

# Safety Data Sheet Rice Starch Revision 1, Date 09 Mar 18

## 1. IDENTIFICATION

**Product Name Rice Starch** 

**Other Names** HerbaMYL H200 (high amylose content); HerbaMYL H90 (high amylose content); HerbaMYL L90 (low amylose

content)

Uses Food applications. **Chemical Family** No Data Available **Chemical Formula** Unspecified **Chemical Name** Rice starch

**Product Description** Food grade rice starch powder with a fine granulation, obtained by a physical separation process from broken rice.

## Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam Sengalor, Malaysia	+60-3-5614-2111

# **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Organisation	Location	Telephone
Poisons Information Centre	Westmead NSW	1800-251525 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

### 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not Scheduled

**Globally Harmonised System** 

Redox Ltd Corporate Office Sydney
Locked Bag 15 Minto NSW 2566 Australia
2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia

E-mail ABN

Phone +61 2 9733 3000 +61 2 9733 3111 svdnev@redox.com www.redox.com 92 000 762 345

Adelaide Brisbane Melbourne Perth Sydney

New Zealand Auckland Kuala Lumpur Los Angeles Hawke's Bay Oakland Mexico London



Hazard Classification NOT hazardous according to the criteria of the Globally Harmonised System of Classification and

Labelling of Chemicals (GHS)

Signal Word None

# **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous

Goods by Road & Rail (ADG Code)

#### Safe Work Australia

National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Rice starch	Unspecified	9005-25-8	100 %

#### 4. FIRST AID MEASURES

#### Description of necessary measures according to routes of exposure

**Swallowed** IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if

you feel unwell.

Eye IF IN EYES: Flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper

and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for 10 - 15 minutes. If eye irritation

persists, get medical advice/attention.

**Skin** IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin

irritation occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing until recovered. If

respiratory symptoms persist, get medical advice/attention.

Advice to Doctor Treat symptomatically.

Medical Conditions Aggravated

by Exposure

No information available.

# **5. FIRE FIGHTING MEASURES**

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is

out.

**Flammability Conditions** May burn but does not ignite readily.

Extinguishing Media Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction.

**Fire and Explosion Hazard** Combustible dust; Potential dust explosion hazard.

**Hazardous Products of** 

Combustion

Fire may produce irritating and/or toxic fumes, including oxides of Carbon.

Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Special Fire Fighting Instructions

Personal Protective Equipment Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (full fire kit).

Flash Point
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

#### **6. ACCIDENTAL RELEASE MEASURES**

General Response Procedure Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid dust

formation. Avoid breathing dust and contact with eyes, skin and clothing.

Clean Up Procedures Collect material (sweep or vacuum up) and place it into suitable containers for disposal (see SECTION 13); if

appropriate, moisten first or cover with damp absorbent to avoid generating dust.

Containment Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Prevent dust cloud.

**Decontamination** No information available.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

**Personal Precautionary** 

Measures

Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

Handling Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid breathing dust and contact with eyes, skin and clothing. Use personal protective equipment as required (see SECTION 8). Combustible dust: Take precautionary measures against static discharge. Keep away from heat and

sources of ignition - No smoking.

Storage Storage Store at ambient temperatures (3 - 25 °C) in a cool, dry and well-ventilated place, free from odorous products and

pests. Keep containers tightly closed. Protect from sunlight. Keep at relative humidity between 25 - 65 %. Keep away

from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).

**Container** Store in the unopened original packaging.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General** No value assigned for this specific material by Safe Work Australia. For dusts from solid substances without specific

occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3, measured as inhalable dust.

- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3; TWA = 3 mg/m3 (respirable).

Exposure Limits

No Data Available

Biological Limits

No information available.

Engineering Measures 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.

Personal Protection Equipment - Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists. Recommended: Dust mask/respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses or dust goggles.

- Hand protection: Handle with gloves. Recommended: Impervious gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended:

Overalls, safety shoes.

**Special Hazards Precaustions** 

No information available.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing

and wash before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid **Appearance** Powder

Odour Neutral, typical for rice

Colour White

рΗ No Data Available **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** No Data Available **Freezing Point** No Data Available Solubility No Data Available **Specific Gravity** No Data Available Flash Point No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** 300 - 600 g/l **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available 0.30 - 0.50 kg/l **Density** Specific Heat No Data Available Molecular Weight No Data Available **Net Propellant Weight** No Data Available

 $< 90 \ \mu m: > 90 \ \%; > 200 \ \mu m: < 1 \ \%$ **Particle Size** 

**Partition Coefficient** No Data Available Saturated Vapour Concentration No Data Available Vapour Temperature No Data Available No Data Available Viscosity **Volatile Percent** No Data Available **VOC Volume** No Data Available

**Additional Characteristics** No information available.

Potential for Dust Explosion Combustible dust; Potential dust explosion hazard.

No Data Available

- Kst: Class 1 (118 bar m/s) - Min. ignition energy (MIE): 50 mJ

**Fast or Intensely Burning** 

**Octanol Water Coefficient** 

Characteristics

No information available.

Flame Propagation or Burning **Rate of Solid Materials** 

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

No information available.

**Properties That May Initiate or** Contribute to Fire Intensity

May burn but does not ignite readily.

**Reactions That Release Gases** 

or Vapours

Fire

Fire/decomposition may produce irritating and/or toxic fumes, including oxides of Carbon.

Release of Invisible Flammable

No information available.

Vapours and Gases

## 10. STABILITY AND REACTIVITY

**General Information** No information available.

**Chemical Stability** Stable under normal conditions of use.

**Conditions to Avoid** Avoid dust formation. Keep away from heat and all sources of ignition.

Materials to Avoid Incompatible/reactive with strong oxidising agents.

**Hazardous Decomposition** 

**Products** 

Fire/decomposition may produce irritating and/or toxic fumes, including oxides of Carbon.

Hazardous Polymerisation Will not occur.

#### 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: No adverse effects expected.

- Eye contact: No adverse effects expected; Dust in the eyes may cause (mechanical) irritation.

- Skin contact: No adverse effects expected; Repeated or prolonged skin contact may cause (mechanical) irritation.

- Inhalation: No adverse effects expected; Breathing in dust may cause respiratory irritation.

Chronic effects: No information available.

Carcinogen Category None

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No information available.

**Persistence/Degradability** Biodegradable.

**Mobility** No information available.

**Environmental Fate** Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

# 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill No information available.

#### 14. TRANSPORT INFORMATION

# Land Transport (Australia)

ADG Code

Proper Shipping NameRice StarchClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (Malaysia)

ADR Code

Proper Shipping Name
Class
No Data Available
Subsidiary Risk(s)
No Data Available
No Data Available
No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (New Zealand)

NZS5433

Proper Shipping Name Rice Starch

Class No Data Available

**Subsidiary Risk(s)** No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (United States of America)

US DOT

Proper Shipping NameRice StarchClassNo Data AvailableSubsidiary Risk(s)No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Sea Transport

**IMDG** Code

Proper Shipping Name Rice Starch

Class No Data Available

Subsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data AvailableEMSNo Data Available

Marine Pollutant No

**Comments** NON-DANGEROUS GOODS: Not regulated for SEA transport.

# Air Transport

IATA DGR

Proper Shipping NameRice StarchClassNo Data AvailableSubsidiary Risk(s)No Data AvailableUN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for AIR transport.

# **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous

Goods by Road & Rail (ADG Code)

## 15. REGULATORY INFORMATION

General InformationNo Data AvailablePoisons Schedule (Aust)Not Scheduled

## National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

**Europe (EINECS)** Not Determined

**Europe (REACh)** Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

**USA (TSCA)** Not Determined

## **16. OTHER INFORMATION**

Related Product Codes RISTAR1000, RISTAR1090, RISTAR1200, RISTAR2000

Revision

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

**g** Grams

g/cm³ Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism **IDLH** Immediately Dangerous to Life and Health **immiscible** Liquids are insoluable in each other.

inHg Inch of Mercury inH2O Inch of Water

**K** Kelvin **kg** Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours. **LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component

present.

**mm** Millimetre

mmH20 Millimetres of Water mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health NOHSC National Occupational Heath and Safety Commission OECD Organisation for Economic Co-operation and Development

Oz Ounce

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion
ppm Parts per Million

**ppm/2h** Parts per Million per 2 Hours**ppm/6h** Parts per Million per 6 Hours

psi Pounds per Square Inch

# Safety Data Sheet Rice Starch Revision 1, Date 09 Mar 18

R Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLY Threshold Limit Value

tne Tonne
TWA Time Weighted Average
ug/24H Micrograms per 24 Hours
UN United Nations

wt Weight