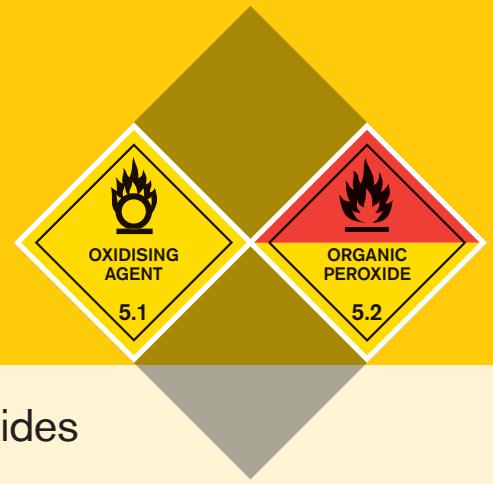




# Dangerous Goods





## Class 5: Oxidising substances and organic peroxides

### Risks



### Which cargoes fall under this Class?

Label	Class 5 division	Examples
 5.1	<b>Class 5.1</b> Oxidising substances – not combustible but may emit oxygen and cause or contribute to combustion of nearby cargoes and materials.	Hydrogen peroxide, potassium chlorate, ammonium nitrate based fertilisers, some pool cleaning chemicals.
 5.2	<b>Class 5.2</b> Organic peroxides – generate their own heat (polymerise), are thermally unstable and can be highly reactive.	Dibenzoyl peroxide, tert-butyl hydroperoxide.

Some Class 5.2 products may have a self accelerating decomposition temperature (SADT). These products may require temperature controlled transport such as insulated or refrigerated vehicles.

The table here highlights key takeaways for Class 5 cargoes.

Packing	
DO...	DON'T...
<ul style="list-style-type: none"> <li>Use only approved packaging for Class 5 cargoes</li> </ul>	<ul style="list-style-type: none"> <li>Use damaged packaging or containers</li> <li>Repackage Class 5 cargoes without specialist advice</li> </ul>
Storing	
DO...	DON'T...
<ul style="list-style-type: none"> <li>Store in well-ventilated and, where required, temperature-controlled storage facilities</li> <li>Store with labels forward, heavy cargo at bottom, and correct orientation (arrows up)</li> <li>Inspect stored cargoes regularly to ensure condition remains stable and safe</li> <li>Alert the dangerous goods competent person immediately if any problems</li> <li>Ensure all employees are trained in emergency response procedures</li> </ul>	<ul style="list-style-type: none"> <li>Store near to stairways and emergency exits</li> <li>Store near to sources of heat, such as a radiator</li> <li>Store near to sources of ignition, such as electrical equipment</li> <li>Store near other cargoes that may react with it, especially Class 1 explosives, Class 3 flammable liquids and Class 8 corrosives</li> <li>Store old or uncollected cargoes, which can become more unstable over time</li> </ul>
Transporting	
DO...	DON'T...
<ul style="list-style-type: none"> <li>Ensure all relevant transport risk assessments are up to date</li> <li>Ensure all staff involved in transport have the relevant dangerous goods awareness training</li> <li>Contact the DG competent person if you have any questions or queries about transport</li> <li>Pack cargoes securely to avoid movement during transport</li> <li>Familiarise yourself with and adhere to the relevant chapters of the CTU Code</li> </ul>	<ul style="list-style-type: none"> <li>Allow any ignition sources near cargoes during transport</li> <li>Mix Class 5 cargoes with any other transported cargoes that may react with them</li> <li>Transport large quantities of Class 5.1 cargoes if classed as 'high consequence' without a security plan in place</li> <li>Assume segregation requirements for all transport modes are the same</li> </ul>
Remember	
ALWAYS...	NEVER...
<ul style="list-style-type: none"> <li>Follow the manufacturer's instructions</li> <li>Communicate clearly with the entire supply chain</li> <li>Maintain a documented emergency response plan that is regularly tested and, ideally, developed in collaboration with the cargo manufacturer</li> </ul>	<ul style="list-style-type: none"> <li>Expose Class 5 cargoes to temperature deviations</li> <li>Throw, drop, roll, slide or drag Class 5 cargoes at any point in the supply chain</li> <li>Ignore abandoned cargo – it must be safely removed and disposed of</li> </ul>