

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

### 1.1 Product identifier

**Product name** NOX-CRETE SILCOSEAL CLASSIC BOND BREAKER  
**Synonyms** NOX CRETE SILCOSEAL CLASSIC BOND BREAKER • NOXSILCOCLASS20, NOXSILCOCLASS200 - PRODUCT CODE(S)

### 1.2 Uses and uses advised against

**Uses** BOND BREAKER • INDUSTRIAL APPLICATIONS

### 1.3 Details of the supplier of the product

**Supplier name** RAMSETREID (A DIVISION OF ITW AUSTRALIA LTD) (REID NZ)  
**Address** 23-29 Poland Road, Glenfield, Auckland, NEW ZEALAND  
**Telephone** 0800 726 738  
**Email** [sales@ramsetreid.co.nz](mailto:sales@ramsetreid.co.nz)  
**Website** <http://www.ramset.co.nz>

### 1.4 Emergency telephone numbers

**Emergency** 0800 734 607

## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

HAZARDOUS ACCORDING TO NZ ENVIRONMENTAL PROTECTION AUTHORITY CRITERIA

#### Physical Hazards

Flammable Liquids: Category 3

#### Health Hazards

Acute Toxicity: Inhalation: Category 4  
Aspiration Hazard: Category 1  
Carcinogenicity: Category 2  
Serious Eye Damage / Eye Irritation: Category 1  
Skin Corrosion/Irritation: Category 2  
Specific Target Organ Toxicity (Repeated Exposure): Category 2  
Specific Target Organ Toxicity (Single Exposure): Category 3 (Narcotic Effects)  
Specific Target Organ Toxicity (Single Exposure): Category 3 (Respiratory Irritation)  
Toxic to Reproduction: Category 1A

#### Environmental Hazards

Aquatic Toxicity (Chronic): Category 3

### 2.2 GHS Label elements

**Signal word** DANGER

**Pictograms**



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|      |  |
|------|--|
| H226 | Flammable liquid and vapour.                                       |
| H304 | May be fatal if swallowed and enters airways.                      |
| H315 | Causes skin irritation.  |
| H318 | Causes serious eye damage.   |
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H336 | May cause drowsiness or dizziness.                                 |
| H351 | Suspected of causing cancer.                                       |
| H360 | May damage fertility or the unborn child.                          |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects.                 |

**Prevention statements**

|      |  |
|------|--|
| P201 | Obtain special instructions before use.  |
| P202 | Do not handle until all safety precautions have been read and understood.                      |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P233 | Keep container tightly closed.   |
| P240 | Ground and bond container and receiving equipment.   |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment.                                 |
| P242 | Use non-sparking tools.  |
| P243 | Take action to prevent static discharges.  |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P264 | Wash thoroughly after handling.  |
| P271 | Use only outdoors or in a well-ventilated area.  |
| P273 | Avoid release to the environment.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  |

**Response statements**

|                    |  |
|--------------------|--|
| P303 + P361 + P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                              |
| P304 + P340        | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313        | IF exposed or concerned: Get medical advice/ attention.  |
| P310               | Immediately call a POISON CENTRE or doctor/physician.  |
| P321               | Specific treatment is advised - see first aid instructions.  |
| P331               | Do NOT induce vomiting.  |
| P362 + P364        | Take off contaminated clothing and wash it before reuse.   |
| P370 + P378        | In case of fire: Use appropriate media to extinguish.  |

**Storage statements**

|                    |   |
|--------------------|---|
| P403 + P233 + P235 | Store in a well-ventilated place. Keep cool. Keep container tightly closed. |
| P405               | Store locked up.  |

**Disposal statements**

|      |  |
|------|--|
| P501 | Dispose of contents/container in accordance with relevant regulations. |
|------|--|

**2.3 Other hazards**

No information provided.

**3. COMPOSITION/ INFORMATION ON INGREDIENTS****3.1 Substances / Mixtures**

| Ingredient                        | CAS Number | EC Number | Content   |
|-----------------------------------|------------|-----------|-----------|
| TOLUENE                           | 108-88-3   | 203-625-9 | <11%      |
| ALCOHOL(S)                        | -          | -         | <10%      |
| 1,2,4-TRIMETHYLBENZENE            | 95-63-6    | 202-436-9 | <6%       |
| XYLENE                            | 1330-20-7  | 215-535-7 | <2%       |
| CUMENE (ISOPROPYL BENZENE)        | 98-82-8    | 202-704-5 | <1%       |
| ETHYLBENZENE                      | 100-41-4   | 202-849-4 | <1%       |
| HYDROTREATED PETROLEUM DISTILLATE | -          | -         | >60%      |
| ADDITIVE(S)                       | -          | -         | Remainder |

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## 4. FIRST AID MEASURES

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### 4.1 Description of first aid measures

|                             |  |
|-----------------------------|--|
| <b>Eye</b>                  | If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.                 |
| <b>Inhalation</b>           | If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.  |
| <b>Skin</b>                 | If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor. |
| <b>Ingestion</b>            | For advice, contact the National Poisons Centre on 0800 764 766 (0800 POISON) or +643 479 7248 or a doctor (at once). If swallowed, do not induce vomiting.  |
| <b>First aid facilities</b> | Eye wash facilities and safety shower should be available.   |

### 4.2 Most important symptoms and effects, both acute and delayed

May damage fertility or the unborn child. Repeated exposure to toluene may result in central nervous system (CNS), liver and kidney damage.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

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## 5. FIRE FIGHTING MEASURES

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### 5.1 Extinguishing media

Dry agent, carbon dioxide or foam. Prevent contamination of drains and waterways.

### 5.2 Special hazards arising from the substance or mixture

Flammable. May evolve carbon oxides and hydrocarbons when heated to decomposition. Vapour may form explosive mixtures with air. Eliminate all ignition sources including cigarettes, open flames, spark producing switches/tools, heaters, naked lights, pilot lights, mobile phones, etc when handling. Earth containers when dispensing fluids.

### 5.3 Advice for firefighters

Evacuate area and contact emergency services. Toxic gases may be evolved in a fire situation. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

### 5.4 Hazchem code

- 3Y
- 3 Alcohol Resistant Foam is the preferred firefighting medium but, if it is not available, normal foam can be used.
- Y Risk of violent reaction or explosion. Wear full fire kit and breathing apparatus. Contain spill and run-off.

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## 6. ACCIDENTAL RELEASE MEASURES

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

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal. Eliminate all sources of ignition.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

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## 7. HANDLING AND STORAGE

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### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

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

Store in a cool, dry, well ventilated area, preferably flammables store, removed from direct sunlight, incompatible substances, heat or ignition sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should have appropriate ventilation and fire protection systems.

### 7.3 Specific end uses

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient        | Reference | TWA |                   | STEL |                   |
|-------------------|-----------|-----|-------------------|------|-------------------|
|                   |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Cumene            | WES [NZ]  | 25  | 125               | 75   | 375               |
| Ethyl benzene     | WES [NZ]  | 100 | 434               | 125  | 543               |
| Mineral Oil Mist  | WES [NZ]  | --  | 5                 | --   | --                |
| Toluene           | WES [NZ]  | 50  | 188               | --   | --                |
| Trimethyl benzene | WES [NZ]  | 25  | 123               | --   | --                |
| Xylene            | WES [NZ]  | 50  | 217               | --   | --                |

#### Biological limits

| Ingredient   | Determinant  | Sampling Time                   | BEI                 |
|--------------|--|---------------------------------|---------------------|
| ETHYLBENZENE | Sum of mandelic acid and phenylglyoxylic acid in urine | End of shift                    | 0.15 g/g creatinine |
| TOLUENE      | o-Cresol in urine (with hydrolysis)                    | End of shift                    | 0.3 mg/g creatinine |
|              | Toluene in urine                                       | End of shift                    | 0.03 mg/L           |
|              | Toluene in blood                                       | Prior to last shift of workweek | 0.02 mg/L           |
| XYLENE       | Methylhippuric acids in urine                          | End of shift                    | 1.5 g/g creatinine  |

Reference: ACGIH Biological Exposure Indices

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical explosion proof extraction ventilation is recommended. Flammable/explosive vapours may accumulate in poorly ventilated areas. Vapours are heavier than air and may travel some distance to an ignition source and flash back.

#### PPE

- Eye / Face** Wear splash-proof goggles.
- Hands** Wear PVA or viton® gloves.
- Body** Wear coveralls.
- Respiratory** Where an inhalation risk exists, wear a Type A (Organic vapour) respirator. If spraying, wear a Type A-Class P1 (Organic gases/vapours and Particulate) respirator or an Air-line respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|               |                      |
|---------------|----------------------|
| Appearance    | RED LIQUID           |
| Odour         | SLIGHT SOLVENT ODOUR |
| Flammability  | FLAMMABLE            |
| Flash point   | 24°C (cc)            |
| Boiling point | 94°C                 |
| Melting point | NOT AVAILABLE        |

**9.1 Information on basic physical and chemical properties**

|                           |               |
|---------------------------|---------------|
| Evaporation rate          | NOT AVAILABLE |
| pH                        | NOT AVAILABLE |
| Vapour density            | NOT AVAILABLE |
| Relative density          | 0.81          |
| Solubility (water)        | INSOLUBLE     |
| Vapour pressure           | NOT AVAILABLE |
| Upper explosion limit     | NOT AVAILABLE |
| Lower explosion limit     | NOT AVAILABLE |
| Partition coefficient     | NOT AVAILABLE |
| Autoignition temperature  | NOT AVAILABLE |
| Decomposition temperature | NOT AVAILABLE |
| Viscosity                 | NOT AVAILABLE |
| Explosive properties      | NOT AVAILABLE |
| Oxidising properties      | NOT AVAILABLE |
| Odour threshold           | NOT AVAILABLE |

**9.2 Other information**

|     |           |
|-----|-----------|
| VOC | < 700 g/L |
|-----|-----------|

**10. STABILITY AND REACTIVITY**

**10.1 Reactivity**

Carefully review all information provided in sections 10.2 to 10.6.

**10.2 Chemical stability**

Stable under recommended conditions of storage.

**10.3 Possibility of hazardous reactions**

Polymerization will not occur.

**10.4 Conditions to avoid**

Avoid heat, sparks, open flames and other ignition sources.

**10.5 Incompatible materials**

Incompatible with oxidising agents (e.g. hypochlorites), acids (e.g. nitric acid), alkalis (e.g. sodium hydroxide), heat and ignition sources.

**10.6 Hazardous decomposition products**

May evolve carbon oxides and hydrocarbons when heated to decomposition.

**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity** Harmful if inhaled. Acute exposure may result in nausea, vomiting, abdominal pain, diarrhoea, dizziness and drowsiness.

**Information available for the ingredients:**

| Ingredient                 | Oral LD50                     | Dermal LD50           | Inhalation LC50                        |
|----------------------------|-------------------------------|-----------------------|--|
| TOLUENE                    | 5580 mg/kg (rat)              | 5000 mg/kg (rabbit)   | 25.7 - 30 mg/L/4hrs (rat)              |
| 1,2,4-TRIMETHYLBENZENE     | 6000 mg/kg (rat)              | --                    | 18 g/m <sup>3</sup> /4hrs (rat)        |
| XYLENE                     | > 2000 mg/kg (rat)<br>(AICIS) | > 1700 mg/kg (rabbit) | 5000 ppm (rat)                         |
| CUMENE (ISOPROPYL BENZENE) | 1400 mg/kg (rat)              | 12300 ug/kg (rabbit)  | 24700 mg/m <sup>3</sup> /2H<br>(mouse) |
| ETHYLBENZENE               | 3500 mg/kg (rat)              | 17800 mg/kg (rabbit)  | 17.8 mg/l/4 hours (rat)                |

**Skin** Irritating to the skin. Contact may result in irritation, redness, rash and dermatitis.

**Eye** Causes serious eye irritation. Contact may result in irritation, lacrimation, pain and redness.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

**Mutagenicity** Not classified as a mutagen.

**Carcinogenicity** Suspected of causing cancer. Ethylbenzene and cumene are classified as possibly carcinogenic to humans

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(IARC Group 2B).

**Reproductive**

Over exposure to toluene may damage fertility or the unborn child.

**STOT - single exposure**

Over exposure may result in irritation of the nose and throat, coughing, nausea and headache. High level exposure may result in dizziness, drowsiness, breathing difficulties and unconsciousness.

**STOT - repeated exposure**

Repeated exposure to toluene may result in central nervous system (CNS), liver and kidney damage.

**Aspiration**

Aspiration into the lungs may result in chemical pneumonitis and pulmonary oedema.

**12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

No information provided.

**12.3 Bioaccumulative potential**

No information provided.

**12.4 Mobility in soil**

No information provided.

**12.5 Other adverse effects**

No information provided.

**13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Waste disposal**

Dispose of in accordance with advice from your State's Environmental Protection Authority.

**Legislation**

Dispose of in accordance with relevant local legislation.

**14. TRANSPORT INFORMATION**

CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005; NZS 5433:2012, UN, IMDG OR IATA



|                                    | LAND TRANSPORT (NZS 5433) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|------------------------------------|---------------------------|----------------------------|-----------------------------|
| <b>14.1 UN Number</b>              | 1263                      | 1263                       | 1263                        |
| <b>14.2 Proper Shipping Name</b>   | PAINT RELATED MATERIAL    | PAINT RELATED MATERIAL     | PAINT RELATED MATERIAL      |
| <b>14.3 Transport hazard class</b> | 3                         | 3                          | 3                           |
| <b>14.4 Packing Group</b>          | III                       | III                        | III                         |

**14.5 Environmental hazards**

Not a Marine Pollutant.

**14.6 Special precautions for user**

Hazchem code ●3Y

EmS F-E, S-E

**15. REGULATORY INFORMATION**

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

|                           |  |
|---------------------------|--|
| <b>Approval code</b>      | HSR002512  |
| <b>Group standard</b>     | Additives, Process Chemicals and Raw Materials (Carcinogenic) Group Standard   |
| <b>Inventory listings</b> | <b>AUSTRALIA: AIIC (Australian Inventory of Industrial Chemicals)</b><br>All components are listed on AIIC, or are exempt.<br><b>NEW ZEALAND: NZIoC (New Zealand Inventory of Chemicals)</b><br>All components are listed on the NZIoC inventory, or are exempt. |

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**16. OTHER INFORMATION**

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**Additional information** PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:  
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:  
It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | ACGIH             | American Conference of Governmental Industrial Hygienists                                       |
|                      | CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                 |
|                      | CCID              | Chemical Classification and Information Database (HSNO)   |
|                      | CNS               | Central Nervous System  |
|                      | EC No.            | EC No - European Community Number   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                   |
|                      | EPA               | Environmental Protection Authority [New Zealand]  |
|                      | GHS               | Globally Harmonized System  |
|                      | HSNO              | Hazardous Substances and New Organisms  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | STOT-RE           | Specific target organ toxicity (repeated exposure)  |
|                      | STOT-SE           | Specific target organ toxicity (single exposure)  |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |

**Report status** This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

**PRODUCT NAME NOX-CRETE SILCOSEAL CLASSIC BOND BREAKER**

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**[ End of SDS ]**