust and contact with skin and eyes. Use personal protective equipment, see Section 8. Ensure good dust ventilation during handling. Wear appropriate respirator when ventilation is inadequate. Keep away from heat, sparks and open flame. Keep away from flammable materials and incompatible substances. Avoid generation of dust clouds/accumulation of dust in work area. Never return spilled product into its original container for re-use. (Risk of decomposition).

7.2 Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from incompatible materials (see section 10).

Storage class Corrosive storage. Store separately from other chemicals.

7.3 Specific end use(s)

Specific end use(s) The identified uses are in section 1 of this Safety Data Sheet.

Usage description Use only according to directions. Replace and tighten cap after use.

Section 8: Exposure controls/Personal protection

8.1 Control parameters

Ingredient comments No exposure limits noted for ingredient(s).

8.2 Exposure Controls

Protective equipment

Engineering measures Provide adequate ventilation, including appropriate local extraction.

Respiratory equipment If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/145/143/149. The specific respirator selected must be based on contamination levels found in the work place. Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use respiratory protective components with combined A/P filter(s) for organic vapours/particulates. Consult manufacturer for specific advice.

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). Gloves must be inspected prior to use. Suggested material: PVC. Natural rubber. Layer thickness: 0.11 mm. Breakthrough time: >480 minutes. Consult manufacturer for advice.
Selection of the glove material depends on consideration of the penetration times, rates of diffusion and degradation, and concentration specific to the workplace. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

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 skin contact. The selected clothing must satisfy the European norm standard EN 943. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handing this product.

Hygiene measures Observe normal hygiene standards. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke. Wash hands after use.

Process conditions 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 Powder.

Colour White.

Odour No information available.

Odour threshold - lower No information available.

Odour threshold - upper No information available.

pH-Value, Conc. Solution	12.50
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	No information available.
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	Stable under recommended transport and storage conditions and under recommended use.

10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions

Hazardous reactions	Contains SODIUM PERCARBONATE:Avoid contact with metals, metallic ions, alkalis, reducing agents and organic matter (e.g. alcohol, terpenes) as this may produce self-accelerated thermal decomposition. Dust clouds may be explosive.
Hazardous polymerisation	No information available.
Polymerisation description	Unknown.

10.4 Conditions to Avoid

Conditions to avoid Heat, sparks, open flames, temperature extremes and direct sunlight.
Slowly decomposes at temperatures exceeding 50°C forming sodium carbonate and hydrogen peroxide.

10.5 Incompatible materials

Materials to avoid Contains SODIUM PERCARBONATE:Avoid contact with metals, metallic ions, alkalis, reducing agents and organic matter (e.g. alcohol, terpenes) as this may produce self-accelerated thermal decomposition.
Sodium percarbonate in water rapidly dissociates into hydrogen peroxide and sodium carbonate. Do not mix with other chemicals unless listed on directions.

10.6 Hazardous decomposition products

Hazardous decomposition products In case of fire, toxic gases (CO, CO2,) may be formed. When heated, vapours/gases hazardous to health may be formed. Sodium carbonate. Hydrogen peroxide. Oxygen.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicological information Harmful if swallowed.

Acute toxicity (Oral LD50) DISODIUM METASILICATE (CAS: 6834-92-0): 994 mg/kg, Rat. REACH dossier information. SODIUM CARBONATE (CAS: 497-19-8): 2800 mg/kg, Rat. REACH dossier information.

Acute toxicity (Dermal LD50) DISODIUM METASILICATE (CAS: 6834-92-0): > 3000 mg/kg Rat. REACH dossier information. SODIUM CARBONATE (CAS: 497-19-8): > 2000 mg/kg, Rabbit. REACH dossier information.

Acute toxicity (Inhalation LD50) DISODIUM METASILICATE (CAS: 6834-92-0): > 2.06 mg/l (vapours) Rat. REACH dossier information. SODIUM CARBONATE (CAS: 497-19-8): 2300 mg/m³ (aerosol) Rat, 2 hours. REACH dossier information.

Serious eye damage/irritation Causes serious 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 Inhalation of product dust may cause irritation to respiratory tract.

Ingestion May cause chemical burns in mouth and throat. Harmful if swallowed.

Skin contact Corrosive! Can cause redness, pain, and severe skin burns.

Eye contact Causes severe eye damage.

Waste management 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.

Name	LD50 oral	LD50 dermal	LD50 inhalation
sodium carbonate	2800.00mg/kg Rat 2800.00mg/kg Rat	>2000.00mg/kg Rat 2000.00mg/kg Rat	
Silicic acid, sodium salt	>2000.00mg/kg Rat		

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 CARBONATE (CAS: 497-19-8): LC50 96 hours 300 mg/l Lepomis macrochirus (Bluegill.) REACH dossier information.
Acute toxicity - Aquatic invertebrates	Disodium Metasilicate (CAS: 6834-92-0): EC50 (48 hours) 7.8 pH, Daphnia magna. REACH dossier information. SODIUM CARBONATE (CAS: 497-19-8): EC50 (48 hours) 200 mg/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 toxilogical information	The product is not classified as dangerous for the environment.

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.
Bioacculmation factor	No information available.
Partition coefficient; n-Octanol/Water	No information available.

12.4 Mobility in soil

Mobility	Soluble in water.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The product does not contain any PBT or vPvB substances.

12.6 Other adverse effects

Other adverse effects	None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
sodium carbonate	LC50 96 Hours 300.00mg/l Lepomis macrochirus (Bluegill)LC50 96 Hours 300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours 265.00mg/l Daphnia magnaEC50 48 Hours 265.00mg/l Daphnia magna	
Silicic acid, sodium salt	LC50 96 Hours 3185.00mg/l Brachydanio rerio (Zebra Fish)	EC50 48 Hours 4857.00mg/l Daphnia magna	

Section 13: Disposal considerations

Waste management	When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1 Waste treatment methods

Disposal methods	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.

Section 14: Transport information

14.1 UN number

UN no. (ADR)	UN3262
UN no. (IMDG)	UN3262
UN no. (IATA)	UN3262

14.2 UN proper shipping name

ADR proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate + Silicic acid, sodium salt)
IMDG proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (disodium metasilicate + Silicic acid, sodium salt)
IATA proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC N.O.S. (disodium metasilicate + Silicic acid, sodium 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	III
IMDG packing group	III
IATA packing group	III

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	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). Workplace Exposure Limits Guidance Note EH40/2005.
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 a first issue.
Revision date	24 July 2017
Revision	1
Safety data sheet status	Approved.

Hazard statements in full

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H318	Causes serious eye damage.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H411	Toxic to aquatic life with long lasting effects.
H290	May be corrosive to metals.

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.