

Product stewardship & promoting methanol safety

Product stewardship refers to a proactive approach to managing the health, safety, and environmental impacts of a product throughout its entire lifecycle—from design, manufacturing, distribution, and use, to end-of-life disposal or recycling.

Product stewardship involves a company's commitment to minimize risks associated with its products by:

- Ensuring products are developed, handled, used, and disposed of safely.
- Clearly communicating risks and safety measures to all stakeholders, including employees, customers, communities, and regulators.
- Continuously improving products and processes to minimize environmental impact, protect public health, and ensure worker safety.

WHY IS PRODUCT STEWARDSHIP IMPORTANT TO US?

When it comes to product stewardship, the Responsible Care Ethic & Principles for Sustainability compel us to seek out, understand, and address public concerns. We recognize the public's right to clearly understand the hazards, benefits, and risks associated with our products. We also emphasize life cycle stewardship by collaborating closely with partners along our value chain. By working proactively with these partners, we ensure our commitment to responsibility extends throughout every stage of our products' lifecycle.



1

Safety and Environmental Protection

It helps us proactively prevent adverse impacts on health, safety, and the environment, demonstrating our commitment to sustainability and corporate responsibility.

2

Reputation and Trust

Practicing product stewardship builds trust with our customers, communities, regulators, and other stakeholders. It shows that we are dedicated to transparency and responsibility, thus enhancing our reputation and relationships.

3

Regulatory Compliance and Risk Management

By staying ahead of regulatory requirements and understanding potential hazards associated with our products, we reduce risks, avoid liabilities, and ensure compliance, thereby protecting the company's long-term viability.

4

Competitive Advantage and Market Opportunities

Demonstrating responsible product management can differentiate us positively in the market, creating competitive advantage, fostering innovation, and increasing market share as consumers increasingly value sustainability and ethical responsibility.



Through our product safety practices, we provide information about how to manage the risks of methanol and promote its proper use and safe handling. We do this through:

PRODUCT STEWARDSHIP AT OUR SITES AND TERMINALS

Promoting Safe Handling by Workers

At our manufacturing sites, methanol is stored in tanks and transported via pipelines into marine vessels or loaded into railcars or trucks.

- Workers handling methanol undergo specialized training, wear personal protective equipment (PPE), and participate in industrial hygiene monitoring.
- Product handlers (truck/rail loading, distillation operators) follow the same safety protocols.
- Safety Data Sheets (SDSs) are provided in 25 languages, in GHS (global) and REACH (EU/UK) formats, covering hazards, PPE requirements, and emergency response guidance.

Assessing Terminals for Safety

As part of our marketing and logistics service, we load and distribute methanol by vessel at terminals around the world.

- Methanol is distributed at approximately 120 terminals located at manufacturing sites, leased in public terminals, and third-party/customer locations.
- Methanex assesses safety at contract terminals using the Chemical Distribution Institute's Terminal inspection (CDI-T) on a three-year cycle.
- Internal audits for terminals used at our manufacturing sites are conducted every three years.

PROMOTING SAFE PRACTICES FOR MARINE TRANSPORTATION

85% of Methanex's methanol is transported by its subsidiary Waterfront Shipping's (WFS) vessels. To achieve reliable transport and safe operations, WFS works closely with ship owners and ship management companies, which are responsible for the technical operation of Waterfront Shipping vessels.

Ship Safety Assessments

- WFS collaborates with ship owners and managers for crew operations, vessel maintenance, and regulatory compliance.
- All 33 Waterfront Shipping vessels underwent CDI-Marine inspections in 2024.
- Ship Inspection Report Programme (SIRE) database is used to ensure vessel safety for commercial operation.

Training

- Ship crews receive biannual training on handling methanol and nitrogen safety.
- Training includes videos, Q&A sessions, and tests. Vessel managers review individual scores for targeted support.

Safety Visits

- Annual safety visits assess safety culture and program implementation on WFS vessels.
- Fleet safety ratings are used to drive continuous improvements.
- Select spot and Contract of Affreightment (COA) vessels undergo safety visits.
- Office visits every two years align safety information between ships and ship owners/technical managers.



PROMOTING SAFE PRACTICES FOR RAIL TRANSPORTATION

In North America, approximately 40 per cent of our customers are supplied with methanol by rail, with Methanex operating over 1,200 leased railcars. Furthermore,

- Railcars undergo preventative maintenance every 5 years, more stringent than the 10-year regulatory inspection requirement.
- Methanex was an early adopter in upgrading our fleet to the new safer design requirements, starting several years ahead of U.S. and Canada regulatory deadlines requiring all tank railcars to transition to upgraded safety designs (thicker shell, thermal protection, improved valves).

PROMOTING SAFE PRACTICES FOR TRUCKS AND BARGES

In addition to vessels and railcars, our regional offices also contract barges or trucks and conduct assessments appropriate for their jurisdiction. These assessments, which are conducted on a three- to five-year cycle, include criteria to evaluate quality, safety, security, and environmental practices. We also share best practices with our other regional offices regarding trucking supplier selection, product stewardship, route risk assessments, unloading site assessments, emergency response, and fuel trends.

DISTRIBUTORS AND CUSTOMERS

We use distributors globally to transport and sell our methanol to the end consumer. We regularly assess the performance of our distributors, as outlined in our Distributor Responsible Care Program. Where areas for improvements are identified, our marketing and logistics regions use a roadmap for engagement to support distributors as they improve their performance.

Our regional teams deliver timely, high quality compliance documents to our customers. We also proactively share a Methanol Safe Handling brochure with customers and distributors. This brochure includes safe handling information aligned with the Global Harmonized System (GHS) and is available in multiple languages.

Find out more:

www.methanex.com/about-methanol/safe-handling/

COMMUNICATING SAFETY, HAZARD AND RISK INFORMATION THROUGH THE VALUE CHAIN

We use our decades of experience to help educate value chain stakeholders on topics such as methanol safe handling and loading procedures, barge inspections, emergency response, fire safety, and road safety. Here are some of the ways we engaged in 2024 through methanol handling safety seminars, webinars, and workshops to stakeholders throughout our value chain, including partners, customers, terminals, surveyors, distributors, carriers, and emergency service providers, as well as local and/or regional authorities:

