

1. IDENTIFICATION

Product Name	SAN Resin
Other Names	2-Propenenitrile, polymer with ethenylbenzene; AS Resin; KIBISAN PN-117C
Uses	For the production of molded plastic articles; For household appliances, electronic materials, automotive parts and industrial materials.
Chemical Family	No Data Available
Chemical Formula	(C8H8.C3H3N)x
Chemical Name	Acrylonitrile-Styrene Copolymer
Product Description	Thermoplastic polymer.

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

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

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 USA
 Los Angeles
 Oakland
 Mexico
 Saltillo



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
Acrylonitrile-Styrene Copolymer	(C8H8.C3H3N)x	9003-54-7	>=99 %
Additives	Unspecified	Unspecified	<=1 %
Styrene (impurity)	C8H8	100-42-5	0 - <1 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure		
Swallowed	IF SWALLOWED: Rinse mouth. Do not induce vomiting unless directed to do so by medical personnel. Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person.	
Еуе	IF IN EYES: Avoid rubbing 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 at least 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 it before reuse. If skin irritation occurs, get medical advice/attention. *In case of burns, immediately cool affected skin for as long as possible with cold water. Do not remove clothing if adhering to skin. Removal of solidified molten material from skin requires medical assistance.	
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.	
Advice to Doctor	Treat symptomatically.	
Medical Conditions Aggravated by Exposure	No information available.	

5. FIRE FIGHTING MEASURES

General Measures

Evacuate non-essential personnel to safe area. Keep personnel removed from and upwind of fire. 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 powder, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets.
Fire and Explosion Hazard	Avoid generating 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	Combustion may produce irritating and/or toxic fumes, including carbon monoxide, carbon dioxide, nitrogen oxides, styrene, acrylonitrile, hydrocarbons, hydrogen cyanide. Fires involving this material may produce large amounts of sooty smoke.
Special Fire Fighting Instructions	Contain runoff from fire control water - Runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	No Data Available
Lower Explosion Limit	60 g/m3 (particle size <0.2 mm)
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	>400 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation. ELIMINATE all ignition sources (no smoking, flares, sparks or flame). Do not touch or walk through spilled material - may cause slipping! Avoid generating dust. Avoid breathing dust and contact with eyes, skin and clothing.
Clean Up Procedures	With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area. Recover, if not contaminated, or dispose (see SECTION 13).
Containment	Stop leak if you can do it without risk. Prevent dust cloud.
Decontamination	No information available.
Environmental Precautionary Measures	Prevent entry into drains and waterways. Inform respective authorities in case product reaches water, sewage system or soil.
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 rough handling and handling which leads to dust formation. Avoid breathing dust/fumes and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). WARNING: May form combustible dust concentrations in air (during processing). Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Store below 50 °C. Keep container tightly closed. Protect from water/moisture. 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 Workplace Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m3 (measured as inhalable dust). - WorkSafe New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m3 (total); TWA = 3 mg/m3 (respirable). IMPURITY: Styrene monomer (CAS No. 100-42-5): - Safe Work Australia Workplace Exposure Standard: TWA = 50 ppm (213 mg/m3); STEL = 100 ppm (426 mg/m3). - WorkSafe New Zealand Workplace Exposure Standard [Adopted 2018]: TWA = 20 ppm (85 mg/m3); STEL = 40 ppm (170 mg/m3); Suspected human carcinogen (carcinogen category 2); Ototoxin (oto).
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; Wear respirator for organic gases against fumes generated during processing of the resin. Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side shields or chemical safety goggles. Hand protection: Handle with gloves. Recommended: Impervious gloves. Wear heat resistant protective gloves when handling heated/high temperature polymer. Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long-sleeved clothing or overalls, safety shoes. Wear heat resistant protective clothing when handling heated/high temperature polymer.
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 it before reuse. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Pellets
Odour	None or very slight, sweet
Colour	Transparent
рН	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	Insoluble in water - Partly soluble in organic solvents
Specific Gravity	1.02 - 1.08
Flash Point	No Data Available
Auto Ignition Temp	>400 °C
Evaporation Rate	No Data Available
Bulk Density	Approx. 300 - 450 kg/m3
Corrosion Rate	No Data Available
Decomposition Temperature	>300 °C
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	This product softens gradually over a broad temperature range (130 - 150 °C).
Potential for Dust Explosion	Avoid generating dust; 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 Contribute to Fire Intensity	Combustible solid; may burn but does not ignite readily.
Reactions That Release Gases or Vapours	Combustion/thermal decomposition may produce irritating and/or toxic fumes, including carbon monoxide, carbon dioxide, nitrogen oxides, styrene, acrylonitrile, hydrocarbons, hydrogen cyanide.
Release of Invisible Flammable Vapours and Gases	No information available.

10. STABILITY AND REACTIVITY

General Information	No information available.
Chemical Stability	This product is considered stable under normal and anticipated storage and handling conditions.
Conditions to Avoid	Keep away from heat and sources of ignition.
Materials to Avoid	Incompatible/reactive with solvents, oxidising agents.
Hazardous Decomposition Products	Combustion/thermal decomposition may produce irritating and/or toxic fumes, including carbon monoxide, carbon dioxide, nitrogen oxides, styrene, acrylonitrile, hydrocarbons, hydrogen cyanide.
Hazardous Polymerisation	No information available.

11. TOXICOLOGICAL INFORMATION

General Information	 Information on possible routes of exposure: Ingestion: Swallowing may cause gastrointestinal irritation and pain. Eye contact: Dust may cause eye irritation. Skin contact: Dust may cause skin irritation. The melted product can cause severe burns. Inhalation: Dust can cause respiratory irritation. This product may release small amount of volatile gases which may cause irritation to eyes, nose and throat. Styrene (impurity) is Harmful if inhaled, May cause respiratory irritation and May cause drowsiness and dizziness. Chronic effects: Styrene (impurity) is Suspected of causing genetic defects, Suspected of damaging the unborn child and Causes damage to the hearing organs through prolonged or repeated exposure.
Carcinogen Category	None

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to pose a significant ecological hazard.	
Persistence/Degradability	The product is not easily biodegradable.	
Mobility	No information available.	
Environmental Fate	Prevent entry into drains and waterways.	
Bioaccumulation Potential	Not expected to be bioaccumulative.	
Environmental Impact	No Data Available	

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container to an authorised waste collection point and in accordance with local/regional/national regulations. Recycling uncontaminated packaging recommended.
Special Precautions for Land Fill	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code	
Proper Shipping Name	SAN Resin
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 (Malaysia) ADR Code	
Proper Shipping Name	SAN Resin
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	
Comments	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Land Transport (New Zealand) NZS5433

Proper Shipping Name	SAN Resin
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 Name	SAN Resin
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	SAN Resin
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	SAN Resin
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
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 Information	No Data Available
Poisons Schedule (Aust)	Not Scheduled

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval C	Code
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Not Assessed

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)	Not Determined
Philippines (PICCS)	Not Determined
Switzerland (Giftliste 1)	Not Determined
Switzerland (Inventory of Notified Substances)	Not Determined
Taiwan (NCSR)	Not Determined
USA (TSCA)	Listed

16. OTHER INFORMATION

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mm Millimetre mmH20 Millimetres of Water
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
TWA Time Weighted Average ug/24H Micrograms per 24 Hours
UN United Nations

wt Weight