



SAFETY DATA SHEET REACTOR

Date: January 2020

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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name: Reactor

Product code: S310

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

Heavy duty powder for commercial carpet cleaning.

1.3 Details of the supplier of the safety data sheet

SUPPLIER: Cleaning Warehouse Ltd
Unit A10, The Square,
Grants Rd, Greenogue Business Park
Rathcoole, Dublin 24
D24H512

1.4 Emergency telephone number

Tel: 01- 8092166 **National Poison Centre, Beaumont**

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CHIP Regs.: Xi, R36/38

Classification under CLP Regs.: Not classified

2.2 Label elements

Label elements under CHIP:

Hazard symbols:

Risk Phrases: R36/38: Irritating to eyes and skin.

Safety phrases: S2: Keep out of reach of children. S24/25: Avoid contact with eyes and skin. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 Other hazards

PBT: this material does not contain any substance identified as a PBT or vPvB substance

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3. Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Hazardous ingredients:

CAS	EINECS	Classification CHIP	Classification CLP	Concentration %w/w
Sodium carbonate (REACH Reg. No.(01-2119485498-19)				
497-19-8	207-838-8		H319	15-30
Tetrasodium ethylene diamine tetra acetate (REACH Reg. No. 01-2119486762-27)				
64-02-8	200-573-9		H315; H318	5-10
Sodium metasilicate pentahydrate (REACH reg No 01-2119449811-37)				
6834-92-0	229-912-9	R34; R37	H290 ; H314;H318; H335	1-5
Ethoxylated alcohol C9/11 6EO				
68439-45-2			H302; H318	1-5
2-Methoxymethylethoxypropanol (REACH Reg. no. 01-2119450011-60)				
34590-94-8	252-104-2			1-5

See section 16 for full text of R phrases.

4. First aid measures

4.1 Description of first aid measures

Eye contact: Flush with clean water for at least 15 minutes. Seek medical advice.

Skin contact: Remove at once all contaminated clothing. Wash area with soap and water. Seek medical advice if irritation persists.

Ingestion: DO NOT induce vomiting. Give water to drink and seek immediate medical attention.

Inhalation: Remove from exposure, keep warm and at rest. If symptoms persist get medical attention.

4.2 Most important symptoms and effects both acute and delayed

Severe irritation to eyes with risk of possible damage. Irritation to skin which may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Product is not flammable although irritating fumes may be given off in the event of fire. Choice of extinguisher should be based on other surrounding materials.

Unsuitable agents:

5.2 Special hazards arising from the substance or mixture

Oxides of carbon, nitrogen and phosphorus may be produced due to thermal decomposition.

5.3 Advice for firefighters

Self-contained breathing apparatus should be worn.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising dust. Avoid contact with eyes and skin.

6.2 Environmental precautions

Significant discharge into drains or water courses should be notified to the appropriate authority.

6.3 Methods and material for containment and cleaning up

Small spillages may be rinsed away with plenty of water. Larger spillages should be contained, collected and transferred to plastic container for disposal.

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6./ cont..

6.4 Reference to other sections

See section 8 for protective equipment.

7. Handling and storage

7.1 Precautions for safe handling

Ensure adequate ventilation

7.2 Conditions for safe storage, including any incompatibilities

Store in original container, tightly closed. Keep in a dry place below 40°C.

7.3 Specific end use

See section 1

8. Exposure controls/personal protection

8.1 Control parameters

Substances assigned Workplace Exposure Limits

Name	type	Long term (8hrTWA)	Short term (15mins)
Dust, total	WEL	10mg/m ³	
Dust, respirable	WEL	4mg/m ³	
2-Methoxymethylethoxypropanol	WEL	50ppm(sk)	

(sk) = May be absorbed through skin

8.2 Exposure controls

Wear rubber gloves if skin contact is unavoidable. Wear eye protection to prevent liquid splashes if necessary. Avoid inhalation of dust.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Off-white powder

Odour: bouquet

Density at 20°C: 0.8 kg/ltr

Solubility: Completely soluble in water.

pH(1% solution):10.5-11.0

Flash point: N/A

Boiling point/range: N/A

Vapour pressure: N/A

Oxidising: no

9.2 Other information

No further relevant information

10. Stability and reactivity

10.1 Reactivity

Not reactive under normal conditions

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

Strong acids, reducing agents

10.6 Hazardous decomposition products

Oxides of carbon, nitrogen and phosphorus may be produced due to thermal decomposition.

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11. Toxicological information

11.1 Information on toxicological effects.

Eyes: Severe pain, redness and watering, possible damage.

Skin: Irritation, redness and defatting leading to cracking.

Ingestion: Sore throat and mouth, abdominal pain, vomiting.

Inhalation: Coughing, shortness of breath, irritation to membranes of nose and throat.

Toxic dose LD50 (oral, rat) Sodium carbonate 2800mg/kg; EDTA 1210-2150mg/kg; Sodium metasilicate 1280mg/kg; Ethoxylated alcohol 200-2000mg/kg; Methoxymethylethoxypropanol 5135mg/kg.

12. Ecological information

12.1 Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that release into the environment could have a damaging effect on aquatic organisms.

Ecotoxicity of ingredients: Sodium carbonate LC50 300mg/l (Iepomis macrochirus, 96hrs), EC50 265mg/l (Daphnia, 48 hrs);

Sodium metasilicate LC50 3185mg/l (fish, 96 hrs), EC50 4857mg/l (Daphnia, 48 hrs); Ethoxylated alcohol LC50 1-100mg/l (Fish, 96 hrs), EC50 1-100mg/l (Daphnia, 48 hrs).

12.2 Persistence and degradability

No data for product itself.

12.3 Bioaccumulative potential

Not expected to bioaccumulate.

12.4 Mobility in soil

Soluble in water.

12.5 Results of PBT and vPvB assessment

No components classed as PBT/vPvB by current criteria.

12.6 Other adverse effects

None known.

13. Disposal considerations

13.1 Waste treatment methods

Comply with local regulations. Do not allow concentrate to enter water systems.

14. Transport information

14.1 UN Number

Not classified as hazardous for transport.

14.2 UN Proper shipping name

14.3 Transport hazard class(es)

14.4 Packing group

14.5 Environmental hazards

14.6 Special precautions for user

15. Regulatory information

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

Detergents Regulations 2004/648/EC

Labelling; Contains less than 5% - non-ionic surfactants, enzymes, EDTA;
more than 30% - phosphates

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

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16. Other information

This safety data sheet has been prepared according to EU Commission Regulation 453/2010. The information supplied in this document is based on our present state of knowledge and is given in good faith. It is not intended and should not be construed as a specification or guarantee of specific properties. The responsibility remains with the user to comply with all relevant laws, regulations and directives, to make their own assessment of workplace risks and to determine the suitability of the product for a particular use or application.

The hazards information in this data sheet refers to the material as supplied and not to any subsequent dilution or mixture.

The full text of the R phrases referred to in section 3 are shown below. These classifications apply to the ingredients, in their concentrated form, which contribute to the classification of the product or mixture.

R20/22: Harmful by inhalation and if swallowed.

R22: Harmful if swallowed.

R34: Corrosive causes burns.

R36: Irritating to eyes.

R37: Irritating to respiratory system

R38: Irritating to skin.

R41: Risk of serious damage to eyes.

R42: May cause sensitisation by inhalation.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Goods by Road
CAS	Chemical Abstracts Service
CHIP	Chemicals (Hazard Information and Packaging) Regulations – Directives 1999/45/EC and 67/548/EC
CLP	Classification and Labelling of Chemicals – Regulation (EC) No. 1272/2008
CMR	Carcinogenic-mutagenic-toxic for reproduction
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods Code
LC50	Lethal Concentration, 50%
LD50	Lethal Dose, 50%
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
RID	Convention concerning International Carriage by Rail
WEL	Workplace Exposure Limit
VOC	Volatile Organic Compound