

Dangerous Goods



Class 4: Flammable substances

Risks















Which cargoes fall under this Class?

Label	Class 4 division	Examples
FLAMABLE SOLID 4.1	Class 4.1 Flammable solids, self-reactive and polymerising substances and solid desensitised explosives.	Aluminium power used for making paint and varnish, matches, sulphur, fire lighters, activated charcoal.
SPONTANEOUSLY COMBUSTIBLE 4	Class 4.2 Substances liable to combust spontaneously.	Phosphorus, sodium sulphide, fishmeal, fishscrap, carbon (various), cotton waste (oily).
DANGEROUS WHEN WET 4 4.3	Class 4.3 Substances which, in contact with water, emit flammable gases.	Calcium carbide, sodium, potassium.

The table here highlights key takeaways for Class 4 cargoes.

Packing

00...



DON'T...

- Use only approved packaging for Class 4 cargoes
- Ensure appropriate packaging for each division (air tight for 4.2 and water tight for 4.3)
- Use damaged packaging
- Repackage Class 4 cargoes without specialist advice

Storing

ПО...



DON'T...

- Store in well-ventilated and, where required, temperature-controlled storage facilities (self reactive and polymerising)
- Store with labels forward, heavy cargoes at bottom, and correct orientation (arrows up)
- Inspect stored cargoes regularly to ensure condition remains stable and safe
- Alert the dangerous goods competent person immediately if any problems
- Ensure all employees involved in storing are trained in emergency response procedures

- Store near to stairways and emergency exits
- Store near to sources of heat, such as a radiator
- Store near to sources of ignition, such as electrical equipment and (for Class 4.3) water
- Store near other cargoes that are designated incompatible
- Store old or uncollected cargoes, which can become more unstable over time

Transporting

00...



DON'T...

- Ensure all relevant transport risks assessments are up to date
- Ensure all staff involved in transport have the relevant dangerous goods awareness training
- Contact the DG competent person if you have any questions or queries about transport
- Pack cargoes securely to avoid movement during transport
- Familiarise yourself with and adhere to the relevant chapters of the CTU Code
- Where required use temperature controlled transport units (self reactive and polymerising)

- Allow any ignition sources near cargoes during transport
- Transport Class 4.1 cargoes if classed as 'high consequence' without a security plan in place

Remember

ALWAYS...



NEVER...

- Communicate clearly with the entire supply chain
- Follow the manufacturer's instructions
- Maintain a documented emergency response plan that is regularly tested and, ideally, developed in collaboration with the cargo manufacturer
- Expose flammable solid cargoes to extreme temperatures
- Throw, drop, roll, slide or drag Class 4 cargoes at any point in the supply chain
- Ignore abandoned cargo it must be safely removed and disposed of

TT CLUB
IS MANAGED
BY **THOMAS**MILLER



For more information

Please contact us at **riskmanagement@ttclub.com** or visit us at **ttclub.com**