



DANGEROUS GOODS PANEL (DGP)

TWENTIETH MEETING

IEC MICRO FUEL CELL SAFETY SPECIFICATION SUPPLEMENTAL INFORMATION REGARDING THE EXCEPTION FOR FUEL CELL CARTRIDGES AND SYSTEMS CARRIED BY PASSENGERS AND CREW

(Presented by U.S. Fuel Cell Council)

Additional information regarding the current shipping provisions of Borohydride compounds as cargo:

1. Liquid type Borohydride Solutions

Three options for shipping liquid borohydride solutions exist:

Option 1:

UN3320 – Sodium Borohydride and Sodium Hydroxide Solution.
PG II – Cargo in a Passenger Aircraft – 0.5L Limited Quantity according to PI 809.
Cargo in a Cargo Aircraft – 30L Quantity according to PI 803.

Option 2:

UN 1760 – Corrosive liquid, n.o.s.
PG II – Cargo in a Passenger Aircraft – 0.5L Limited Quantity according to PI 808.
Cargo in a Cargo Aircraft – 30L Quantity according to PI 812.

Option 3:

UN 3266 – Corrosive liquid, basic, in organic, n.o.s.
PG II – Cargo in a Passenger Aircraft – 0.5L Limited Quantity according to PI 808.
Cargo in a Cargo Aircraft – 30L Quantity according to PI 812.

2. Solid type Borohydride Compounds

Two Basic Types of solid type Borohydride compounds exist

2a. Pure Borohydride Compounds**Option 1:**

UN1426 – Sodium Borohydride.
PG I – Cargo in a Passenger Aircraft – Forbidden.
Cargo in a Cargo Aircraft – 15 kg Quantity according to PI 412.

Option 2:

UN1426 – Potassium Borohydride.
PG I – Cargo in a Passenger Aircraft – Forbidden.
Cargo in a Cargo Aircraft – 15 kg Quantity according to PI 412.

2b. Class 8 Borohydride Compound Formulations**Option 1:**

UN3262 – Corrosive Solid, Basic, Inorganic, n.o.s.
PG II – Cargo in a Passenger Aircraft – 5 kg quantity according to PI 814.
Cargo in a Cargo Aircraft – 50 kg Quantity according to PI 816.

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