

**1. Identification of Substance & Company**

<b>Product</b>	
<b>Product name</b>	Ramset HiSeal DuraMax
<b>Other names</b>	Ramset HiSeal DuraMax ,300ml Grey, White and Black. Ramset HiSeal DuraMax, 500ml Grey, White and Black.
<b>Product code</b>	HSDMG600, HSDMB600, HSDMW300
<b>HSNO approval</b>	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006, HSR002670
<b>UN number</b>	Not assigned
<b>Proper Shipping Name</b>	Not applicable
<b>Packaging group</b>	Not applicable
<b>Hazchem code</b>	1T (recommended)
<b>Poison schedule</b>	Not assigned
<b>Uses</b>	Construction sealant
<b>Company Details</b>	
<b>Company</b>	<b>Ramset New Zealand</b>
<b>Address</b>	A Division of ITW New Zealand 29 Poland Rd Glenfield Auckland 0627 New Zealand
<b>Telephone</b>	+64 9 444-3510

**Emergency Telephone Number: 09 444-3510 (Monday to Friday. 8:00 am to 5:00 pm)**  
**POISON CENTRE NUMBER: 0800 764 766 (24 Hours)**

**2. Hazard Identification****Hazard Classifications**

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006, HSR002670), and is classified as follows:

Classes:

6.3B mild skin irritant

6.4A eye irritant

**SYMBOLS****WARNING****Other Classifications**

There are no other classifications that are known to apply.

**Hazard and Precautionary Statements**

**Hazard** Causes eye irritation.  
Causes mild skin irritation.

**Precautionary** Keep out of reach of children. Read label before use.  
Wash hands thoroughly after handling.  
Wear protective gloves, eye/face protection.

Further precautionary statements can be found in Section 4 – First Aid.

When curing is complete, the resulting product is an inert, non-toxic, solid SMP elastomer; it is not hazardous.

### 3. Composition / Information on Ingredients

Component	CAS/ Identification	Class for ingredient(s)	Conc (% w/w)
3(2Aminoethylamino)propyl-trimethoxyvinylsilane	1760-24-3	9.1C	<1%
Dodecanoic bis(2,2,4,6 Tetramethyl-4-piperidinyl)ester	52829-07-9	6.4A, 9.1B	<1%
Diisodecyl Phthalate	26761-40-0	6.3B, 6.4A	10-60%
Non-hazardous ingredients	Mixture	Non hazardous	Up to 100%

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

### 4. First Aid

#### General Information

You should call the National Poisons Centre if you feel that you may have been harmed, burned or irritated by this product. The number is 0800 764 766 (0800 POISON) (24 hr emergency service).

If medical advice is needed, have this MSDS, product container or label at hand. If exposed or concerned: Get medical advice/ attention.

**Recommended first aid facilities** Ready access to running water is required. Accessible eyewash is recommended.

#### Exposure

**Swallowed** IF SWALLOWED: Do NOT induce vomiting. Rinse mouth. Contact a doctor if you feel unwell.

**Eye contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If irritation persists, call a POISON CENTER or doctor/physician.

**Skin contact** IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash before re-use.

**Inhaled** IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. If patient is unconscious, place in the recovery position (on the side) for transport and contact a doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

#### Advice to Doctor

Treat symptomatically

### 5. Firefighting Measures

**Fire and explosion hazards:** There are no specific risks for fire/explosion for this chemical. It is non-flammable.  
**Suitable extinguishing substances:** Not applicable.

**Unsuitable extinguishing substances:** Unknown.

**Products of combustion:** Product may decompose in a fire and produce toxic or corrosive fumes. Hazardous decomposition products include carbon oxides, silicon dioxides and traces of formaldehyde.

**Protective equipment:** Self-contained breathing apparatus. Safety boots, non-flammable overalls, gloves, hat and eye protection.

**Hazchem code:** 1T (recommended, HAZCHEM signage not required)

## 6. Accidental Release Measures

<b>Containment</b>	There is no current legal requirement for secondary containment of this product. Prevent product from entering environment.
<b>Emergency procedures</b>	In the event of spillage alert the fire brigade to location and give brief description of hazard. Wear protective equipment to prevent skin, eye and respiratory exposure. Clear area of any unprotected personnel. Contain spill. Prevent by whatever means possible any spillage from entering drains, sewers, or water courses.
<b>Clean-up method</b>	Collect product and seal in properly labelled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
<b>Disposal</b>	Mop up and collect recoverable material into labelled containers for recycling or salvage. Recycle containers wherever possible. This material may be suitable for approved landfill. Dispose of only in accord with all regulations.
<b>Precautions</b>	Slippery when spilt. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapour. Work up wind or increase ventilation.

## 7. Storage & Handling

<b>Storage</b>	Avoid storage of harmful substances with food. Store out of reach of children. Containers should be kept closed in order to minimise contamination. Keep in a cool, dry place. Avoid contact with incompatible substances as listed in Section 10.
<b>Handling</b>	Keep exposure to a minimum, and minimise the quantities kept in work areas. See section 8 with regard to personal protective equipment requirements. Avoid skin and eye contact and inhalation of vapour.

## 8. Exposure Controls / Personal Protective Equipment

### Workplace Exposure Standards

A workplace exposure standard (WES) has not been established by the NZ Department of Labour for this product. There is a general limit of 10mg/m<sup>3</sup> for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Stds (OSH 2011)	Ingredient	WES-TWA	WES-STEL
	3(2Aminoethylamino)propyl-trimethoxyvinylsilane	Data unavailable	Data unavailable
	Dodecanoic bis(2,2,4,6 Tetramethyl-4-piperidiny)ester	Data unavailable	Data unavailable
	Diisodecyl Phthalate	Data unavailable	Data unavailable

### Engineering Controls

In industrial situations, it is expected that employee exposure to hazardous substances will be controlled to a level as far below the WES as practicable by applying the hierarchy of control required by the Health and Safety in Employment Act 1992 (HSE). Exposure can be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify processes or increase ventilation.

## Personal Protective Equipment

### Eyes



To protect eyes, it is recommended that goggles, safety glasses or full face mask be worn. Avoid wearing contact lenses.

### Skin



Avoid repeated or prolonged skin contact. Wear overalls, rubber boots and impervious gloves, e.g. nitrile rubber, NBR gloves. Remove protective clothing and wash exposed areas with soap and water prior to eating, drinking or smoking. Wash hands after handling.

### Respiratory

A respirator when airborne concentrations approach the WES (section 8) should be used. If using a respirator, ensure that the cartridges are correct for the potential air contamination and are in good working order.

## WES Additional Information

No additional information

## 9. Physical & Chemical Properties

<b>Appearance</b>	Non flowing Paste (various colours)
<b>Odour</b>	Virtually odourless
<b>pH</b>	Not available
<b>Vapour pressure</b>	Not determined
<b>Viscosity</b>	Not determined
<b>Boiling point</b>	Not applicable
<b>Volatile materials</b>	Not applicable
<b>Freezing / melting point</b>	Not available
<b>Solubility</b>	Very low solubility in water (<1%)
<b>Specific gravity / density</b>	1.45g/L (±0.05)
<b>Flash point</b>	Non flammable
<b>Danger of explosion</b>	Not explosive
<b>Auto-ignition temperature</b>	Non flammable
<b>Upper &amp; lower flammable limits</b>	Non flammable
<b>Corrosiveness</b>	Non corrosive to metals

## 10. Stability & Reactivity

<b>Stability</b>	This product is thermally stable when stored and used as directed.
<b>Conditions to be avoided</b>	None known.
<b>Incompatible groups</b>	None known.
<b>Hazardous decomposition products</b>	Thermal decomposition products may include carbon oxides, silicon dioxides and traces of formaldehyde. Mixture does depend on the conditions.
<b>Hazardous reactions</b>	None known.

## 11. Toxicological Information

### Summary

No specific data is available for this product. Where available, toxicological data has been researched and data for the mixture calculated. The results of these calculations are presented below. The product is considered to have the following toxicity:

### Supporting Data

<b>Acute</b>	<b>Oral</b>	Using LD <sub>50</sub> 's for ingredients, the estimated LD <sub>50</sub> (oral, rat) for the mixture is > 5,000 mg/kg. Data available: 3(2Aminoethylamino)propyl-trimethoxyvinylsilane: 7.46mL/kg (rat), Dodecanoic bis(2,2,4,6 Tetramethyl-4-piperidinyl)ester: 3700mg/kg (rat), Diisodecyl Phthalate 62g/kg (rat)
	<b>Dermal</b>	Using LD <sub>50</sub> 's for ingredients, the estimated LD <sub>50</sub> (dermal, rat) for the mixture is >5,000 mg/kg. 3(2Aminoethylamino)propyl-trimethoxyvinylsilane, LDLo: 16ml/kg (rabbit), Dodecanoic bis(2,2,4,6 Tetramethyl-4-piperidinyl)ester: >3100mg/kg (rat), Diisodecyl Phthalate >3160mg/kg (rabbit)
	<b>Inhaled</b>	Inhalation may cause irritation to the mucous membranes and the respiratory tract. An aerosol mist of the silane/siloxane may cause lung damage if inhaled. Using LC <sub>50</sub> 's for ingredients, the estimated LC <sub>50</sub> (inhalation, rat) for the mixture is >5,000 ppm. Dodecanoic bis(2,2,4,6 Tetramethyl-4-piperidinyl)ester LDLo: 0.96mg/L (rat)
	<b>Eye</b>	The uncured sealant is irritating to the eye. Diisodecyl Phthalate is an eye irritant at higher concentrations. The cured sealant is not expected to cause irritation. Diisodecyl Phthalate is a mild skin irritant at higher concentrations.
	<b>Skin</b>	The mixture is considered to be a skin irritant, because one of the ingredients (Diisodecyl Phthalate) present is considered a skin corrosive at higher concentrations. The cured sealant is not expected to cause irritation.
<b>Chronic</b>	<b>Sensitisation</b>	The uncured mixture is not considered to be a sensitizer, because none of the ingredients present in greater than 0.1% are known to be sensitizers.
	<b>Mutagenicity</b>	No data for mixture is available. No ingredient present at concentrations > 0.1% is considered a mutagen.
	<b>Carcinogenicity</b>	No data for mixture is available. No ingredient present in the uncured mixture at concentrations > 0.1% is considered a carcinogen.
	<b>Reproductive / Developmental Systemic</b>	Diisodecyl Phthalate is not considered a reproductive or developmental toxicant, However other Phthalates have been shown to reduce fertility in humans. Diisodecyl Phthalate is a phthalate derivative: in animal experiments, no evidence of systemic effects. Other phthalate derivatives have shown to affect the nervous system.
	<b>Aggravation of existing conditions</b>	None known.

## 12. Ecological Data

### Summary

No specific data is available for this product. Where available, ecotoxicological data has been researched and data for the mixture calculated. The results of these calculations are presented below. The product is considered to have the following ecotoxicity groups:

### Supporting Data

<b>Aquatic</b>	No data for mixture is available. Using EC <sub>50</sub> 's for ingredients, the estimated EC <sub>50</sub> for the mixture is > 100 mg/L.
<b>Bioaccumulation</b>	Not biodegradable.
<b>Degradability</b>	Not applicable.
<b>Soil</b>	No data available for the mixture.
<b>Terrestrial vertebrate</b>	This product is not considered harmful to terrestrial vertebrates. No LC <sub>50</sub> (diet) data for ingredients are available and the classification is based on the LD <sub>50</sub> (oral) – see section 11 – oral toxicity.
<b>Terrestrial invertebrate</b>	The mixture is not considered harmful to terrestrial invertebrates.
<b>Biocidal</b>	Not applicable

**13. Disposal Considerations**

<b>Restrictions</b>	There are no product-specific restrictions, however, local council and resource consent conditions may apply, including requirements of trade waste consents.
<b>Disposal method</b>	Disposal of this product must comply with the requirements of the Resource Management Act for which approval should be sought from the Regional Authority. The substance must be treated and therefore rendered non-hazardous before discharge to the environment.
<b>Contaminated packaging</b>	Rinse containers with water before disposal. Preferably re-cycle container, otherwise send to landfill or similar.

**14. Transport Information**

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). It is not considered a hazardous substance for transport.

<b>UN number:</b>	Not assigned	<b>Proper shipping name:</b>	Not applicable
<b>Class(es)</b>	Not applicable	<b>Packing group:</b>	Not applicable
<b>Precautions:</b>	Not applicable	<b>Hazchem code:</b>	1T (recommended)

**15. Regulatory Information**

This product has been transferred to HSNO (transferred substance), EPA approval code: Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006, HSR002670)

**Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)**

Key workplace requirements are:

MSDS	To be available within 10 minutes in workplaces storing >50kg or 50L.
Labelling	No removal of labels and/or decanting of product into other containers can occur.
Emergency plan	Not required.
Approved handler	Not required.
Tracking	Not required.
Bunding and secondary containment	Not required.
Signage	Not required.
Location Test certificate	Not required.
Flammable zone	Not required.
Fire extinguisher	Not required.

**Other Legislation**

In New Zealand, the use of this product may come under the Resource Management Act and Regulations, the Health, Safety in Employment Act and Regulations, local Council Rules and Regional Council Plans.

**16. Other Information**
**Abbreviations**

<b>Approval Code</b>	Approval Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2006, HSR002670, Controls, EPA. <a href="http://www.epa.govt.nz">www.epa.govt.nz</a>
<b>CAS Number</b>	Unique Chemical Abstracts Service Registry Number
<b>Ceiling</b>	Ceiling Exposure Value: The maximum airborne concentration of a biological or chemical agent to which a worker may be exposed at any time.
<b>Controls Matrix</b>	List of default controls linking regulation numbers to Matrix code (e.g. T1, I16).
<b>EC<sub>50</sub></b>	Ecotoxic Concentration 50% – concentration in water which is fatal to 50% of a test population (e.g. daphnia, fish species)
<b>EPA</b>	Environmental Protection Authority (previously known as ERMA)
<b>ERMA</b>	Environmental Risk Management Authority (now EPA)
<b>HAZCHEM Code</b>	Emergency action code of numbers and letters that provide information to emergency services, especially fire fighters
<b>HSNO</b>	Hazardous Substances and New Organisms (Act and Regulations)
<b>IARC</b>	International Agency for Research on Cancer
<b>LEL</b>	Lower Explosive Limit
<b>LD<sub>50</sub></b>	Lethal Dose 50% – dose which is fatal to 50% of a test population (usually rats).
<b>LC<sub>50</sub></b>	Lethal Concentration 50% – concentration in air which is fatal to 50% of a test population (usually rats)
<b>MSDS</b>	Material Safety Data Sheet (or Safety Data Sheet)
<b>OSH</b>	The Occupational Safety and Health Service of the Department of Labour (NZ)
<b>STEL</b>	Short Term Exposure Limit - The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15 minute period, provided the TWA is not exceeded
<b>TWA</b>	Time Weighted Average – generally referred to WES averaged over typical work day (usually 8 hours)
<b>UEL</b>	Upper Explosive Limit
<b>UN Number</b>	United Nations Number
<b>WES</b>	Workplace Exposure Standard - The airborne concentration of a biological or chemical agent to which a worker may be exposed.

**References**

<b>Data</b>	Unless otherwise stated comes from the EPA HSNO chemical classification information database (CCID) <a href="http://www.epa.govt.nz/hs/compliance/chemicals.html">http://www.epa.govt.nz/hs/compliance/chemicals.html</a> , for specific chemicals.
<b>EPA Transfer Gazettes</b>	Classifications and controls assigned for specific ingredients (consolidated gazette, 2004)
<b>Controls Matrix</b>	Part of the EPA New Zealand User Guide to the HSNO Control Regulations
<b>WES 2011</b>	The NZ Workplace Exposure Standards Effective from 2011, published by OSH and available on their web site – <a href="http://www.osh.dol.govt.nz">www.osh.dol.govt.nz</a> .
<b>Other References:</b>	Suppliers MSDS, ChemIDplus

**Review**

<b>Date</b>	<b>Reason for review</b>
<b>December 2011</b>	NA – new MSDS
<b>Jan 2013</b>	Re issued

**Disclaimer**

This MSDS was prepared by Datachem LTD and is based on our current state of knowledge, including information obtained from suppliers. The MSDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties (as summarised in the MSDS) AND HOW THE SUBSTANCE IS USED. While guidelines are given for personal protective equipment, such precautions must be relevant to the use. The likely HSNO classifications, are based on our experience, EPA Guidelines and international classifications. This MSDS is copyright Datachem and must not be copied, edited or used for other than intended purpose. To contact the MSDS author, email [info@datachem.co.nz](mailto:info@datachem.co.nz) or phone: **+64 9 940 30 80**.

