# **Material Safety Data Sheet**



**RESTORE** 

## 1. Identification of the material and supplier

Trade name of product :

: RESTORE

ADG

: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate, sodium

carbonate)

Supplier

ECOLAB PTY LTD (A.B.N. 59 000 449 990) 6 Hudson Ave, Castle Hill NSW 2154 Customer Service phone: 1 800 022 002

Free Fax Number: 1 800 655 679

**Emergency telephone** 

number

: 1 800 124 170

Material uses : Presoak

Product dilution information : Use up to 1.2% with water

Date of issue : 30 May 2012

### 2. Hazards identification

Statement of : C

hazardous/dangerous

nature

Product AS SOLD

: Classified as hazardous according to the criteria of Safe Work Australia and classified as dangerous goods according to the ADG

Code.

Classification

: C - Corrosive

Risk phrases : R34- Causes burns.

R41- Risk of serious damage to eyes.

Safety phrases

: S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

S28- After contact with skin, wash immediately

with plenty of water.

S36/37/39- Wear suitable protective clothing.

gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the

label where possible).

#### **Product AT USE DILUTION**

Not classified as hazardous according to the criteria of Safe Work Australia nor classified as dangerous goods according to the ADG Code.

Not applicable.

Not classified.

Not applicable.

# 3. Composition/information on ingredients

#### **Product AS SOLD**

Ingredient name	CAS number	Concentration % (w/w)
sodium percarbonate	15630-89-4	30 - 60
disodium metasilicate	6834-92-0	10 - <30
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	166736-08-9	<10

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

#### **Product AT USE DILUTION**

Ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

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### 4. First-aid measures

**Product AS SOLD** 

Eye contact : In case of contact, immediately flush eyes with

plenty of water for at least 15 minutes. Get

medical attention immediately.

Skin contact : In case of contact, immediately flush skin with

plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

Inhalation : If inhaled, remove to fresh air.

Ingestion : Do not induce vomiting. Rinse mouth; then drink

> one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26). Never give anything by mouth to an unconscious person. If vomiting occurs, the head should be kept low so that vomit does not enter

the lungs.

Notes to physician : Probable mucosal damage may contraindicate

> the use of gastric lavage. Measures against circulatory shock, respiratory depression and

convulsions may be needed.

**Product AT USE DILUTION** 

Rinse with plenty of running water. Get medical attention if symptoms occur.

In case of contact, immediately flush skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse.

Remove to fresh air. Get medical attention if symptoms occur.

Do not induce vomiting. Rinse mouth; then drink one or two large glasses of water. Contact a doctor or a Poisons Information Centre (Phone: 13 11 26).

No specific treatment. Treat symptomatically.

## 5. Fire-fighting measures

#### **Product AS SOLD**

Hazchem code

: 2X

Extinguishing media

Fire-fighting media and

instructions

: Use dry chemical powder.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water

spray to keep fire-exposed containers cool.

Fire/explosion hazards

Special protective equipment for fire-fighters

Hazardous thermal

decomposition products

: No specific hazard.

: Fire-fighters should wear appropriate protective equipment and self-contained breathing

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

carbon dioxide carbon monoxide sulfur oxides

6. Accidental release measures

: Decomposition products may include the following materials:

# metal oxide/oxides

#### **Product AS SOLD**

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use

suitable protective equipment.

**Environmental** precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers,

waterways, soil or air).

#### **Product AT USE DILUTION**

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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### 6. Accidental release measures

Methods for cleaning up

: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Avoid creating dusty conditions and prevent wind dispersal. Use spark-proof tools and explosionproof equipment. Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

#### Handling

#### **Product AS SOLD**

: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

#### Product AT USE DILUTION

Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

Storage

: Keep container tightly closed. Keep container in Keep container tightly closed. Keep container a cool, well-ventilated area.

in a cool, well-ventilated area.

# 8. Exposure controls/personal protection

**Product AS SOLD** 

Occupational exposure: No exposure standard allocated.

limits

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### **Exposure controls/personal protection**

#### **Product AS SOLD**

#### **Engineering measures** : Use only with adequate ventilation. Use

process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Use explosion-proof ventilation equipment.

#### Product AT USE DILUTION

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Personal protection**

Skin

**Eyes** : Wear chemical splash goggles. For continued or severe exposure wear a face shield over the

goggles.

Hands : Use chemical-resistant, impervious gloves.

Recommended: Elbow length PVC gloves.

Respiratory : If ventilation is inadequate, use respirator that

will protect against organic vapour and dust/mist. Respiratory protection should conform to AS/NZS 1715 and AS/NZS 1716.

: Use synthetic apron, other protective equipment

as necessary to prevent skin contact.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

: Wash hands, forearms and face thoroughly after handling chemical products, before Hygiene measures

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and

safety showers are close to the workstation location.

# 9. Physical and chemical properties

#### **Product AS SOLD**

Physical state : Powder Colour : opaque Odour : Odourless

рH : 11 to 11.4 [Conc. (% w/w): 1%]

Flash point : > 100°C

Solubility : Easily soluble in the following materials: cold

water and hot water.

#### **Product AT USE DILUTION**

Liquid. opaque Odourless 10 to 11.5 > 100°C

# 10. Stability and reactivity

#### **Product AS SOLD**

**Stability** : The product is stable.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire

or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation.

Materials to avoid Reactive or incompatible with the following materials: metals and acids.

Slightly reactive or incompatible with the following materials: organic materials.

**Hazardous decomposition** products

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

: Under normal conditions of storage and use, hazardous reactions will not occur.

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# 11. Toxicological information

### Potential acute health effects

**Product AS SOLD** 

**Inhalation** : May give off gas, vapor or dust that is very

irritating or corrosive to the respiratory system.

**Ingestion**: May cause burns to mouth, throat and stomach.

**Skin contact**: Corrosive to the skin. Causes burns.

**Eye contact**: Corrosive to eyes. Causes burns.

### **Product AT USE DILUTION**

No known significant effects or critical

hazards.

### Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

# 12. Ecological information

### **Product AS SOLD**

#### **Ecotoxicity data**

Product/ingredient name	Result	Species	Exposure
disodium metasilicate	Acute EC50 4857 mg/L Acute LC50 3185 mg/L Acute LC50 2320 mg/L		48 hours 96 hours 96 hours

Persistence/degradability

: Not available.

Mobility

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## 13. Disposal considerations

#### Methods of disposal

#### **Product AS SOLD**

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

#### Product AT USE DILUTION

The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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## 14. Transport information

#### **Product AS SOLD**

Regulation	UN number	Proper shipping name	Classes	Packing group	Additional information
ADG	UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate, sodium carbonate)	8	II	<u>Hazchem code</u> 2X
IMDG	UN3262	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S., (Sodium metasilicate, Sodium carbonate)	8		Emergency schedules (EmS) F-A, S-B

#### **Product AT USE DILUTION**

Not intended for transport.

# 15. Regulatory information

**AU Classification** 

**Product AS SOLD** 

: Classified as hazardous according to the criteria of Safe Work Australia and classified as dangerous goods according to the ADG Code.

C - Corrosive R34- Causes burns.

R41- Risk of serious damage to eyes.

**Product AT USE DILUTION** 

Not classified as hazardous according to the criteria of Safe Work Australia nor classified as dangerous goods according to the ADG Code.

Not applicable. Not classified.

Australia inventory (AICS) : All substances are listed on AICS or exempt.

Standard for the Uniform Scheduling of Medicines and Poisons

85

**Control of Scheduled Carcinogenic Substances** 

Ingredient name	<u>Schedule</u>
No listed substance	

### 16. Other information

Prepared by : 25 April 2012

Date of previous issue

References

Regulatory Affairs

-ADG Code - Australian Transport of Dangerous Goods

-Adopted National Exposure Standard for Atmospheric Contaminants in the Occupational Environment

-Approved Criteria for Classifying Hazardous Substances

-List of Designated Hazardous Substances

-National Code of Practice for the Labelling of Workplace Substances

-National Code of Practice for the Preparation of Material Safety Data Sheets -National Model Regulations for the Control of Scheduled Carcinogenic Substances

-National Model Regulations for the Control of Workplace Hazardous Substances

-Standard for the Uniform Scheduling of Medicines and Poisons

### **Disclaimer**

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.

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