# SAFETY DATA SHEET



Revision date: 29-Jun-2020

**Revision Number** 4

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product identifier** 

Product Name CARBOPOL 971P NF POLYMER

**Product Code(s)** 000000035325

Other means of identification

Recommended use of the chemical and restrictions on use

**Recommended use** Food additive.

Uses advised against No information available.

<u>Supplier</u>

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia ABN:51 600 546 512 70 Marple Avenue Villawood NSW 2163 Australia

Telephone Number: +61 2 8717 2929

Facsimile: +61 2 9755 9611

### Emergency telephone number

Emergency telephone number 1 800 033 111 (ALL HOURS)

Please ensure you refer to the limitations of this Safety Data Sheet as set out in the "Other Information" section at the end of this Data Sheet.

### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Not classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

Label elements

**Hazard statements** 

Other hazards which do not result in classification

**General Hazards** 

Poisons Schedule (SUSMP) None allocated

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Chemical name	CAS No.	Weight-%
2-Propenoic acid, homopolymer	9003-01-4	>=90
Potassium carbonate	584-08-7	1-10

## 4. FIRST AID MEASURES

**Description of first aid measures** 

General advice For advice, contact a Poisons Information Centre (e.g. phone Australia 13 11 26; New

Zealand 0800 764 766) or a doctor.

**Emergency telephone number** Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

**Inhalation** Remove to fresh air. Call a physician if symptoms occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention if symptoms occur.

**Skin contact** Wash skin with soap and water. Call a physician if symptoms occur.

**Ingestion** Clean mouth with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** 

**Suitable Extinguishing Media** Water spray, fog or regular foam. Dry chemical.

Unsuitable extinguishing media Carbon dioxide (CO2)

Specific hazards arising from the chemical

Specific hazards arising from the Combustible material. Dust can form an explosive mixture with air. Avoid generation of dust.

chemical

Hazardous combustion products Carbon oxides.

Special protective actions for fire-fighters

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid generation of dust. Take precautionary measures Personal precautions

against static discharges.

Use personal protection recommended in Section 8. For emergency responders

**Environmental precautions** 

See Section 12 for additional Ecological Information. **Environmental precautions** 

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Use appropriate personal protective equipment (PPE). Carefully shovel or sweep up spilled Methods for cleaning up

material and place in suitable container. Avoid generating dust. After cleaning, flush away

traces with water.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition Advice on safe handling

source is a potential dust explosion hazard. Avoid generation of dust. Ground and bond all

lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from

sources of heat or ignition. Store below 80°C.

Incompatible materials Alkalis Bases

Poisons Schedule (SUSMP) None allocated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

**Exposure Limits** No value assigned for this specific material by Safe Work Australia. However, supplier

recommended Workplace Exposure Standard(s) for constituent(s):

Polyacrylic acid: TWA = 0.05 mg/m<sup>3</sup>

TWA - The time-weighted average airborne concentration of a particular substance when calculated over an eight-hour working day, for a five-day working week.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

#### Appropriate engineering controls

**Engineering controls** Apply technical measures to comply with the occupational exposure limits.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

#### Individual protection measures, such as personal protective equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, SAFETY SHOES, SAFETY GLASSES, GLOVES, DUST MASK.











Eye/face protection Glasses.

**Skin and body protection** Protective shoes or boots. Wear suitable protective clothing. Overalls.

Hand protection Impervious gloves.

Respiratory protection If determined by a risk assessment an inhalation risk exists, wear a dust mask meeting the

requirements of AS/NZS 1715 and AS/NZS 1716.

Environmental exposure controls No information available.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateSolidAppearancePowderColorWhiteOdorMild

Odor threshold No information available.

Property Values Remarks • Method

pH2.5-3 (1% water)None knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone knownFlash pointNot applicableNone knownEvaporation rateNo data availableNone known

Flammability (solid, gas)

No data available

No data available

None known None known

Flammability Limit in Air

Upper flammability or explosive

limits

Lower flammability or explosive 130 g/m<sup>3</sup>

limits

No data available None known Vapor pressure Vapor density No data available None known Relative density 1.4 @20°C None known Water solubility Soluble in water None known Solubility(ies) No data available None known **Partition coefficient** No data available None known ca. 480°C **Autoignition temperature** None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known Dynamic viscosity No data available None known

Other information

**VOC Content (%)** <2% w/w

<0.44 g/mL @25°C **Bulk density** 380 bar/s (500 g/cm3) **Maximum Rate of Pressure Rise** 

(bar/sec)

Minimum Ignition Energy (mJ) >500 mJ Minimum Ignition Temperature (°C) ca. 480°C

## 10. STABILITY AND REACTIVITY

Reactivity

No information available. Reactivity

**Chemical stability** 

Stability Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None.

Sensitivity to static discharge Yes.

Possibility of hazardous reactions

Possibility of hazardous reactions Dust can form an explosive mixture with air.

Hazardous polymerization Hazardous polymerization does not occur.

**Conditions to avoid** 

Conditions to avoid Dust formation. Heat. Moisture. Static discharge (electrostatic discharge).

Incompatible materials

Incompatible materials Alkalis, Bases,

**Hazardous decomposition products** 

Hazardous decomposition products Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

### Information on likely routes of exposure

**Product Information**No adverse health effects expected if the chemical is handled in accordance with this

Safety Data Sheet and the chemical label. Symptoms or effects that may arise if the

chemical is mishandled and overexposure occurs are:

**Inhalation** May cause irritation. May cause sensitization in susceptible persons.

**Eye contact** Dust contact with the eyes can lead to mechanical irritation.

**Skin contact**Contact with dust can cause mechanical irritation or drying of the skin.

Ingestion May cause gastrointestinal discomfort if consumed in large amounts

**Symptoms** No information available.

#### Numerical measures of toxicity - Product Information

No information available.

### Numerical measures of toxicity - Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propenoic acid, homopolymer	= 2500 mg/kg (Rat)	-	= 1.71 mg/L (Rat)4 h
Potassium carbonate	= 1870 mg/kg (Rat)	-	-

See section 16 for terms and abbreviations

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Not classified.

Respiratory or skin sensitization Not a skin sensitizer.

Germ cell mutagenicity No information available.

Carcinogenicity Refer to 'Chronic effects' section below.

Reproductive toxicity

No information available.

STOT - single exposure

No information available.

**STOT - repeated exposure** No information available.

**Aspiration hazard** No information available.

Chronic effects: A two-year inhalation study in rats exposed to a respirable, water-absorbent sodium

polyacrylate dust resulted in lung effects such as inflammation, hyperplasia and tumors. There were no observed adverse effects at exposures of 0.05 mg/m³. In addition, long-term medical monitoring of potentially exposed workers has not revealed lung effects such as those observed in the rat. However, the inhalation of respirable dusts should be avoided by implementing respiratory protection measures and observing the recommended permissible

exposure limit of 0.05 mg/m3.

Polyacrylic acid has been classified by the International Agency for Research on Cancer

(IARC) as a Group 3 -Not classifiable as to its carcinogenicity to humans.

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

**Ecotoxicity** Keep out of waterways.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Propenoic acid, homopolymer	-	LC50: =580mg/L (96h, Lepomis macrochirus)	-	EC50: =168mg/L (96h, water flea)
Potassium carbonate	-	-	-	LC50: =630mg/L (48h, Ceriodaphnia dubia)

#### Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

**Bioaccumulation** No information available.

**Mobility** 

Mobility in soil No information available.

Other adverse effects

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

## 14. TRANSPORT INFORMATION

#### **ADG**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail: NON-DANGEROUS GOODS.

#### ΙΔΤΔ

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

#### IMDG

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

## 15. REGULATORY INFORMATION

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

### National regulations

#### <u>Australia</u>

Not classified as dangerous goods in accordance with the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG)

Not classified as a hazardous chemical in accordance with the criteria of Safe Work Australia - Globally Harmonized System (GHS)

See section 8 for national exposure control parameters

Poisons Schedule (SUSMP) None allocated

**International Inventories** 

AICS All the constituents of this material are listed on the Australian Inventory of Chemical

Substances.

NZIOC All the constituents of this material are listed on the New Zealand Inventory of Chemicals.

Legend:

AICS - Australian Inventory of Chemical Substances

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

### 16. OTHER INFORMATION

Supplier Safety Data Sheet 08/2018 CARBOPOL is a registered tradename.

Reason(s) For Issue: 5 Yearly Revised Primary SDS

Issuing Date: 29-Jun-2020

This Safety Data Sheet has been prepared by Ixom Operations Pty Ltd (Toxicology and SDS Services).

#### **Revision Note:**

The symbol (\*) in the margin of this SDS indicates that this line has been revised.

### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

C Carcinogen

#### Key literature references and sources for data used to compile the SDS

EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

RTECS (Registry of Toxic Effects of Chemical Substances)

World Health Organization

#### **Disclaimer**

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Ixom Operations Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact their Bronson & Jacobs representative or Ixom Operations Pty Ltd at the contact details on page 1.

Ixom Operations Pty Ltd's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

Bronson and Jacobs incorporating the businesses of Woods and Woods and Keith Harris.

**End of Safety Data Sheet**