

System 800

NEWTON 808-RA

Salt Retarding & Waterproof Render Additive

Rev 1.0 - 13 March 2018

PRODUCT CODE - 808RA

1. Identification of the Substance/Mixture and of the Company/Undertaking**Product Identifier**

- Product name Newton 808-RA
- Product code 808RA

Relevant identified uses of the substance and uses advised against

- Use of substance/mixture Salt retarding & waterproof render additive

Details of the Supplier of the Material Safety Data Sheet

- Company Address Newton Waterproofing Systems, Newton House, 17-20 Sovereign Way, Tonbridge, Kent TN9 1RH
- Web www.newtonwaterproofing.co.uk
- Email address of the competent person info@newtonwaterproofing.co.uk
- Emergency telephone number +44 (0)1732 360095: 08:00/17:30 (GMT) Mon-Thur & 08:00-17:00 (GMT) Fri

2. Hazards Identification

- Refer to Section 16 for The explanation of the abbreviations used throughout this MSDS
The full list of Hazard Phrases stated throughout this MSDS

2.1 Classification of the Substance or Mixture Product Identifier

- Classification under CLP
 - H315: Causes skin irritation
 - H318: Causes serious eye damage
- Most important adverse effects Causes skin irritation. Causes serious eye damage

2.2 Label Elements

- Hazard statements
 - H315 Causes skin irritation
 - H318 Causes serious eye damage
- Signal words Danger
- Hazard pictograms GHS05: Corrosion



- Precautionary statements
 - P264: Wash hands and any exposed areas of the body thoroughly after handling
 - P280: Wear protective gloves, protective clothing, eye protection with side protection and face protection
 - P302 + 352: IF ON SKIN: Wash with plenty of soap and water
 - P305 + 351 + 338: 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 CENTRE or doctor
 - P321: Specific treatment (see information on this label)

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2.3 Other Hazards

- PBT / vPvB This product is not identified as a PBT / vPvB substance
- Other Hazards NDA

3. Composition/information on ingredients

3.2 Mixture This product is a mixture

Hazardous Substances

Chemical name	CAS	EINECS	REACH Registration Number	Percentage	Classification
Sodium metasilicate pentahydrate	10213-79-3	229-912-9	01-2119449811-37	1-10%	H290: May be corrosive to metals H314: Causes severe skin burns and eye damage H318: Causes serious eye damage H335: May cause respiratory irritation

Contains Sodium metasilicate

NB Please also refer to Section 8 Personal Protection / Exposure Controls

4. First Aid Measures

4.1 Description of First Aid Measures

- Skin contact Remove all contaminated clothes and footwear immediately unless stuck, wash immediately with plenty of soap and water
- Eye contact Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination
- Ingestion Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor
- Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

- Skin contact There may be irritation and redness at the site of contact
- Eye contact There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage
- Ingestion There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur
- Inhalation There may be irritation of the throat with a feeling of tightness in the chest.
- Delayed / immediate effects Immediate effects can be expected after short-term exposure

4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed

- Immediate / special attention Eye wash facilities should be available at the place of work

5. Fire-Fighting Measures

5.1 Extinguishing Media Suitable extinguishing media for other materials, etc. in the surrounding fire should be used. Use water spray to cool containers

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5.2 Special Hazards Arising from the Material

In combustion emits toxic fumes

5.3 Advice for Firefighters

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes

6. Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Refer to Section 8 of the MSDS for personal protection details.

Mark out the contaminated area with signage and prevent access by unauthorised persons. Do not attempt to take action without suitable clothing – see section 8 of this MSDS Turn leaking containers leak-side up to prevent the escape of material, and place in a leak proof container

6.2 Environmental Precautions

Do not discharge into drains or water courses. Contain the spillage using bunding

6.3 Methods and Materials for Containment and Cleaning Up

Absorb in dry earth or sand. Transfer to a sealable, labelled container for disposal by an appropriate method

6.4 Reference to Other Sections

Refer to Section 8 of the MSDS

7. Handling and Storage

7.1 Precautions for Safe Handling

a. Safe handling

Avoid direct contact with the material. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mist in the air

Do not eat, drink or smoke when handling. Wash hands after using the material

b. Prevention of handling incompatible substances or mixtures

Do not handle other substances or mixtures at the same time. Keep away from other substances and mixtures

c. Operations and conditions that could create new risks

Do not allow opened, part used or the container in use to come into contact with other materials including all surfaces around. Ensure the containers are securely closed and not at risk of damage during transport and storage in vehicles

d. Reduce risk of release to the environment

Ensure the floor at storage, transport and the work location will not allow access to drains or water courses. Lay heavy gauge plastic sheeting or similarly impervious protective covering. Contain and clean up spillage as Section 6.1 of the MSDS

7.2 Conditions for Safe Storage, Including Any Incompatibilities

a. Storage conditions

Store in a cool, well ventilated area. Keep container tightly closed, part used containers to be checked to ensure they are securely closed before being stored. Only store in the upright position. Part used containers to be stored on a bunding tray against the possibility of spread of the material. The floor of the storage area to be impermeable to prevent the escape of spillage / liquids

b. Control of the effects of weather, ambient pressure, temperature, sunlight, humidity and vibration

Ensure opened containers are in closed impervious outer containers against vibration spillage during transport when loading / unloading vehicles, during transport and moving from vehicle to the work location. Unopened containers to be protected against damage during the same movements

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c. Storage with other substances and mixtures

Store in the original packaging. Store in outer containers against falling / touching other materials and in an allocated location

d. Storage room design, quantity limits, ventilation and packaging compatibilities

Storage room to be dry, cool, well ventilated, and constructed to have impermeable floors and walls to prevent the escape of spillages into the environment

e. Other considerations

Use of the stock must be by manufacturing date or expiry date rotation. Containers past their expiry date must be removed for disposal according to Section 13 of the MSDS. No other data available

7.3 Specific End Use(es)

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8. Exposure Controls / Personal Protection

8.1 Control Parameters

Workplace Exposure Limits (WEL)

Taken from the HSE EH40 Table:

no limit stated = not on EH40 if no 15 min STEL use 3x TWA

Comments Key

Carc: Capable of causing cancer and / or heritable genetic damage

Sen: Capable of causing occupational asthma

Sk: Can be absorbed through the skin, assigned here to substances for which there are concerns that dermal absorption will lead to systematic toxicity

Substance	Long-term exposure limit ((8hr TWA reference period)		Short-term exposure limit (15 minute reference period)		Comments
	ppm	mg / m ³	ppm	mg / m ³	
Sodium metasilicate pentahydrate CAS No: 10213-79-3	Not listed on the HSE EH40 WEL Table				N/A

DNEL / PNEC

NDA

8.2 Exposure Controls

8.2.1 Appropriate Engineering Controls

Ensure there is sufficient ventilation in the area. The floor must be impermeable to prevent the escape of liquids, laying impermeable protective covering if in doubt

Ensure all other persons are notified and remain clear of the work area

8.2.2 Personal Protective Equipment

a. Eye / face protection

Tightly fitting safety goggles EN166. Ensure eye bath facilities are available

b. Skin protection

(i) Hand Protection

Material of gloves

To be impermeable and resistant to the product / substance / mixture.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC, this being repealed by EU 2016/425 on 21/04/2018, and the resultant standard EN 374

The selection of the suitable gloves does not only depend upon the material, but also further marks of quality and varies from manufacturer to manufacturer

Break through, and other characteristics, depending upon material density and the glove type, and must be determined in each case

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	Gloves must be inspected prior to each time used and must be replaced when damaged or worn out
	Impervious nitrile gloves. Alkali resistant
Penetration time of gloves	Breakthrough time of the glove material > 8 hours
(ii) Other	Protective clothing
	Good hygiene measures should be followed at all times
c. Respiratory protection	Mouth & nose filter face mask, vapour filter AI, or A1P2 if particulates / dust is present. Self-contained breathing apparatus must be available in case of emergency
d. Thermal hazards	NDA

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

• Appearance	
(i) Form	Liquid
(ii) Colour	Yellow
• Odour	Characteristic odour
• Odour threshold	NDA
• pH	11-12
• Melting point/range °C	NDA
• Freezing point/range °C	NDA
• Initial boiling point/range °C	NDA
• Flash point/self-ignition °C	NDA
• Evaporation rate	NDA
• Flammability (solid, gas)	NDA
• Flammability limits, lower %	NDA
• Flammability limits, upper %	NDA
• Auto flammability °C	NDA
• Decomposition temperature	NDA
• Explosive properties	NDA
• Oxidising properties	NDA
• Vapour pressure	NDA
• Vapour density	NDA
• Relative density	1.03
• Solubility in water	Miscible
• Partition coefficient n-octanol/water	NDA
• Also soluble in	NDA
• Viscosity	Highly viscous
• VOC g/l	NDA

9.2 Other Information **NDA**

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10. Stability and Reactivity

- 10.1 Reactivity Stable under recommended transport or storage conditions
- 10.2 Chemical Stability Stable under recommended transport or storage conditions and when protected against the materials or conditions listed below
- 10.3 Possibility of Hazardous Reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to the materials and conditions listed below
- 10.4 Conditions to Avoid Heat
- 10.5 Incompatible Materials to Avoid Strong oxidising agents. Strong acids
- 10.6 Hazardous Decomposition Products In combustion emits toxic fumes

11. Toxicological Information

11.1 Information on Toxicological Effects

- Acute toxicity

Hazardous ingredients

Hazardous Ingredient	Test			Result
Sodium metasilicate pentahydrate	Oral	Mouse	LD50	770 mg/kg
	Oral	Rat	LD50	1,280 mg/kg

Relevant hazards for product

Hazard	Route	Basis
Skin corrosion / irritation	Dermal Route Migration	Hazardous: calculated
Serious eye damage / irritation	Optical	Hazardous: calculated

Excluded hazards for product

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 3)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 2)	-	Based on available data the classification criteria is not met
Acute toxicity (ac. tox. 1)	-	Based on available data the classification criteria is not met
Respiratory/skin sensitisation	-	Based on available data the classification criteria is not met
Germ cell mutagenicity	-	Based on available data the classification criteria is not met
Carcinogenicity	-	Based on available data the classification criteria is not met
Reproductive toxicity	-	Based on available data the classification criteria is not met
STOT single exposure	-	Based on available data the classification criteria is not met
STOT repeated exposure	-	Based on available data the classification criteria is not met
Aspiration hazard	-	Based on available data the classification criteria is not met

Symptoms / routes of exposure

- Skin corrosion / irritation There may be irritation and redness at the site of contact
- Serious eye damage / irritation There may be irritation and redness. The eyes may water profusely
- Ingestion There may be soreness and redness of the mouth and throat
- Inhalation There may be irritation of the throat with a feeling of tightness in the chest
- Delayed / immediate Immediate effects can be expected after short-term exposure

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12. Ecological Information

12.1 Ecotoxicity

Hazardous ingredients	Test		Results
Sodium metasilicate pentahydrate	Daphnia magna	48H EC50	1,700 mg/l
	Scenedesmus Subspicatus	72H ErC50	207 mg/l
	Zebrafish (Brachydanio rerio)	96H LC50	180 mg/l

- 12.2 Persistence and Biodegradability Biodegradable
- 12.3 Bioaccumulative Potential No bioaccumulation potential
- 12.4 Mobility in Soil Readily absorbed in soil
- 12.5 Results of PBT & vPvT Assessment Not identified as a PBT/vPvB substance
- 12.6 Other Adverse Effects Negligible ecotoxicity

13. Disposal Considerations

13.1 Waste Treatment Methods

- Recovery operations Treat as SECTION 6: Accidental Release Measures
- Disposal method for material Transfer to a suitable closed container for storage / isolation and arrange for collection by a specialist disposal organisation. The closed containers to be labelled with the contents
- Disposal of packaging 4 litre screw capped plastic container, wash out into the dilution of the next container opened, cut the container against unauthorised use and then dispose to plastic recycling. If not washed out treat the same as disposal of the material as above
- Waste code number Undiluted material, including spillages: 16 10 03
Diluted material, including spillages: 16 10 01
- Special precautions for the disposal method Ensure substances or mixtures are not mixed with other materials and not held in the same outer container with other materials
- NB The user's attention is drawn to the possible existence of regional or national regulations regarding disposal

14. Transport Information

- 14.1 UN Number N/A
- 14.2 UN Proper Shipping Name N/A
- 14.3 Transportation Hazard Class(es) This product does not require a classification for transport
- 14.4 Packing Group N/A
- 14.5 Environmental Hazards N/A
- 14.6 Special Precautions for User N/A
- 14.7 Transport in Bulk According to:
- (i) Annex II of Marpol N/A
 - (ii) The IBC Code N/A

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance, Mixture or Article

COMMISSION REGULATION (EU) No 2015/830 of 28/05/2015 amending Regulation (EC) No 1907/2006 and repealing (EU) 453/2010 20 May 2010 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/ EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC

- Other regulations, limitations and prohibitive regulations

N/A

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out

16. Other Information

Other Information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830. This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship

Phrases Used in Sections 2 & 3

H290: May be corrosive to metals

H314: Causes severe skin burns and eye damage

H315: Causes skin irritation

H318: Causes serious eye damage

H335: May cause respiratory irritation

Notice

The above mentioned data correspond to our present state of knowledge and experience. The safety data sheet serves as description of the products in regard to necessary safety measures. The indications have not the meaning of guarantees on properties. 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 other process

Abbreviations & Acronyms

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: EU Regulation 1272/2008: Classification, Labelling & packaging of chemical substances

DNEL: Derived No-Effect Level (REACH)

EC50 / ErC50: Test to determine substance concentrations resulting 50% reduction in growth rate of the test organism, e.g. aquatic algae or daphnia etc

EINECS: European Inventory of Existing Commercial Chemical Substances

HSE: (UK) Health & Safety Executive

LC50: Lethal Exposure, 50% affected

LD50: Lethal Dose, 50% affected

MSDS: Material Safety Data Sheet

N/A: Not Applicable

NDA: No Data Available

PBT: Persistent, Bioaccumulative and Toxic substances

vPvB: Very Persistent and very Bioaccumulative substances

PNEC: Predicted No-Effect Level (REACH)

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals:

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Regulation (EC) No 1907/2006

STEL: Short Term Exposure Limit

TWA: Time Weighted Averages

Changes Compared to the Previous Version

An asterisk (*) to the left side indicates that there is a change to the previous version