



SAFETY DATA SHEET

REGENT 12XX

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CAS NUMBER: 10031-30-8
PROPER SHIPPING NAME: Not regulated
UN NUMBER: Not regulated

PRODUCT USE: Ingredient in bread improvers. Leavening acid for baking powder, self-raising flour, pancake flour, and prepared cracker mixes. An acidulate and buffer in dry beverage mixes.

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Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

Hazardous Substance according to the criteria of the New Zealand Hazardous Substances and New Organisms legislation and GHS 7th Edition.

HAZARD LABELLING DANGER



HAZARD CLASSIFICATION AND STATEMENTS

GHS
Serious eye damage - Category 1

HSNO
8.3A

Causes serious eye damage.

PRECAUTIONARY STATEMENTS

PREVENTION

Wear protective gloves/protective clothing/eye protection/face protection.

24 HOUR EMERGENCY CONTACT TELEPHONE 0800 CHEMCALL 0800 243 622

RESPONSE

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

DISPOSAL

Dispose of contents and packaging in accordance with relevant legislation.

See Section 13 of this SDS Document for more information.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%	HAZARDOUS
Phosphoric acid, calcium salt (2:1), monohydrate	10031-30-8	100	Yes

SYNONYMS: Calcium phosphate, monobasic, monophosphate; Calcium bis(dihydrogenphosphate) monohydrate; MCP-M.

Section 4 - FIRST AID MEASURES

Primary routes of exposure are by contact with skin and eyes, inhalation of dusts.

MAIN SYMPTOMS CAUSED BY EXPOSURE

Causes severe pain and damage to eyes. May be irritating to skin and respiratory tract.

EYE

Immediately flush eye with gentle running water for at least 15 minutes, protecting the unimpaired eye. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Get medical attention.

SWALLOWED

Rinse mouth. Do not induce vomiting. Give a glass of water to drink. Call the Poison Centre (0800 764 766) for advice. If symptoms persist, seek medical attention.

SKIN

Wash skin thoroughly with soap and plenty of water. Remove contaminated clothing and wash before reuse. If symptoms persist, seek medical attention.

INHALED

If inhaled, remove to fresh air. If breathing is difficult, give oxygen and keep at rest in a position comfortable for breathing. If symptoms such as difficulty breathing develops, seek medical attention.

Emergency shower and/or eyewash station required.

PPE required for first aiders: see Section 8.

NOTES TO PHYSICIAN

Treat symptomatically based on individual reactions of patient and judgement of doctor.

NOTE: In an emergency dial 111, for advice contact a Poison Centre (0800-764-766).

Section 5 - FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA**

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions: water, water spray, dry powder, foam, carbon dioxide (CO₂).

FIRE FIGHTING

Alert Fire Brigade and tell them location and nature of hazard.
Clear fire area of all non-emergency personnel.
Stay upwind. Eliminate ignition sources.
Wear breathing apparatus plus protective gloves.
Prevent spillage from entering drains or water courses.
Use firefighting procedures suitable for surrounding area.
DO NOT approach containers suspected to be hot.
Cool fire exposed containers with water spray from a protected location.
If safe to do so, remove containers from path of fire.
Equipment should be thoroughly decontaminated after use.

FIRE/EXPLOSION HAZARD

Non-combustible material.

HAZARDS FROM COMBUSTION PRODUCTS

Decomposes on heating emitting toxic fumes including oxides of phosphorus and oxides of calcium.

PERSONAL PROTECTIVE EQUIPMENT

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources.

HAZCHEM CODE

None

Section 6 - ACCIDENTAL RELEASE MEASURES

Only fully trained personnel should be involved in handling chemicals.
Personal Protective Equipment advice is contained in Section 8 of the SDS.

SPILL RESPONSE

Avoid generating dust. Increase ventilation. Move upwind.
Evacuate all unnecessary personnel. Eliminate all sources of ignition.
Personnel involved in the clean-up should wear full protective clothing.
Stop leak if safe to do so. Use spark-proof tools and equipment.
Sweep up or vacuum up (consider explosion-proof machines designed to be grounded during use).
Collect in a labelled chemical waste container and seal for disposal. See section 13 of the SDS.
Do NOT let product reach drains or waterways. In large quantities may be damaging to plants. If a significant amount does enter a waterway advise your local waste authority.
Wash spill area with plenty of water after removal of contaminant.

EMERGENCY RESPONSE PLANNING GUIDELINES (AIHA 2016)

No ERPGs have been set for this product.

Section 7 - HANDLING AND STORAGE**PROCEDURE FOR HANDLING**

Operators should be trained in procedures for safe use of this material.
Use good occupational work practice.
Avoid generating and breathing dust. Avoid contact with skin and eyes.
Avoid contact with incompatible materials.
Avoid all ignition sources. Avoid sources of heat.
Avoid physical damage to containers.
Handle and open container with care. Use in a well-ventilated area.
Always wash hands with soap and water after handling. Work clothes should be laundered separately.
Ensure an eye bath and safety shower are available and ready for use.

Observe good personal hygiene practices.
Wash thoroughly after handling.

SUITABLE PACKAGING

Original packaging. Multi walled paper bag with poly-liner.
Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

This product is hygroscopic and tends to cake on storage.
Avoid moisture and incompatible materials.

STORAGE REQUIREMENTS

Store in original packaging.
Store in an area that is cool, dry and sanitary.
Keep packaging tightly closed and out of direct sunlight.
Store away from dangerous goods and toxic substances.
Protect containers against physical damage and check regularly for leaks.

Section 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS

Source	Material	Measurement	Limit
New Zealand WES 2020	total dust	time weighted average (TWA)	10 mg/m ³
New Zealand WES 2020	respirable dust	time weighted average (TWA)	3 mg/m ³

No exposure limits set by Worksafe New Zealand or Safe Work Australia.

ENGINEERING CONTROLS

VENTILATION SYSTEM

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Refer to 'Local exhaust ventilation' found on the WorkSafe New Zealand website.

PERSONAL PROTECTION EQUIPMENT (PPE)

PERSONAL RESPIRATORS

An approved dust mask e.g. a P2 respirator, is recommended when using this product in dusty conditions. For more information see Australian/New Zealand Standard, AS/NZS 1715:2009 and AS/NZS 1716:2012. If in doubt, seek expert occupational hygiene advice.

SKIN PROTECTION

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Refer to AS/NZS 2161.1:2016 Occupational Protective Gloves - Selection, use and maintenance. Dispose of contaminated gloves after use. Ensure there is ready access to an emergency shower.

EYE PROTECTION

Use approved chemical safety goggles and a full-face shield where splashing is possible. Refer to Personal eye protection Part 1: Eye and face protectors for occupational applications, Australian/New Zealand Standard: AS/NZS 1337.1:2010. Maintain eye wash fountain in work area.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Colourless pearly scales or powder.

PHYSICAL PROPERTIES

PROPERTY	VALUE
State:	Solid
Odour:	Odourless
Molecular Weight:	252.07
Melting Range (°C):	1670
Boiling Range (°C):	Not available
Solubility in water (g/L):	Slightly soluble
pH (1% suspension):	~4.1
Specific Gravity (water=1):	0.59-0.64
Bulk Density:	Not available
Volatile Component (%vol):	Not applicable
Relative Vapor Density (air=1):	Not applicable
Vapour Pressure (kPa):	Not applicable
Autoignition Temp (°C):	Not available
Flash Point (°C):	Not applicable
Lower Explosive Limit (%):	Not applicable
Upper Explosive Limit (%):	Not applicable
Decomposition Temp (°C):	Not available
Viscosity:	Not available
Evaporation Rate:	Not available

Section 10 - CHEMICAL STABILITY AND REACTIVITY**CHEMICAL STABILITY**

Product is stable under normal conditions of use, storage and temperature.

CONDITIONS TO AVOID

Avoid excessive heat, direct sunlight, dusting conditions, moisture, freezing and high temperatures. Keep containers dry and tightly closed to avoid moisture absorption and contamination.

INCOMPATIBLE MATERIALS

No incompatible materials known.

HAZARDOUS DECOMPOSITION PRODUCTS

Thermal decomposition can lead to release of oxides of calcium and phosphorus.

HAZARDOUS REACTIONS

Hazardous polymerization will not occur.

Section 11 - TOXICOLOGICAL INFORMATION**ACUTE HEALTH EFFECTS****SWALLOWED**

Ingestion of large quantities may cause abdominal cramps, nausea, vomiting, diarrhoea.

EYE

Causes damage to eyes. Redness, pain, loss of vision.

SKIN

May be irritating to skin, redness, discomfort.

INHALED

Dusts may cause upper respiratory tract irritation, coughing, wheezing, difficulty breathing.

CHRONIC HEALTH EFFECTS

No data available.

TOXICITY AND IRRITATION DATA**TOXICITY**

Acute Oral Toxicity, Rat, LD₅₀: 17500 mg/kg

Acute Dermal Toxicity, Rabbit, LD₅₀: >2000 mg/kg

Acute Inhalation Toxicity, LC₅₀: No data available.

IRRITATION/ CORROSION

Eyes: Corrosive to eyes.

Skin: Mild irritation.

Sensitisation (respiratory/contact): No data available.

Carcinogenic effects: Not listed by NTP, IARC, OSHA or ACGIH.

Mutagenic effects: No data available.

Reproductive or developmental effects: No data available.

Aspiration hazard: No data available.

Specific target organ toxicity: No data available.

Section 12 - ECOLOGICAL INFORMATION**ECOTOXICITY**

No adverse ecological effects expected.

ECOTOXICITY DATA

Fish, (Rainbow trout), 96 hr LC₅₀: >1000 mg/L

Crustacean, (*Daphnia magna*), 48 hr EC₅₀: >485 mg/L

Algae: No data available.

BOD5 and COD: No data available.

Products of Biodegradation: No data available.

Toxicity of the Products of Biodegradation: No data available.

Special Remarks on the Products of Biodegradation: No data available.

The addition of large quantities of phosphates to waterways accelerates algae and plant growth in natural waters resulting in reduction in the water quality and depleting the water body of oxygen.

DO NOT discharge into sewer or waterways.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal of Hazardous Substances is subject to the Resource Management Act and Council By-Laws in addition to HSNO requirements. Do not dispose with household rubbish.

PRODUCT

Recycle wherever possible. Special hazard may exist - specialist advice may be required.

The product may be treated so that it is no longer hazardous. This includes incineration at an approved site or burial in a landfill in such a manner that it will not lead to any adverse health effects to any person or exceed any TEL (tolerable exposure limit) set by the Authority for this substance.

Treatment in a biological wastewater treatment system with prior approval and arrangement is also permissible providing that the substance is rendered non-hazardous and does not pose any adverse effects to human health or the environment. Alternatively consult an approved Waste Management company for disposal options.

PACKAGING

Recycle wherever possible. Special hazard may exist - specialist advice may be required.

Packaging should be rendered incapable of containing any material, then buried at an authorised landfill. Alternatively, consult an approved Waste Management company for disposal options or dispose of at an approved waste disposal facility.

Observe all label safeguards until containers are cleaned and destroyed.

Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Must not be disposed of in household rubbish.

Section 14 - TRANSPORT INFORMATION

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG.

Not classified as a Dangerous Good under NZS 5433:2020 Transport of Dangerous Goods on Land.

Section 15 - REGULATORY INFORMATION

REGULATIONS

Classified as hazardous according to the criteria of the New Zealand Hazardous Substances and New Organisms Act.

This product has been assigned to the following Group Standard by Interchem Agencies Limited:

Food Additives and Fragrance Materials (Subsidiary Hazard) Group Standard 2020.

EPA Approval number: HSR002578.

Certified handler, tracking and location compliance certification regulations do not apply.

For HSNO controls and Health and Safety at Work regulations for this substance refer to New Zealand EPA and Worksafe websites.

Phosphoric acid, calcium salt, monohydrate (CAS 10031-30-8) is found on the following regulatory lists: NZIoC, AIIC, EINECS

Section 16 - OTHER INFORMATION

NEW ZEALAND POISON CENTRE 0800 POISON (0800 764 766)

NZ EMERGENCY SERVICES: 111

Interpretation and Abbreviations

ACGIH - American Conference of Governmental Industrial Hygienists.

ACVM - Agricultural Chemicals and Veterinary Medicines.

AICS - Australian Inventory of Chemical Substances.

AOX - Absorbable organic halogens.

APF - Assigned Protection Factor.

BOD - Biochemical Oxygen Demand.

China IECSC - Inventory of Existing Chemical Substances Produced or Imported in China.

COD - Chemical Oxygen Demand.

DSL - Canadian Domestic Substances List.

EINECS - European Inventory of Existing Commercial Chemical Substances.

ENCS - Japanese Existing and New Chemical substances.

ERPG - Emergency Response Planning Guidelines.

GHS - Globally Harmonized System of Classification and Labelling of Chemicals.

IARC - International Agency for Research on Cancer.

ISHL - Japanese Industrial Safety and Health Law List of Chemicals.

Koc - soil organic carbon-water partition coefficient

Kow - octanol/water partition coefficient

LOEL - Lowest Observed Effect Level.

LD_{Lo} - Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a particular animal species).

NOAA - National Oceanic and Atmospheric Administration.

NOEC - No Observed Effect Concentration.

NTP - National Toxicology Program.

NZ CCID - New Zealand Chemical Classification and Information Database.

NZIoC - New Zealand Inventory of Chemicals.

OECD HPV - The Organisation for Economic Co-operation and Development High Production Volume Chemicals.

PEL - Permissible exposure limit.

PPE - Personal Protective Equipment.

Prop 65 - California Proposition 65 List of Chemicals.

RTECS - Registry of Toxic Effects of Chemical substances.

SCAPA - Subcommittee on Consequence Assessment and Protective Actions.

STEL - Short term exposure limit.

TOC - Total Organic Carbon.

TSCA - US Toxic Substances Control Act Existing Chemicals.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

VOC - Volatile Organic Compounds.

Sources of key data used to compile the datasheet:

Manufacturer's SDS

GESTIS substance database

Date of first issue: 2010.01

Date of Preparation/Review: 2021.04.12

Amendments: 5-yearly review. Updated to GHS classification as per manufacturers SDS.

DISCLAIMER: *The information contained in this safety data sheet was obtained from current and reliable sources. This data is supplied without warranty, expressed or implied, regarding its correctness and accuracy. It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.*

End of SDS