Revision date: 01 June 2025

SECTION 1: Substance and Supplier Details

1.1 Product identifier **RAGE Powder**

PRODUCT NAME: Formula code: 03-100406

1.2 Relevant identified uses: Carpet Cleaning General use

1.3 SUPPLIER: The Restoration Group Limited, 53 Wakefield Street, Onekawa, Napier 4110
06 835 0065

1.4 EMERGENCY CONTACT: National Poisons Centre Phone: 0800-764-766

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Text

Rage is not classified as Dangerous Goods for Transport

Rage is classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017

HNSO Approval Number: HSR002530
Classified under the group standard " Cleaning Products (Subsidiary Hazard) Group Standard 2017

2.2 Label elements

Signal word **DANGER**

Pictograms

GHS05

Hazard statements

6.3A Causes skin irritation.
8.3A Causes serious eye damage.

Precautionary statements

Prevention Statements:

P264 Wash thoroughly after handling.
P280 Wear protective gloves/eye protection/face protection.

Response Statements:

P302 + P352 IF ON SKIN: Wash with plenty of water.
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/doctor.
P321 Specific treatment (see on this label).
P362 Take off contaminated clothing and wash it before reuse.

2.3 Other hazards

This material is combustible, but will not ignite readily.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

3.2.1

Name of substance	Identifier	Wt%
Triphosphoric acid, sodium salt	CAS No 7758-29-4	75 - < 90
2-butoxyethanol	CAS No 111-76-2	5 - < 15
Diphosphoric acid, sodium salt	CAS No 7722-88-5	1 - < 5
Ethoxylated Alcohols	CAS No 68439-46-3	1 - < 5
Sodium Alkyl Naphthalene Sulfonate	CAS No Trade Secret	1 - < 5
Sodium 2-Mercaptobenzothiazole	CAS No 2492-26-4	< 1
Fragrance	CAS No Trade Secret	< 1

For full text of abbreviations: see SECTION 16.

SECTION 3: First Aid Measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Brush off loose particles from skin. Rinse skin with water/shower.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion
Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed
none

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media
water, foam, alcohol resistant foam, ABC-powder

Unsuitable extinguishing media
water jet

5.2 Special hazards arising from the substance or mixture
Deposited combustible dust has considerable explosion potential.

Hazardous combustion products
nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Remove persons to safety.

For emergency responders
Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill
Covering of drains. - Take up mechanically.

Advices on how to clean up a spill
Take up mechanically.

Other information relating to spills and releases
Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections
Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Take precautionary measures against static discharge. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

Warning

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Explosive atmospheres

Removal of dust deposits.

Incompatible substances or mixtures

Observe compatible storage of chemicals.

Consideration of other advice

Ventilation requirements

Use local and general ventilation.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Workplace Exposure Limits

Country-	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
NZ	2-butoxyethanol	111-76-2	PEL	50	240			29 CFR OSHA
NZ	particulates not otherwise regulated (PNOR)		PEL	1,766	15			29 CFR OSHA
NZ	particulates not otherwise regulated (PNOR)		PEL	529.5	5			29 CFR OSHA

notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless otherwise specified.

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average.

Relevant DNELs/DMELs/PNECs and other threshold levels
No data available.

8.2 Exposure controls

Appropriate engineering controls
General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection
Wear eye/face protection.

Skin protection

• hand protection
Wear protective gloves.

• other protection measures
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection
Particulate filter device (EN 143).

Environmental exposure controls
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	solid (powder)
Color	blue
Odor	floral

Other physical and chemical parameters

pH (value)	8.5
Melting point/freezing point	not determined
Initial boiling point and boiling range	171 °C at 1 atm
Flash point	68 °C at 1,013 hPa
Evaporation rate	not determined
Flammability (solid, gas)	
Vapor pressure	1 hPa at 20 °C
Density	not determined
Relative density	not determined
Solubility(ies)	not determined
Auto-ignition temperature	230 °C
Viscosity	not relevant (solid matter)
Explosive properties	none
Oxidizing properties	none

SECTION 10: Stability and Reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
triphosphoric acid, sodium salt	7758-29-4	inhalation: dust/mist	>0.39
2-butoxyethanol	111-76-2	oral	1,414
2-butoxyethanol	111-76-2	dermal	1,100
2-butoxyethanol	111-76-2	inhalation: vapor	11
diphosphoric acid, sodium salt	7722-88-5	oral	<2,000
Ethoxylated Alcohols	68439-46-3	oral	1,400

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation
Causes serious eye damage.

Respiratory or skin sensitization
Shall not be classified as a respiratory or skin sensitizer.

Summary of evaluation of the CMR properties
Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity none of the ingredients are listed

• IARC Monographs

Name of substance	Name acc. to inventory	CAS No	wt%	Classifica-ion	Number
2-butoxyethanol	2-Butoxyethanol	111-76-2	9.3	3	Volume 88

legend
3 Not classifiable as to carcinogenicity in humans.

Specific target organ toxicity (STOT)
Shall not be classified as a specific target organ toxicant.

Aspiration hazard
Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological Information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
triphosphoric acid, sodium salt	7758-29-4	EC50	>100 mg/l	aquatic invertebrates	48 hours
2-butoxyethanol	111-76-2	LC50	1,474 mg/l	fish	96 hours
2-butoxyethanol	111-76-2	EC50	1,550 mg/l	aquatic invertebrates	48 hours
2-butoxyethanol	111-76-2	ErC50	1,840 mg/l	algae	72 hours
Sodium Alkyl Naphthalene Sulfonate	Trade Secret	LC50	7,960 mg/l	fathead minnow (Pimephales promelas)	96 hours
Sodium Alkyl Naphthalene Sulfonate	Trade Secret	LC50	12,500 mg/l	bluegill (Lepomis macrochirus)	96 hours
Sodium Alkyl Naphthalene Sulfonate	Trade Secret	LC50	12,750 mg/l	bluegill (Lepomis macrochirus)	96 hours
Sodium Alkyl Naphthalene Sulfonate	Trade Secret	LC50	13,000 mg/l	bluegill (Lepomis macrochirus)	96 hours
Sodium Alkyl Naphthalene Sulfonate	Trade Secret	LC50	13,500 mg/l	bluegill (Lepomis macrochirus)	96 hours

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
triphosphoric acid, sodium salt	7758-29-4	LC50	>1,850 $^{mg}/_{l}$	fish	24 h
triphosphoric acid, sodium salt	7758-29-4	ErC50	160 $^{mg}/_{l}$	algae	4 d
triphosphoric acid, sodium salt	7758-29-4	EC50	69.2 $^{mg}/_{l}$	algae	4 d
2-butoxyethanol	111-76-2	EC50	297 $^{mg}/_{l}$	aquatic invertebrates	21 d
Sodium 2-Mercaptobenzothiazole	2492-26-4	EC50	857 $^{mg}/_{l}$	microorganisms	3 h

12.2 Persistence and degradability

Data are not available.

Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
2-butoxyethanol	111-76-2	carbon dioxide generation	18.3 %	3 d

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
2-butoxyethanol	111-76-2		0.81	
Sodium 2-Mercaptobenzothiazole	2492-26-4		2.42	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13 : Disposal Considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local waste management facilities.

SECTION 14: Transport Information

14.1	UN number	(not subject to transport regulations)
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	
	Class	-
14.4	Packing group	not relevant
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)

14.6 Special precautions for user
There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code
The cargo is not intended to be carried in bulk.

SECTION 15: Regulatory Information IDENTIFICATION

15.1 Safety, health and environmental regulations specific for the product in question

HNSO Approval Number: HSR002530
Classified under the group standard "Cleaning Products (Subsidiary Hazard) Group Standard 2017

6.3A skin corrosion/irritation
8.3A serious eye damage/eye irritation

Category	Rating	Description
Chronic	/	None.
Health	3	Major injury likely unless prompt action is taken and medical treatment is given.
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.
Personal protective equipment	-	

Fire Protection : Standard for the Identification of the Hazards of Materials for Emergency Response

Category	Degree of hazard	Description
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Health	3	Material that, under emergency conditions, can cause serious or permanent injury.
Instability	0	Material that is normally stable, even under fire conditions.
Special hazard		

SECTION 16: Other Information, including date of preparation or last revision

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HMIS	Hazardous Materials Identification System
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration

Abbr	Descriptions of used abbreviations
ppm	parts per million
STEL	short-term exposure limit
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative

Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.
Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H315	causes skin irritation
H318	causes serious eye damage

Disclaimer

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as a cleaning chemical. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 01 June 2020

Reason for Revision: Update to New Zealand regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database
EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014 Supplier
SDS: Masterblend USA, Rage Powder

END OF SAFETY DATA SHEET