

# SAFETY DATA SHEET



Revision date: 11-Aug-2021

Revision Number 5

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### Product identifier

**Product Name** CARBOPOL 940 POLYMER

**Product Code(s)** 000000030879

### Other means of identification

**Synonyms** Carbopol 940 NF Polymer

### Recommended use of the chemical and restrictions on use

**Recommended use** Cosmetics applications Pharmaceutical applications.

**Uses advised against** No information available.

### Details of the supplier of the safety data sheet

#### Supplier

Ixom Operations Pty Ltd (Bronson & Jacobs division) - incorporated in Australia  
Street Address: 166 Totara Street  
Mt Maunganui South  
New Zealand

Telephone Number: +64 9 309 2528

Facsimile: +64 9 0508 366 364

### For further information, please contact

**Contact Point** Product Safety Department

### Emergency telephone number

**Emergency Telephone** 0 800 734 607 (ALL HOURS)

## 2. HAZARDS IDENTIFICATION

Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.

Classified as hazardous according to criteria in the Hazardous Substances (Hazard Classification) Notice 2020.

### GHS Classification

#### **SIGNAL WORD**

Danger

**EPA New Zealand HSNO approval code or group standard** Additives, Process Chemicals and Raw Materials (Carcinogenic)  
Group Standard 2020

Approval Number: HSR002512

Germ cell mutagenicity	Category 1B - (H340)
Carcinogenicity	Category 1A - (H350)
Reproductive toxicity	Category 1 - (H360)

**Label elements****Hazard statements**

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

**Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

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

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Other hazards which do not result in classification**

Dust can form an explosive mixture with air

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

Chemical name	CAS No.	Weight-%
Benzene	71-43-2	0.1-1
Acrylic acid	79-10-7	0.1-1
Non-hazardous ingredients	Proprietary	Balance

**4. FIRST AID MEASURES****Description of first aid measures****General advice**

Show this safety data sheet to the doctor in attendance. If exposed or concerned: Get medical advice/attention.

**Emergency telephone number**

Poisons Information Center, New Zealand: 0800 764 766

Poisons Information Center, Australia: 13 11 26

**Inhalation**

Remove to fresh air. If breathing is difficult, administer oxygen. Call a physician if symptoms occur.

**Eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

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

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**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** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media** Carbon dioxide (CO<sub>2</sub>) may be ineffective on large fires.

**Specific hazards arising from the chemical**

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

**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**

**Personal precautions** Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Avoid generation of dust. Ensure adequate ventilation. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Do not touch or walk through spilled material. Remove all sources of ignition. Take precautionary measures against static discharges. Evacuate personnel to safe areas. Wash thoroughly after handling.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** See Section 12 for additional Ecological Information. Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

**Methods and material for containment and cleaning up**

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

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

material and place in suitable container. Avoid generating dust. Use non-sparking tools. After cleaning, flush away traces with water and detergent. Slippery when wet.

#### Precautions to prevent secondary hazards

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

##### **Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes, and clothing. Avoid breathing dust or spray mist. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Remove contaminated clothing and shoes. Take off contaminated clothing and wash before reuse. Do not eat, drink or smoke when using this product. Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition 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.

##### **General hygiene considerations**

Avoid contact with skin, eyes, and clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

#### Conditions for safe storage, including any incompatibilities

##### **Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Store away from sources of heat or ignition. Keep container closed when not in use.

##### **Incompatible materials**

Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

##### **Exposure Limits**

No value assigned for this specific material by the New Zealand Workplace Health & Safety Authority. However, Workplace Exposure Standard(s) for constituent(s):

Chemical name	New Zealand	ACGIH
Benzene 71-43-2	25 µg/g creatinine urine end of shift S-Phenylmercapturic acid	

Benzene: WES-TWA 0.05 ppm, 6.7A Known or presumed human carcinogen, skin

Acrylic acid: WES-TWA 2 ppm, 5.9 mg/m<sup>3</sup>, dsen, skin

As published by the New Zealand Workplace Health & Safety Authority.

WES - TWA (Workplace Exposure Standard - Time Weighted Average) - The eight-hour, time-weighted average exposure standard is designed to protect the worker from the effects of long-term exposure.

Carcinogen Category 6.7A - Known or presumed human carcinogen.

'Skin' Notice - absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

(dsen) - Dermal sensitiser.

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** Wear safety glasses with side shields (or goggles).

**Hand protection** Impervious gloves.

**Skin and body protection** Wear suitable protective clothing. Overalls. Antistatic boots.

**Respiratory protection** If determined by a risk assessment an inhalation risk exists, wear a dust mask/respirator 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**

<b>Physical state</b>	Solid
<b>Appearance</b>	Powder
<b>Color</b>	White
<b>Odor</b>	Slight Acetic
<b>Odor threshold</b>	No information available.

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	2.5 - 3	1 % aqueous solution
<b>Melting point / freezing point</b>	No data available	None known
<b>Boiling point / boiling range</b>	No data available	None known

Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	1.4	@ 20 °C
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	approx. 480 °C	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**

Maximum Rate of Pressure Rise (bar/sec)	5,500 psi/s (0.5 oz/ft3)
Minimum Ignition Energy (mJ)	25 - 50
Minimum Ignition Temperature (°C)	approx. 480

**10. STABILITY AND REACTIVITY****Reactivity**

Reactivity No information available.

**Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge Fine dust dispersed in air, in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

**Possibility of hazardous reactions**

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

**Conditions to avoid**

Conditions to avoid Heat, flames and sparks. Dust formation. Static discharge (electrostatic discharge).

**Incompatible materials**

Incompatible materials Strong bases.

**Hazardous decomposition products**

Hazardous decomposition products Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity****Information on likely routes of exposure**

<b>Product Information</b>	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:
<b>Inhalation</b>	May cause irritation of respiratory tract. Inhalation of dust in high concentration may cause irritation of respiratory system. Specific test data for the substance or mixture is not available. Persons with sensitive airways (e.g., asthmatics) may react to vapours.
<b>Eye contact</b>	Dust contact with the eyes can lead to mechanical irritation. Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Contact with dust can cause mechanical irritation or drying of the skin. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
<b>Ingestion</b>	May cause gastrointestinal discomfort if consumed in large amounts. Specific test data for the substance or mixture is not available.
<b>Symptoms</b>	No information available.

**Acute toxicity****Numerical measures of toxicity**

No information available.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Benzene	= 810 mg/kg ( Rat ) = 1800 mg/kg ( Rat )	> 8200 mg/kg ( Rabbit )	= 44.66 mg/L ( Rat ) 4 h
Acrylic acid	= 193 mg/kg ( Rat ) = 33500 µg/kg ( Rat )	= 280 µL/kg ( Rabbit ) = 295 mg/kg ( Rabbit )	= 3.6 mg/L ( Rat ) 4 h = 11.1 mg/L ( Rat ) 1 h

See section 16 for terms and abbreviations

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

<b>Skin corrosion/irritation</b>	Non-irritating to the skin.
<b>Serious eye damage/eye irritation</b>	Non-irritating to the eyes.
<b>Respiratory or skin sensitization</b>	Not a skin sensitizer.
<b>Germ cell mutagenicity</b>	May cause genetic defects. Classification based on data available for ingredients. Contains a known or suspected mutagen.
<b>Carcinogenicity</b>	May cause cancer. Classification based on data available for ingredients. Contains a known or suspected carcinogen.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	New Zealand	IARC
Benzene - 71-43-2	Confirmed carcinogen	Group 1
Acrylic acid - 79-10-7		Group 3

**Legend**

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

<b>Reproductive toxicity</b>	May damage fertility or the unborn child. Classification based on data available for ingredients.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.
<b>Chronic effects:</b>	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/m <sup>3</sup> . 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/m <sup>3</sup> .

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Ecotoxicity</b>	Keep out of waterways.
<b>Terrestrial ecotoxicity</b>	There is no data for this product.

Chemical name	EarthWorm	Avian	Honeybees
Benzene	LC50 0.1 - 1 mg/cm2 (Eisenia foetida 48 h filter paper) LC50 = 0.098 mg/cm2 (Eisenia foetida 48 h filter paper)	-	-

Chemical name	Algae/aquatic plants	Fish	Crustacea
Benzene	EC50: =29mg/L (72h, Pseudokirchneriella subcapitata)	LC50: 10.7 - 14.7mg/L (96h, Pimephales promelas) LC50: =5.3mg/L (96h, Oncorhynchus mykiss) LC50: =22.49mg/L (96h, Lepomis macrochirus) LC50: =28.6mg/L (96h, Poecilia reticulata) LC50: 22330 - 41160µg/L (96h, Pimephales promelas) LC50: 70000 - 142000µg/L (96h, Lepomis macrochirus)	EC50: 8.76 - 15.6mg/L (48h, Daphnia magna) EC50: =10mg/L (48h, Daphnia magna)
Acrylic acid	EC50: =0.17mg/L (96h, Pseudokirchneriella subcapitata) EC50: =0.04mg/L (72h, Desmodesmus subspicatus)	LC50: =222mg/L (96h, Brachydanio rerio)	EC50: =95mg/L (48h, Daphnia magna) LC50: =270mg/L (24h, Daphnia magna)

### Product Information

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Lepomis macrochirus	LC50		96 hours	580 mg/L
	Daphnia magna	EC50		48 hours	174 mg/L

### Persistence and degradability

<b>Persistence and degradability</b>	No information available.
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**Bioaccumulative potential****Bioaccumulation** No information available.**Mobility****Mobility in soil** No information available.

Chemical name	Partition coefficient
Benzene	2.1
Acrylic acid	0.38 - 0.46

**Other adverse effects****Other adverse effects** No information available.**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste from residues/unused products** Dispose of product in packaging/container in a way that is consistent with the Hazardous Substances (Disposal) Notice 2017 and the Act, and Hazardous Substances (Amendments and Revocations) Notice 2020.**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.**14. TRANSPORT INFORMATION****ROAD AND RAIL TRANSPORT** Not classified as a Dangerous Good under NZS 5433 Transport of Dangerous Goods on Land; NON-DANGEROUS GOODS.**IATA** 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****New Zealand****National regulations** See section 8 for national exposure control parameters

The 'Hazardous Substances (Tracking) Regulations' are applicable to this chemical.

**EPA New Zealand HSNO approval code or group standard** Additives, Process Chemicals and Raw Materials (Carcinogenic) Group Standard 2020  
Approval Number: HSR002512

Chemical name	New Zealand HSNO Chemical Classification
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Benzene - 71-43-2	Flammable liquid Category 2, Acute oral toxicity Category 4, Acute dermal toxicity Category 2, Skin irritation Category 2, Eye irritation Category 2, Germ cell mutagenicity Category 1, Carcinogenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity (repeated exposure) Category 1,
Acrylic acid - 79-10-7	Flammable liquid Category 3, Acute oral toxicity Category 3, Acute dermal toxicity Category 3, Acute inhalation toxicity Category 4, Skin corrosion Category 1B, Serious eye damage Category 1, Skin sensitisation Category 1, Specific target organ toxicity (repeated exposure) Category 1, Hazardous to the aquatic environment acute Category 1,

**International Inventories****NZIoC**

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

**TSCA**

Contact supplier for inventory compliance status.

**DSL/NDSL**

Contact supplier for inventory compliance status.

**EINECS/ELINCS**

Contact supplier for inventory compliance status.

**ENCS**

Contact supplier for inventory compliance status.

**IECSC**

Contact supplier for inventory compliance status.

**KECL**

Contact supplier for inventory compliance status.

**PICCS**

Contact supplier for inventory compliance status.

**AICS**

Contact supplier for inventory compliance status.

**Legend:**

**NZIoC** - New Zealand Inventory of Chemicals

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

- Australian Inventory of Industrial Chemicals

**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; 07/ 2019  
CARBOPOL is a registered tradename.

**Prepared By**

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

**Issuing Date:**

11-Aug-2021

**Reason(s) For Issue:**

5 Yearly Revised Primary SDS  
Change in Hazardous Chemical Classification

**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**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 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  
 Australian Industrial Chemicals Introduction Scheme (AICIS)  
 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**