

MUSTY2009 Loose Sorbent
Safety Data Sheet
October 2025
NON-HAZARDOUS



Section 1 – Identification:

- Commercial Product Name: MUSTY2009
- Supplier: Recoverit International Pty Ltd, 19/3-13 Bundarra Avenue, Wahroonga, NSW, 2076, AUSTRALIA, +61473486459
- Recommended use: Reusable sorbent for hydrocarbon clean up on water and land.

Section 2 – Hazard(s) identification

- Non-toxic to humans, wildlife, and the environment, in general.
- Main potential health risks are acute dust inhalation, acute product ingestion, and acute and chronic eye or skin contact for people with sensitivity.
 - Inhalation - This may produce discomfort in the respiratory system.
 - Eye or skin contact - This may produce discomfort to the skin.
 - Ingestion - The product can expand if consumed and may cause constipation.
- **If an exposed person shows any signs of distress or excessive symptoms due to the above, please seek urgent first aid and/or medical attention.** (see Section 4)
- Caution: the product may be delivered new under low compression (like a bedroom pillow). Care should be taken to ensure sufficient space is available for it to expand naturally, when opened.
- Hazardous substance classification and dangerous goods class:
 - Non-Hazardous material according to NOHSC criteria, GHS criteria, and ADG Code.

Section 3 – Composition and information on ingredients

- Major ingredients are plant-sourced natural polymers, combined into an elastomeric compound under pressure. Elemental components include Carbon, Hydrogen, Oxygen and Silicon.

Section 4 – First aid measures

- These first aid measures are based on overexposure to the product or its dust.
 - Inhalation - may cause causing choking or breathing difficulties. Seek urgent medical assistance and begin first aid.
 - Eye contact - may cause eye irritation or scratches to the eye, if rubbed. Immediately and gently flush the contaminated eye(s) with lukewarm freshwater or a neutral saline solution for at least 5-15 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If eye irritation persists, seek urgent medical assistance.
 - Skin contact - Wash the skin area with soap and water. If an irritation occurs and/or persists, or an allergic reaction occurs, seek urgent medical attention.
 - Ingestion - voluntary ingestion of significant quantities would be very unpleasant, so unlikely. But should a person ingest some product, treat for constipation, and seek medical assistance if large quantities are consumed.

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Section 5 – Firefighting measures

• Hazardous characteristics:

- Musty2009 adsorbent material is NOT considered flammable, except under extreme temperatures within a fire caused and fueled by other flammable material.
- May produce toxic fumes, for example, carbon monoxide, if burning.
- Flashpoint - Not Applicable
- Auto ignition temperature - Unknown
- Special Protective Equipment - Wear full protective equipment with self-contained breathing apparatus.

Extinguishing media:

- Use extinguishing media suitable and available for surrounding area.
- There is no restriction on the type of extinguisher which may be used.

Section 6 – Accidental release measures

- Emergency measures: The product is low density, inert and environmentally-friendly, in a dry, rice-sized granular form.
- Land spill - If any product is spilled on the ground, it can be easily and safely collected and returned to its containment. Prevent any accidental discharge to drains with a suitable cover or bund.
- Water spill - If any product is spilled into water, contain it, collect it with the sieves for response purposes, and dry it out of the sun and wind, then return to its original containment.
- Biodegradable/compostable - The product is biodegradable, with more than 60% being consumed in water within 28 days. It is also compostable.

Section 7– Handling and storage, and safe use

• Handling and storage:

- Compression - The product originally comes packaged under low compression. Take care when opening for the first time to allow space and time for the product to regain its bulk.
- Storage - The product should, where possible, be stored in its original solid and impermeable bags, buckets or drums, or similar, in a dry place out of the sun.
- Precautions - Keep the product away from acids, alkalis, liquid hydrocarbons and other substances that could affect the containers or the product quality.
- Reusability - the product is designed and manufactured to be a reusable material. After each application, it can be squeezed of its contaminant load and refreshed for a second (and more) uses.

• Safe use:

- MUSTY2009 is designed to be spread over spilled hydrocarbons, to prevent their spread, and to collect and remove them from the environment. On its own, it is generally inert, very low hazard, and non-toxic, as described in the sections above.

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Section 7– Handling and storage, and safe use (continued)

- Safe use - general hygiene requirements:
 - Eating, drinking and smoking in work areas are prohibited.
 - Wash hands after use.
 - Remove contaminated clothing and protective equipment before entering eating, washroom, or other non-work areas.
 - Use appropriate PPE for the circumstances (pre-oil or oil recovery) and context (in store or in the field) - see Section 8 below.
- Use with hydrocarbon cleaning:
 - However, once engaged with hydrocarbons, all the hazards associated with these apply. So, the following are good behaviour and hygiene standards for use of the product before and after it has been used with spilled hydrocarbons.

Section 8 – Exposure controls and personal protection

- **NON-HAZARDOUS Product**
 - Although the product is considered NON-HAZARDOUS, being inert, non-toxic, low flammability and environmentally-friendly, nonetheless human health hazards are possible. These relate to over-exposure to the product as outlined in Section 2 (Hazards) and Section 4 (First Aid) above.
 - Exposure pathways are: Inhalation (primarily of dust); Ingestion; and Skin and Eye Contamination.
 - There are no exposure limits for the product.
- Engineering Controls:
 - The product is designed to be handled both indoors and outside. Good ventilation is required for both locations to minimize dust exposure.
 - The product comes in original packaging under low compression, and so opening should be undertaken carefully and space and time should be allowed for the product to bulk up.
 - Have freshwater and first aid personnel and kits available when in use, before and after application to spilled oil.
- Personal Protective Equipment (PPE) for MUSTY2009 use:
 - Eye (glasses or goggles) protection is recommended, both to protect during opening the product, and when it is being moved or applied, as it may contain small particles and dust.
 - Mouth and nose dust masks are also recommended to minimize inhalation of dust or other small particles.
 - Skin protection is recommended, including lightweight work gloves, head gear (cap) and coveralls or complete arm and leg coverings. For the product alone, these can be cotton, Tyvek or similar.

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Section 8 – Exposure controls and personal protection (continued)

- PPE for use when MUSTY2009 has been deployed into a spilled oil context.
 - This is an entirely different context and set of hazards.
 - Follow all oil spill response hazard and safety protocols.
 - Full spill response PPE is required, reflecting the significantly greater toxicity and health threats of the oil through multiple exposure pathways, and its other hazards.

Section 9 – Physical and chemical properties

- Appearance and properties:
 - Granular, of small (2-5mm) solid particles
 - May have minor dust within the packaging.
 - Black and brown in colour.
 - Minor odour of plastics.
 - Density (specific gravity) of around 0.35 or 35%.
 - Neutral pH.
 - Auto ignition temperature is unknown.
 - Non-flammable.
 - Insoluble and immiscible in water.
 - Biodegradable in water (>60% in 28 days)
 - Compostable.

Section 10 – Stability and reactivity

- Stable and non-reactive product:
 - Effectiveness degrades if left in sunlight, or if contaminated with acids, alkalis or liquid hydrocarbons, other than as deployed for clean-up purposes.
 - Could release carbon monoxide and smoke/soot, if incinerated.

Section 11 – Toxicological information

- NON-TOXIC Product:
 - MUSTY2009 has predominantly minor potential human health risks as specified in Section 2 (Hazards) and Section 4 (First Aid) above, through various pathways due primarily to overexposure.
 - It can cause physical irritation of eyes, skin and respiratory tract.
 - Some people may be sensitive to the plant proteins, and so respond with more acute symptoms, such as allergic contact dermatitis.
 - Skin sensitivity testing is the best first action, followed by First Aid and medical assistance should it be necessary.
- Data not available for the following:
 - Carcinogenicity
 - Mutagenicity
 - Reproductive toxicity
 - Skin corrosion
 - Specific Target Organ Toxicity

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Section 11 – Toxicological information (continued)

- Collected Hydrocarbon Toxicity
 - As noted above, no account can be made for the various hydrocarbons this product will be used to collect, recover and remove from the environment. Operators should be fully aware of the hazards associated with these before beginning response operations.

Section 12 – Ecological information

- Ecotoxicity:
 - LD50 and LC50 - Not available.
 - Environmentally inert product.
- Biodegradation:
 - Meets AMSA OSCA requirements of greater than 60% degraded over 28 days in seawater inoculum.
 - Compostable as waste.
- Other harmful environmental effects
 - None known or reported.
 - Low density, so if uncollected, will float at the surface, subject to UV-enhanced biodegradation.
 - Designed to biodegrade in seawater, if uncollected and not harm to marine life.
 - No known bioaccumulative potential.
 - No known mobility in soil.

Section 13 – Disposal considerations

- Disposal methods
 - The product is designed to be used more than once, after being squeezed out of its contaminant load. This it is not a single use material.
 - It is also designed to be cleaned at the conclusion of the response, repacked and made available for future use.
 - Should it reach the end of effective life, it can composted, incinerated in a suitable facility, or returned to the manufacturer or representative for preprocessing into new product.

Section 14 – Transport information

- The product, being largely NON-HAZARDOUS, has no special transport information requirements, but will always travel with suitable documentation, including SDS.
 - UN No: Not regulated for Transport of Dangerous Goods
 - Packaging Flag: Flammable solids.
 - Packing Type: Bag, bucket or Drum
 - Packing: According to customer requirements, no special requirements.

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Section 15 – Regulatory information

- Meets Australian Maritime Safety Authority Oil Spill Control Agent requirements for use as a Loose Sorbents – Organic, for marine and shoreline oil spill (and other hydrocarbon) response, as per the AMSA OSCA Policy and Registry.
- Otherwise not available

Section 16 – Any other relevant information

- SDS completed with reference and respect to the instructions and guidance included in the Safe Work Australia, Preparation of safety data sheets for hazardous chemicals Code of Practice (June 2023).