

Product Economy Automatic Dishwashing Powder 250
 Revision date 11 June 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 Economy Automatic Dishwashing Powder 250
Product no. 250
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 Not classified
 Human health STOT SE 3 - H335, Skin Corr. 1B - H314, Eye Dam. 1 - H318
 Environment Aquatic Chronic 2 - H411

2.2 Label elements

Contains disodium metasilicate
Detergent labeling ≥30% anionic surfactants
 ≥15% <30% Phosphates

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



Signal word Danger

Hazard statements
 H314 Causes severe skin burns and eye damage.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements
Prevention
 P260 Do not breathe dust/fume/ gas/mist/vapours/spray.
 P280 Wear protective gloves/ protective clothing/eye protection/face protection.

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.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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	30-60%
sodium carbonate	CAS-No.: 497-19-8 EC No.: 207-838-8	Eye Irrit.2A - H319	10-30%
troclosene sodium	CAS-No.: 2893-78-9 EC No.: 220-767-7	Ox Sol 2- H272, Acute Tox 4 - H302, Eye Irrit.2A - H319, STOT SE 3 - H335, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	1-10%

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**

Provide general first aid, rest, warmth and fresh air. 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.

Inhalation

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion

If this product is ingested, remove victim immediately from source of exposure. Rinse mouth thoroughly. Do not induce vomiting. Provide fresh air, warmth and rest. Get medical attention. Never give anything by mouth to an unconscious person.

Skin contact

Remove victim immediately from source of exposure. Remove contaminated clothing, shoes and jewelry and wash before reuse. Wash the skin immediately with water. Obtain medical attention if irritation persists or if blistering occurs.

Eye contact

Do not rub eye. If this product contacts the eyes, gently flush eyes with water for at least fifteen (15) minutes, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do so. Avoid contaminating unaffected eye. Seek 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 dust may produce respiratory tract irritation.

Ingestion

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

Skin contact

Corrosive. Cause severe skin burns.

Eye contact

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

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 CO ₂ .
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, CO ₂) are formed.
Unusual fire & explosion hazards	Dust clouds may be explosive.
Specific hazards	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	Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. Eliminate all sources of ignition. Avoid inhalation of vapours and contact with skin and eyes. In case of inadequate ventilation, use respiratory protection. Do not touch or walk through spilled material. If necessary evacuate surrounding areas.
For emergency responders	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

6.2 Environmental precautions

Environmental precautions	Do not discharge onto the ground or into water courses. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
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6.3 Methods and material for containment and cleaning up

Spill clean up methods	Eliminate all ignition sources. Ventilate and evacuate the area. Wear appropriate personal protective equipment as specified in Section 8. Stop leak if possible without risk. DO NOT touch spilled material! 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. Wash thoroughly after dealing with a spillage.
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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 proper personal protection when handling (refer to Section 8). Do not handle broken packages without protective equipment. Do not use contact lenses. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Do not eat, drink or smoke when using the product. Wash thoroughly after handling.
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7.2 Conditions for safe storage, including any incompatibilities

Storage precautions	Keep upright, locked up and out of reach of children. Keep the product in its original container. Store in cool dry areas away from direct sunlight or sources of ignition. Store separate from other products which react with acids and strong oxidising agents.
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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. Replace and tighten cap after use.

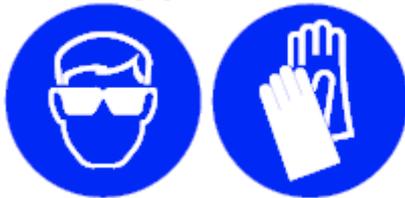
Section 8: Exposure controls/Personal protection

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, to ensure that the defined occupational exposure limit is not exceeded.

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. 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: Butyl 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 handling this product. Work clothing worn by personnel shall be laundered regularly. After contact with the product, all parts of the body that have been soiled must be washed.

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 Crystalline Powder.
Colour No information available.
Odour No information available.
Odour threshold - lower No information available.
Odour threshold - upper No information available.
pH-Value, Conc. Solution No information available.

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.
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10.2 Chemical stability

Stability	Stable under normal temperature conditions and recommended use.
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10.3 Possibility of hazardous reactions

Hazardous reactions	A risk of explosion and / or of toxic gas formation exists with the following substances: Ammonia, urea, ammonium compounds, bases, acids. Dust clouds may be explosive.
Hazardous polymerisation Polymerisation description	No information available. Unknown.

10.4 Conditions to Avoid

Conditions to avoid	Heat, sparks, open flames, temperature extremes and direct sunlight.
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10.5 Incompatible materials

Materials to avoid Do not mix with other chemicals unless listed on directions. Keep away from ammonia, urea, ammonium compounds, bases, acids, and oxidisers.

10.6 Hazardous decomposition products

Hazardous decomposition products When heated, vapours/gases hazardous to health may be formed. Decomposition is accelerated by heat and results in the evolution of oxygen which may enhance the combustion of other flammable materials.

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: 994 mg/kg Rat. SODIUM CARBONATE: 2800 mg/kg Rat. TROCLOSENE SODIUM: 1823 mg/kg Rat.

Acute toxicity (Dermal LD50) DISODIUM METASILICATE: > 3000 mg/kg Rat. SODIUM CARBONATE: > 2000 mg/kg Rabbit. TROCLOSENE SODIUM: > 5000 mg/kg Rat.

Acute toxicity (Inhalation LD50) DISODIUM METASILICATE: > 2.06 mg/l (vapours) Rat. SODIUM CARBONATE 2300 mg/m³ (aerosol) Rat 2 hours. TROCLOSENE SODIUM: > 0.27 mg/l (dust/mist) Rat 4 hours.

Serious eye damage/irritation Causes severe skin burns and 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 dust may produce respiratory tract irritation.

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

Skin contact Corrosive. Cause severe skin burns.

Eye contact Extreme irritation of eyes and mucous membranes, including burning and tearing. Corrosive to eyes.

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
disodium metasilicate	600.00mg/kg Rat		
sodium carbonate	2800.00mg/kg Rat	>2000.00mg/kg Rat	

Section 12: Ecological information**12.1 Toxicity**

Acute toxicity - Fish DISODIUM METASILICATE: 96 hours 210 mg/l Brachydanio rerio (Zebra Fish). SODIUM CARBONATE: 96 hours 300 mg/l Lepomis macrochirus (Bluegill). TROCLOSENE SODIUM: 96 hours > 1000 mg/l Lepomis macrochirus (Bluegill).

Acute toxicity - Aquatic invertebrates DISODIUM METASILICATE: 48 hours 7.8 pH Daphnia magna. SODIUM CARBONATE: 48

Acute toxicity - Aquatic plants	hours 200 mg/l Ceriodaphnia sp. TROCLOSENE SODIUM: 48 hours > 1000 mg/l Daphnia magna.
Acute toxicity - Microorganisms	DISODIUM METASILICATE: 72 hours 207 mg/l Desmodesmus subspicatus. TROCLOSENE SODIUM: 72 hours > 100 mg/l Skeletonema costatum.
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 contains a substance which is toxic to aquatic life with long lasting effects.
Eco toxicological information	No ecological toxicity available on the overall finished product.

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.

12.6 Other adverse effects

Other adverse effects	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
sodium carbonate	LC50 96 Hours 300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours 265.00mg/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.
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13.1 Waste treatment methods

Disposal methods	Dispose of waste and residues in accordance with local authority requirements. For waste disposal, use a licensed industrial waste disposal agent.
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Section 14: Transport information**14.1 UN number**

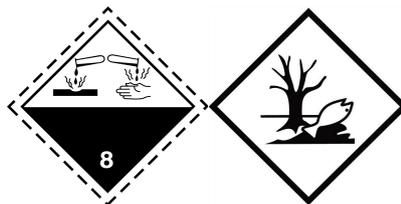
UN no. (ADR)	UN3253
UN no. (IMDG)	UN3253
UN no. (IATA)	UN3253

14.2 UN proper shipping name

ADR proper shipping name	DISODIUM TRIOXOSILICATE
IMDG proper shipping name	DISODIUM TRIOXOSILICATE
IATA proper shipping name	DISODIUM TRIOXOSILICATE

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	Yes
IMDG	Yes
IATA	Yes

14.6 Special precautions for user

EMS	F-A, S-B
Emergency action code	Not applicable.
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 a first issue.
Revision date	11 June 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.
H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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.