Materials Group
Label and Packaging Materials

North America

Chemical Drum Labeling

AVERY DENNISON

Tough performance in unforgiving conditions

Our purpose-engineered solutions deliver better adhesion on challenging substrates while standing up to both harsh weather and strict regulations.

Materials designed to go where drums go

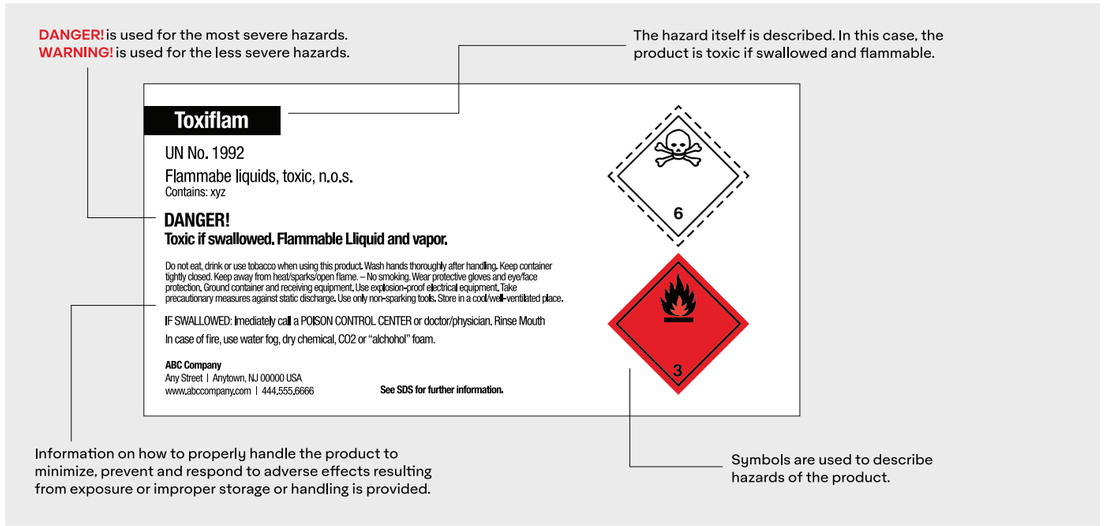
Chemical drums endure harsh environments on their global journeys, from heat to freezing cold to rain, snow, and saltwater. We've engineered materials that can take the same punishment. Our product portfolio is built on a foundation of proprietary adhesives. These offer high repositionability, fast wet-out, and outstanding durability with long exposure to the harsh elements of marine environments. They deliver consistent printability and readability, whether they're printed with flexographic, laser, or waterbased inkjet printers. They're easy to apply by hand and comply with GHS regulations as well as with BS5609 Section 2 (marine immersion) standards —we even provide BS5609 Section 3 certification at no charge. In short, we've developed purpose-built, certified materials ready for the real-world conditions in which chemical producers operate every day.

Key features

- High durability in harsh climates
- Dimensional stability for easy manual application of large labels
- Excellent printability with flexo, thermal transfer, water-based inkjet, and laser printing
- GHS and BS 5609 compliant (BS 5609 Section 3 certification available at no charge)
- Materials can be used on a variety of surfaces, including painted steel, polyethylene drums, totes and super sacks.
- Consistent adhesion to a range of drum surfaces
- Short term repositionability
- Available with S4650 adhesive for improved adhesion to both smooth and textured plastic substrates and better cold temperature application performance.

GHS and IMDG Label Requirements

Oil spillage and chemical leakage from dumped freight are still current and heavily debated topics when discussing transportation of chemicals. The implementation of strict transport regulations helps safeguard health, safety and the environment. Such international regulations ensure that clear standards and requirements apply to the label and label material. To comply with regulations, it is important that the hazard is visible at all times and easily recognizable by the trained professional handling the materials in the chemical container. This applies even when the chemical drum or container has been recovered from the sea.



Global Harmonized System (GHS)

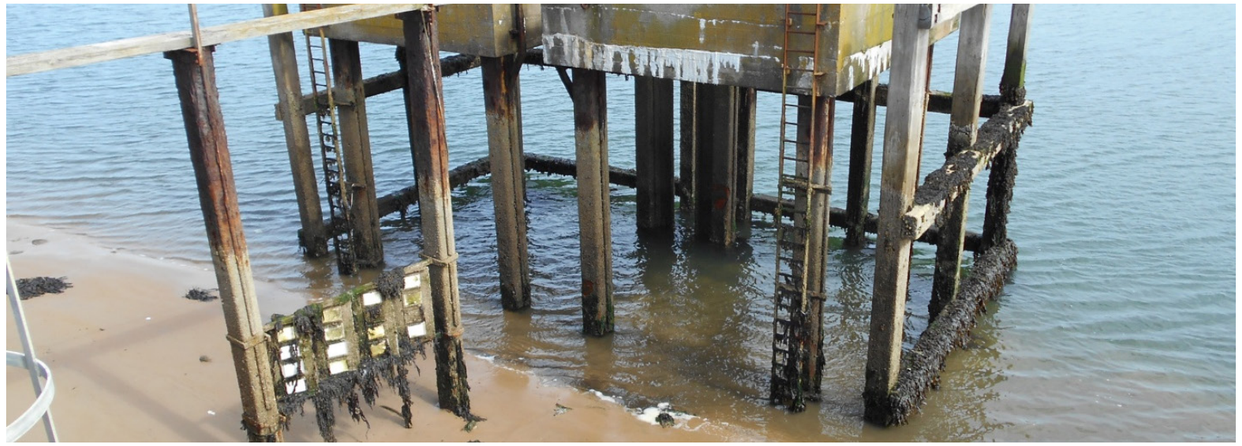
GHS is a general directive for the classification of chemicals which includes packaging and labeling requirements. A correct GHS label must have the following aspects:

- Hazard pictograms (red framed, diamond-shaped)
- Signal words – either DANGER or WARNING
- Hazard statements (H-statements)
- Precautionary statements (P-statements)
- Product identifier (name, CAS#, etc.)
- Supplier identification and contact information

GHS standards require certain products to meet IMDG certification, part of which mandates that labels comply with BS 5609 specifications.

British Standard 5609 (BS 5609) certification

The International Maritime Dangerous Goods (IMDG) Code is the guide to all aspects of handling dangerous substances and marine pollutants in sea transport. With a focus on labeling, IMDG classifies dangerous substances by their properties to determine how they should be handled, packaged, loaded, transported, unloaded and stored. If a chemical container washes onto shore, its BS 5609-certified label will remain intact to communicate critical information regarding how to handle the contents.



BS 5609 testing

BS 5609 establishes specifications and test methods to determine whether pressure-sensitive, adhesive coated labels will perform under marine conditions. The four-part standard includes two technical sections.

Section 2 covers the base material of the pressure-sensitive, adhesivecoated label. The label stock material is placed in the English Channel for three months, testing its dimensional stability, adhesion from tide action, resistance to weathering from light and salt spray, thermal cycling and colorfastness.

Section 3 covers the final printed pressure-sensitive, adhesive-coated labels, including the printing inks, ribbons and systems applied to materials that were certified in Section 2. Printed labels are tested for print key effectiveness, legibility, print permanence, resistance to abrasion and weathering from light, salt spray and sand.

Spec#	Product Description	Print Method	BS 5609 Section 3	Printer	Ink System
C1688	3.4 Mil Lasercode DL TCL/ S4650/79#CCK	Laser	X	Lexmark CS735, CS820, and C792e	
B4101	2 Mil White Laser PET/S4650/66#PK	Laser	X	Lexmark C792e & C6160, Primera CX1200, NeuraLabel 600e and Sirius, Ricoh SP830, Ricoh 840, Japan Electronics Ind. Inc JP 600-L, Japan Electronics Ind. Inc JP 621-LC	Armor AXR1/AXR600R: Zebra, Armor AXR7+/AXR600R Red: Microplex, Armor AXR 8 Black+AXR600R Red: Datamax, Zebra, limak SP330 Black+DC300 Ruby Red: Zebra, ITW B128 Black+B120 Red: Cab, Zebra, ITW B324 Black+B324 Red Resin: Cab, Datamax, Zebra ITW CP TR5940 Black+TR5440 Red: Datamax, Zebra, IMP ribbons Z300R/Z302, Z300R Z203 and Z300R/Z300, Flint Force, Environmental Ink DR III FR, Environmental Ink Films III Ink, PolyTech XR ink
B8560	3.7 Mil Smudgeproof Kimdura®/ S4650/50#SCK	Thermal Transfer, UV Inkjet, Flexo (Shipping Labels)	X	Durst Tau330 (black only), Domino n610i, Jetrion 4000 Series for 4900 Press, Jetrion 4950, Truepress Jet L350UV SAI-S, Truepress Jet L350UV SAI-E, Dantex PicoJet	Armor AXR1/AXR600R: Zebra Armor AXR 8 Black+AXR600R Red: Datamax, Zebra Astromed RY Black+RAE Red: Zebra DNP R300 Black+R510 Red: Datamax, Zebra limak SP330 Black+DC300 Ruby Red: Data, Zebra limak SP575 Black+DC300 Ruby Red: Data, Zebra ITW B128 Black+B120 Red: Zebra ITW B324 Black+B324 Red Resin: Datamax, Zebra ITW CP TR5940 Black+CP TR5440 Red: Datamax, Zebra IMP ribbons Z300R/Z302, Z300R/Z203 and Z300R/Z300, Flint Force, Environmental Ink DR III FR, Environmental Ink Films III Ink, Wikoff PolyTech XR ink, Actega Optifilm< Versafilm + Flint UVF 02052 Varnish
72197	Fasson® 4 Mil Transcode®/ S475/50#SCK	Thermal Transfer, UV Inkjet, Flexo (Shipping Labels)	X	Durst Tau330 (black only), Domino n610i, Jetrion 4000 Series for 4900 Press, Jetrion 4950, Mark Andy Digital One, Screen TruePressJet L350+, Truepress Jet L350UV SAI-S, Truepress Jet L350UV SAI-E	
C1283	Fasson® 4.5 Mil WBIJ Kimdura®/ S4650/50#SCK	Inkjet	X	Afinia L501, Primera LX910, TMC3400, TMC3500, NeuraLabel 300x, Epson C831, Epson C6000, Epson C6500	
B8559	Fasson® 3.5 Mil Matte White SYN WBIJ/S4650/50#SCK	Inkjet	X	Afinia L501, Primera LX910, TMC3400, TMC3500, Epson C831, Epson C6000, Epson C6500 Neuralabel Callisto and Sprint	

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