

# **1. IDENTIFICATION**

Product Name	Corn Starch
Other Names	AVONGEL 3401X; Corn Starch - Native; Corn Starch Low Moisture 4%; Maize Starch; Pregelatinized Maize Starch; Waxy Corn Starch - High Amylopectin; Waxy Maize Starch
Uses	Food applications; Thickening agent; Anticaking agent; Binder.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Starch
Product Description	No Data Available

#### 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

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#### **Globally Harmonised System**

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)

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# Ingredients Chemical Entity Formula CAS Number Proportion Starch Unspecified 9005-25-8 <=100 %</td>

# 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.
Еуе	IF IN EYES: Immediately 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	Combustible solid; 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: Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.
Hazardous Products of Combustion	Fire may produce irritating and/or toxic fumes, including Carbon oxides.

Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may pollute waterways.
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 in suitable containers for disposal (see SECTION 13); if appropriate, moisten first or cover with damp absorbent to avoid raising dust.
Containment	Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Prevent dust cloud.
Decontamination	Ventilate area and wash spill site after material pick up is complete.
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. Do not ingest. Use personal protective equipment as required (see SECTION 8). Combustible dust: Keep away from heat and sources of ignition - No smoking. Take precautionary measures against static discharge.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from incompatible materials (see SECTION 10).
Container	Keep in the original container.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No specific exposure standards are available for this product. 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 dust).
Exposure Limits	No Data Available
<b>Biological Limits</b>	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	<ul> <li>Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists.</li> <li>Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 &amp; 1716).</li> <li>Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses.</li> <li>Hand protection: Handle with gloves. Recommended: Impervious gloves.</li> </ul>

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

No information available.

Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of the workday. Take off contaminated clothing and wash before storage or reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Special Hazards Precaustions** 

Work Hygienic Practices

Physical State	Solid
Appearance	Powder
Odour	Characteristic
Colour	White or off-white
рН	4.0 - 7.0 (dispersion)
Vapour Pressure	No Data Available
<b>Relative Vapour Density</b>	No Data Available
Boiling Point	No Data Available
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Insoluble in cold water - Thicken in hot water
Specific Gravity	1.50 - 1.65 (Water = 1)
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
<b>Decomposition Temperature</b>	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source, is a potential dust explosion hazard.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.

Properties That May Initiate or Combustible solid; May burn but does not ignite readily. **Contribute to Fire Intensity** Fire/decomposition may produce irritating and/or toxic fumes, including Carbon oxides. **Reactions That Release Gases or** Vapours

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 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 Carbon oxides.
Hazardous Polymerisation	Will not occur.

#### **11. TOXICOLOGICAL INFORMATION**

General Information	Information on possible routes of exposure: - Ingestion: No adverse health effects expected. - Eye contact: May cause physical/mechanical irritation. - Skin contact: May cause physical/mechanical irritation. - Inhalation: Dust may cause respiratory tract irritation. Chronic effect: No information available.
Carcinogen Category	Chronic effects: No information available. None

## **12. ECOLOGICAL INFORMATION**

Ecotoxicity	No information available.
Persistence/Degradability	No information available.
Mobility	No information available.
Environmental Fate	Prevent entry into drains and waterways.
<b>Bioaccumulation Potential</b>	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

Corn Starch
No Data Available
NON-DANGEROUS GOODS: Not regulated for LAND transport.
Corn Starch
No Data Available
NON-DANGEROUS GOODS: Not regulated for LAND transport.
Corn Starch
No Data Available

NON-DANGEROUS GOODS: Not regulated for LAND transport.

#### Land Transport (United States of America) US DOT

Comments

Proper Shipping Name	Corn 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.
Sea Transport	
IMDG Code	
Proper Shipping Name	Corn Starch
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No
Comments	NON-DANGEROUS GOODS: Not regulated for SEA transport.
Air Transport	
IATA DGR	
Proper Shipping Name	Corn Starch
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
	NON-DANGEROUS GOODS: Not regulated for AIR transport.

Dangerous Goods ClassificationNOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods<br/>by Road & Rail (ADG Code)

### **15. REGULATORY INFORMATION**

General Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

# Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code

Not Hazardous

## **National/Regional Inventories**

Australia (AIIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	232-679-6
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	CORMOD1815, CORMOD2300, CORMOD3000, CORMOD3012, CORMOD3015, COSTAR0001, COSTAR0002, COSTAR0005, COSTAR1000, COSTAR1001, COSTAR1002, COSTAR1003, COSTAR1004, COSTAR1005, COSTAR1006, COSTAR1007, COSTAR1008, COSTAR1009, COSTAR1010, COSTAR1011, COSTAR1012, COSTAR1013, COSTAR1014, COSTAR1015, COSTAR1016, COSTAR1017, COSTAR1018, COSTAR1019, COSTAR1070, COSTAR1100, COSTAR1200, COSTAR1500, COSTAR1600, COSTAR1700, COSTAR1701, COSTAR1702, COSTAR1800, COSTAR1801, COSTAR1802, COSTAR1803, COSTAR1804, COSTAR1805, COSTAR1806, COSTAR1807, COSTAR1808, COSTAR1809, COSTAR1810, COSTAR1811, COSTAR1812, COSTAR1805, COSTAR1814, COSTAR1815, COSTAR1816, COSTAR1821, COSTAR1901, COSTAR2000, COSTAR3000, COSTAR3500, COSTAR3508, COSTAR4000, COSTAR5000, COSTAR5001, COSTAR5200, COSTAR5285, COSTAR5400, COSTAR5500, COSTAR5600, COSTAR5700, COSTAR5800, COSTAR6000, COSTAR6100, COSTAR6200, COSTAR6205, COSTAR6250, COSTAR7000, COSTAR7001, COSTAR7002, COSTAR6000, COSTAR7005, COSTAR7008, COSTAR7800, COSTAR7858, COSTAR7900, COSTAR8338, COSTAR8001, COSTAR8004, COSTAR8004, COSTAR8004, COSTAR8100, COSTAR8200, COSTAR7850, COSTAR7900, COSTAR8338, COSTAR8000, COSTAR8000, COSTAR8000, COSTAR8000, COSTAR8000, COSTAR8200, COSTAR78500, COSTAR8333, COSTAR8338, COSTAR8700, COSTAR8800, COSTAR9000, COSTAR9008, COSTAR9009, COSTAR9650, COSTAR9568, COSTAR9850
Revision	4
Revision Date	27 Mar 2019
Reason for Issue	SDS updated
Key/Legend	< Less Than > Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm <sup>2</sup> Square Centimetres CO2 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/cm<sup>3</sup> 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 inH20 Inch of Water K Kelvin kg Kilogram kg/m<sup>3</sup> 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 m<sup>3</sup> Cubic Metre mbar Millibar mg Milligram mg/24H Milligrams per 24 Hours mg/kg Milligrams per Kilogram mg/m<sup>3</sup> 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 R Rankine RCP Reciprocal Calculation Procedure STEL Short Term Exposure Limit TLV Threshold Limit Value tne Tonne TWA Time Weighted Average ug/24H Micrograms per 24 Hours **UN** United Nations

**wt** Weight