



## Safety Data Sheet

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Date of Issue:</b>	21 March 2023
<b>Product Name:</b>	<b>SmartSorb</b>
<b>Synonym(s):</b>	<b>SS15; SS35GP12; Diatomaceous Earth (uncalcined), Natural amorphous silica, DE.</b>
<b>Product Use(s):</b>	Absorbent for general purpose liquid spills, such as fuels, oils, coolants and non-aggressive chemicals.
<b>Supplier Contact Details:</b>	Ecospill Pty Ltd ABN: 45 144 563 977 PO Box 5592 Brendale BC QLD 4500 Ph: 07 3881 0554 Web: <a href="http://www.ecospill.com.au">www.ecospill.com.au</a>
<b>Emergency Contact Phone</b>	07 3881 0554 (24hrs)

### 2. HAZARDS IDENTIFICATION

<b>Classification of the substance or mixture:</b>	NOT CLASSIFIED AS HAZARDOUS ACCORDING TO AUSTRALIAN WHS REGULATIONS
<b>Precautionary Statement:</b>	P285 In case of inadequate ventilation wear respiratory protection.
<b>Additional Information:</b>	The cosmetic application of Diatomaceous earth has been assessed on the basis of the Tier 1 assessment by IMAP Accelerated Assessment of industrial chemicals in Australia. It is not considered to pose an unreasonable risk to the health of workers and public health.
<b>Other hazards:</b>	No information provided.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

The Maidenwell diatomite is composed predominantly of Melosira granulate diatoms with about 50% intact siliceous skeletons and the remainder broken skeletons. Total Silica generally exceeds 85% of dry sample weight.

#### Substances / Mixtures

Ingredient	CAS Number	ED Number	Content
Diatomaceous Earth	61790-53-2	-	>96%
Silica – Morphous (SiO <sub>2</sub> )			>80%
Silica - Crystalline			<1%
Arsenic			<10mg/kg
Lead			<10mg/kg

### 4. FIRST AID MEASURES

#### Description of First Aid Measures

<b>Eye</b>	If in eyes, hold eyelids apart and flush continuously with running water. If discomfort persists seek medical attention.
<b>Inhalation</b>	If a person breathes large amounts of this chemical, move the exposed person to fresh air at once. Other measures are usually unnecessary, but if discomfort persists, seek medical attention.
<b>Skin</b>	No known hazard. But if irritation occurs following skin contact, remove contaminated clothing and flush skin and hair with running water.
<b>Ingestion</b>	No known hazard.
<b>First aid facilities</b>	Access to water and fresh air.



**Most important symptoms and affects, both acute and delayed:**

Due to the product form, adverse health effects are not anticipated with normal use.

**Immediate medical attention and special treatment:**

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:**

This product is not flammable. However, as it is used to absorb oils, fuels and other messy liquids that may be considered combustible.

**Special hazards arising from the substance or mixture:**

This product is not flammable.

**Advice for firefighters:**

While this product is not flammable, other combustible nearby products may be present. If a fire event occurs, 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.

**Hazchem code:**

None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS.

**Environmental precautions:**

This product is not harmful to the environment. However, as this is an absorbent product, it should be prevented from entering drains and waterways.

**Methods of cleaning up:**

If spilt, collect and re-use where possible.

**Reference to other sections:**

See sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

**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.

**Condition for safe storage, including any incompatibilities:**

Store in a cool, dry, well ventilated area, removed from foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

**Specific end use(s):**

No information provided.

## 8. EXPOSURE CONTROLS / PROTECTION

**Control parameters:**

**Exposure Standards**

No exposure standards have been entered for this product.

**Biological Limits**

No biological limit values have been entered for this product.

**Exposure Controls:**

**Engineering controls**

Avoid inhalation. Use well in ventilated areas.

**PPE:**

**Eye/Face**

Not required under normal conditions of use.

**Hands**

Not required under normal conditions of use.

**Body**

Not required under normal conditions of use.

**Respiratory**

Not required under normal conditions of use.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties:

Appearance	GRAY SQUARE SHEET / ROLL
Odour	ODOURLESS
Flammability	COMBUSTIBLE
Flash point	NOT AVAILABLE
Boiling point	NOT AVAILABLE
Melting point	NOT AVAILABLE
Evaporation rate	NOT AVAILABLE
pH	NOT AVAILABLE

## 9. PHYSICAL AND CHEMICAL PROPERTIES continued...

Vapour density	NOT AVAILABLE
Specific gravity	NOT AVAILABLE
Solubility (water)	NOT AVAILABLE
Vapour pressure	NOT AVAILABLE
Upper explosion limit	NOT AVAILABLE
Lower explosion limit	NOT AVAILABLE
Partition coefficient	NOT AVAILABLE
Auto-ignition temperature	NOT AVAILABLE
Decomposition temperature	NOT AVAILABLE
Viscosity	NOT AVAILABLE
Explosive properties	NOT AVAILABLE
Oxidising properties	NOT AVAILABLE
Odour threshold	NOT AVAILABLE

## 10. STABILITY AND REACTIVITY

Reactivity:	Carefully review all information provided in sections 10.
Chemical stability:	Stable under recommended conditions of storage.
Possibility of hazardous reactions:	Polymerization will not occur.
Conditions to avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials:	Compatible with most commonly used materials.
Hazardous decomposition products:	May evolve carbon oxides and hydrocarbons when heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

Acute toxicity	<b>Information available for the product:</b> This product is expected to be of low toxicity. Due to the product form, adverse health effects are not anticipated with normal use.
Skin	Not classified as a skin irritant. Prolonged or repeated contact may result in mild irritation.
Eye	Exposure considered unlikely. Due to product form and nature of use, the potential for exposure is reduced.
Sensitisation	Not classified as causing skin or respiratory sensitization.
Mutagenicity	No evidence of mutagenic effects.
Carcinogenicity	No evidence of carcinogenic effects.
Reproductive	No relevant or reliable studies were identified.
STOT – single exposure	Not classified as causing organ damage from single exposure.
STOT – repeated exposure	Not classified as causing organ damage from repeated exposure.
Aspiration	Not relevant

## 12. ECOLOGICAL INFORMATION

Toxicity	No information provided.
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<b>Persistence and degradability</b>	No information provided.
<b>Bioaccumulative potential</b>	No information provided.
<b>Mobility in soil</b>	No information provided.
<b>Other adverse effects</b>	No information provided.

### 13. DISPOSAL CONSIDERATIONS

<b>Waste Treatment methods</b>	
<b>Waste disposal</b>	Dispose of to an approved landfill or waste processing site. Contact the manufacture/supplier for additional information if required.
<b>Legislation</b>	Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

	<b>LAND TRANSPORT (ADG)</b>	<b>SEA TRANSPORT (IMDG / IMO)</b>	<b>AIR TRANSPORT (IATA / ICAO)</b>
<b>UN Number</b>	None Allocated	None Allocated	None Allocated
<b>Proper Shipping Name</b>	None Allocated	None Allocated	None Allocated
<b>Transport Hazard Class</b>	None Allocated	None Allocated	None Allocated
<b>Packing Group</b>	None Allocated	None Allocated	None Allocated

<b>Environmental hazards</b>	No information provided
<b>Special precautions for user</b>	No information provided
<b>Hazchem code</b>	None Allocated

### 15. REGULATORY INFORMATION

<b>Safety health and environmental regulations / legislation specific for the substance or mixture</b>	
<b>Poison schedule</b>	A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)
<b>Classifications</b>	Safety Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals. The classifications and phrases listed below are based on the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008 (2004)].
<b>Hazard codes</b>	None allocated.
<b>Risk phrases</b>	None allocated.
<b>Safety phrases</b>	None allocated.
<b>Inventory listings</b>	<b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances):</b> All components are listed on AICS, or are exempt. <b>EUROPE: EINECS (European Inventory of Existing Chemical Substances)</b> All components are listed on AICS, or are exempt.

### 16. OTHER INFORMATION

<b>Additional information:</b>	<b>WORKPLACE CONTROLS AND PRACTICES:</b> Unless a less toxic chemical can be substituted for a hazardous substance, <b>ENGINEERING CONTROLS</b> are the most effective way of reducing exposure. The best protection is to enclose operations and/or provide local exhaust ventilation at the site of chemical release. Isolating operations can also reduce exposure. Using respirators or protective equipment is less effective than the controls mentioned above, but is sometimes necessary.
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#### EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ):

Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: Strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as 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: 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.

#### Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS #	Chemical Abstract Service number – used to uniquely identify chemical compounds
CNS	Central Nervous System
EC No.	European Community Number
EMS	Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)
GHS	Globally Harmonised System
GTEPG	Group Text Emergency Procedure Guide
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)
SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
SWA	Safe Work Australia
TLV	Threshold Limit Value
TWA	Time Weighted Average

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[ End of SDS ]