



#### 1. IDENTIFICATION

Product Name RESINEX MX-21

Other Names RESINEX MX-1; RESINEX MX-2

Uses Water treatment
Chemical Family No Data Available
Chemical Formula No Data Available
Chemical Name RESINEX MX-21
Product Description No Data Available

# Contact Details of the Supplier of this Safety Data Sheet

Organisation Location Telephone

Redox Pty Ltd 2 Swettenham Road +61-2-97333000 Minto NSW 2566

Australia

Redox Pty Ltd 11 Mayo Road +64-9-2506222

Wiri Auckland 2104 New Zealand

Redox Inc. 3960 Paramount Boulevard +1-424-675-3200

Suite 107

Lakewood CA 90712

USA

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**

Poisons Information Centre

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

Organisation Location Telephone

Westmead NSW 1800-251525

131126

Chemcall Australia 1800-127406

+64-4-9179888

#### 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust) Not scheduled

**Globally Harmonised System** 

Hazard Classification Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

**Hazard Categories** Serious Eye Damage/Irritation - Category 1





#### **Pictograms**



Signal Word Danger

**Hazard Statements** H318 Causes serious eye damage.

**Precautionary Statements** Prevention P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

**P310** Immediately call a POISON CENTER or doctor/physician.

# **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
Styrene-divinylbenzene-copolymer with trialkyl ammonium groups in OH- form	No Data Available	69011-18-3	25.0 - 50.0 %
Water	No Data Available	7732-18-5	25.0 - 50.0 %
Styrene-divinylbenzene-copolymer with sulfonated groups in H-form	No Data Available	69011-20-7	10.0 - <25.0 %

#### 4. FIRST AID MEASURES

# Description of necessary measures according to routes of exposure

Swallowed Rinse out mouth and then drink plenty of water. Seek medical treatment.Eye Rinse opened eye for 15 minutes under running water. Seek medical treatment.

SkinInstantly wash with water and soap and rinse thoroughly.InhaledSupply fresh air; consult doctor in case of symptoms.Advice to DoctorInstantly remove any clothing soiled by the product.

People who have inhaled the product or the brand developed fumes or have come into contact with the

product may not show immediate symptoms.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least

48 hours after the accident.

Position and transport in a stable posture on side.

Medical Conditions Aggravated

No Data Available

by Exposure

## **5. FIRE FIGHTING MEASURES**

General Measures Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move

fire exposed containers from fire area if it can be done without risk.



**Flammability Conditions** The product is combustible.

**Extinguishing Media** Water spray, foam, carbon dioxide, dry extinguishing agents.

Fire and Explosion Hazard Product is not explosive.

**Hazardous Products of** 

Combustion

Can be released in case of fire: Nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2), sulphur oxides

(SOx).

**Special Fire Fighting** Instructions

Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

**Personal Protective Equipment** Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting

clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Flash Point No Data Available No Data Available Lower Explosion Limit **Upper Explosion Limit** No Data Available

>500 °C **Auto Ignition Temperature** 

Hazchem Code No Data Available

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

**General Response Procedure** Avoid accidents, clean up immediately. May be slippery when spilt. Eliminate all sources of ignition. Increase

ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools

and equipment.

Clean Up Procedures Collect mechanically. Dispose of contaminated material as waste according to chapter 13.

Containment Stop leak if safe to do so. Isolate the danger area.

**Environmental Precautionary** 

Measures

Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental

Protection Authority or your local Waste Management.

**Evacuation Criteria** Evacuate all unnecessary personnel.

**Personal Precautionary** 

Measures

Personnel involved in the clean up should wear full protective clothing as listed in section 8.

#### 7. HANDLING AND STORAGE

Handling Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and

recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes.

Recommended storage temperature: 1-40 °C. Keep at temperature not exceeding 50 °C. Store in a cool, dry, well-Storage

ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Protect from direct sunlight, moisture and static discharges. This product is not classified dangerous for transport according to The

Australian Code for the Transport of Dangerous Goods By Road and Rail.

Container Store in original packaging as approved by manufacturer.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General No exposure standard has been established for this product by The Safe Work Australia (SWA).

However, the exposure standard for dust not otherwise specified is 10mg/m3 (for inspirable dust) and 3mg/m3 (for

respirable dust).

**Exposure Limits** No Data Available

**Biological Limits** No information available on biological limit values for this product.

**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. Adequate ventilation should be provided so that exposure limits

are not exceeded.



Personal Protection Equipment RESPIRATOR: Wear a dust mask where dusts/vapours are generated and engineering controls are inadequate

(AS1715/1716).

EYES: Safety glasses with side shields (AS1336/1337). HANDS: Wear rubber or PVC gloves (AS2161).

CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

Work Hygienic Practices No Data Available

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateSolidAppearanceSolidOdourAmine-likeColourDark brown

**pH** 6 - 9 100 g/l @ 20 Deg C

Vapour PressureNo Data AvailableRelative Vapour DensityNo Data AvailableBoiling PointNo Data AvailableMelting PointNo Data AvailableFreezing PointNo Data Available

Solubility Unsoluble Specific Gravity 1.1 kg/L

Flash Point No Data Available

Auto Ignition Temp >500 °C

**Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** 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

**Additional Characteristics** Settled apparent density at 20 °C 600-800 kg/m³

No Data Available

Potential for Dust Explosion No Data Available
Fast or Intensely Burning
Characteristics
No Data Available

Flame Propagation or Burning

Rate of Solid Materials

No Data Available

Non-Flammables That Could Contribute Unusual Hazards to a Fire

No Data Available

Properties That May Initiate or Contribute to Fire Intensity

No Data Available

**Reactions That Release Gases** 

or Vapours

**VOC Volume** 

No Data Available



Release of Invisible Flammable

Vapours and Gases

No Data Available

#### 10. STABILITY AND REACTIVITY

**Chemical Stability** Product is stable under normal conditions of use, storage and temperature.

Conditions to Avoid Avoid excessive heat, direct sunlight, generating dust, moisture, static discharges, open flame and high temperatures.

**Materials to Avoid** Reacts with strong acids and oxidizing agents.

**Hazardous Decomposition** 

Products

Carbon monoxide (CO), carbon dioxide (CO2), nitrogen oxides (NOx), sulphur oxides (SOx).

**Hazardous Polymerisation** Has not been reported.

# 11. TOXICOLOGICAL INFORMATION

**General Information** Oral LD50 >5000 mg/kg (rat)

No sensitizing effect known.

**Eyelritant** Strong irritant with the danger of severe eye injury.

Carcinogen Category No Data Available

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** No ecological information available for this product.

Persistence/Degradability No information available on persistence/degradability for this product.

**Mobility** No information available on mobility for this product.

**Environmental Fate** Not hazardous for water.

**Bioaccumulation Potential**No information available on bioaccumulation for this product.

**Environmental Impact** No Data Available

#### 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in

accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Special Precautions for Land Fill Contact a specialist disposal company or the local waste regulator for advice. Incinerate at an approved site following

all local regulations. This material may be suitable for approved landfill. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

# 14. TRANSPORT INFORMATION

Land Transport (Australia)

ADG Code

Proper Shipping Name RESINEX MX-21



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

## Sea Transport

**IMDG** Code

**Proper Shipping Name RESINEX MX-21** 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 No Data Available **EMS** 

Marine Pollutant No.

# Air Transport

IATA DGR

Proper Shipping Name

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

RESINEX MX-21

No Data Available

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## 15. REGULATORY INFORMATION

General InformationNo Data AvailablePoisons Schedule (Aust)Not scheduled

# National/Regional Inventories

Australia (AICS) 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)** Not Determined

#### 16. OTHER INFORMATION

Related Product Codes IOEXCH9900, IOEXCH9920, IOEXCH2121

Revision 2

Revision Date 05 May 2016

Key/Legend < Less Than

Greater Than

> Greater Than
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



mmH2O 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

