





Chemical Compatibility Reference Chart

DANGEROUS GOODS COMPATIBILITY OVERVIEW






Akuna offers a diverse and specialised range of spill control products that align well with the chemical classes and compatibility concerns outlined in WHS regulations, EPA guidelines, and Australian Standards.

The primary aim of this chart is to:

- Simplifies decision-making: Customers can match their chemical risks to Akuna’s products.
- Ensures compliance: Aligns with WHS Regulation Part 7.1 and EPA containment protocols.
- Reduces risk: Prevents incompatible storage and improves spill response readiness.

| CLASS | DESCRIPTION | EXAMPLE SUBSTANCES | COMPATIBILITY CONCERNS | RECOMMENDED AKUNA PRODUCTS | REASON FOR RECOMMENDED PRODUCTS |
|--|---------------------------------------|--------------------|--|--|---|
| <div>Class 1</div> <div></div> | Explosives | Dynamite, TNT | Highly reactive, requires licensed handling | Not applicable | Explosives require specialised containment beyond Akuna’s scope |
| <div>Class 2</div> <div></div> | Gases | LPG, Oxygen | Pressurised, flammable or oxidizing | Spill Berms, Drain Seals | Used to contain leaks and protect drains from gas-related spills |
| <div>Class 3</div> <div></div> | Flammable Liquids | Petrol, Solvents | Must be isolated from oxidisers and ignition sources | Spill Pallets, Hardtops, Aluminium Floor Bunding, Absorbent Pads, Spill Kits | Containment and absorbents prevent ignition and environmental release |
| <div>Class 4</div> <div></div> | Flammable Solids / Dangerous When Wet | Sodium, Phosphorus | Reacts violently with water | Custom Spill Kits, Dry Absorbents, Hardtops | Dry containment prevents water contact and ignition |

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|--|-------------------------------|--|--|---|--|
| Class 5  | Oxidising Agents | Hydrogen Peroxide | Reacts with flammables and organics | Urethane Floor Bunding, Spill Berms, Chemical Spill Kits | Isolates reactive chemicals and provides neutralising absorbents |
| Class 6  | Toxic Substances | Pesticides, Cyanides | Requires sealed containment and PPE | Spill Decks, Drain Seals, Absorbent Pillows, Ultra-Filter-Tex | Minimises exposure and filters hazardous runoff |
| Class 7  | Radioactive Materials | Uranium, Medical Isotopes | Requires shielding and licensed handling | Not applicable | Radioactive materials require specialised containment beyond Akuna's scope |
| Class 8  | Corrosives | Acids, Alkalis | Incompatible with flammables and oxidisers | Flexible Floor Bunding, Corrosion-Resistant Spill Kits, Absorbent Booms | Resistant materials prevent corrosion and contain spills |
| Class 9  | Miscellaneous Dangerous Goods | Lithium Batteries, Environmentally Hazardous Liquids | Varied risks including fire, toxicity | Spill Kits, Spill Pallets, Ultra-Filter-Tex | Versatile containment and filtration for mixed hazards |

Best Practices

- Always consult the Safety Data Sheet (SDS) for specific compatibility.
- Maintain 3-metre separation or physical barriers between incompatible chemicals.
- Label containers with GHS pictograms and hazard statements.