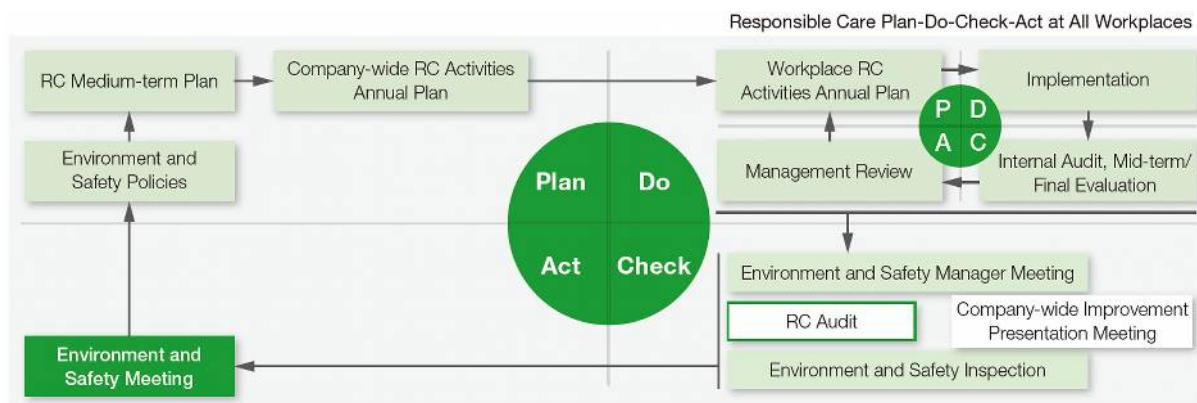


Responsible Care (RC)

Responsible Care Plan-Do-Check-Act (PDCA) | Responsible Care Promotion System
Safety Assessment Process and Provision of Product Information
Responsible Care Medium-term Plan 2023

The Plan-Do-Check-Act (PDCA) Cycle in Responsible Care

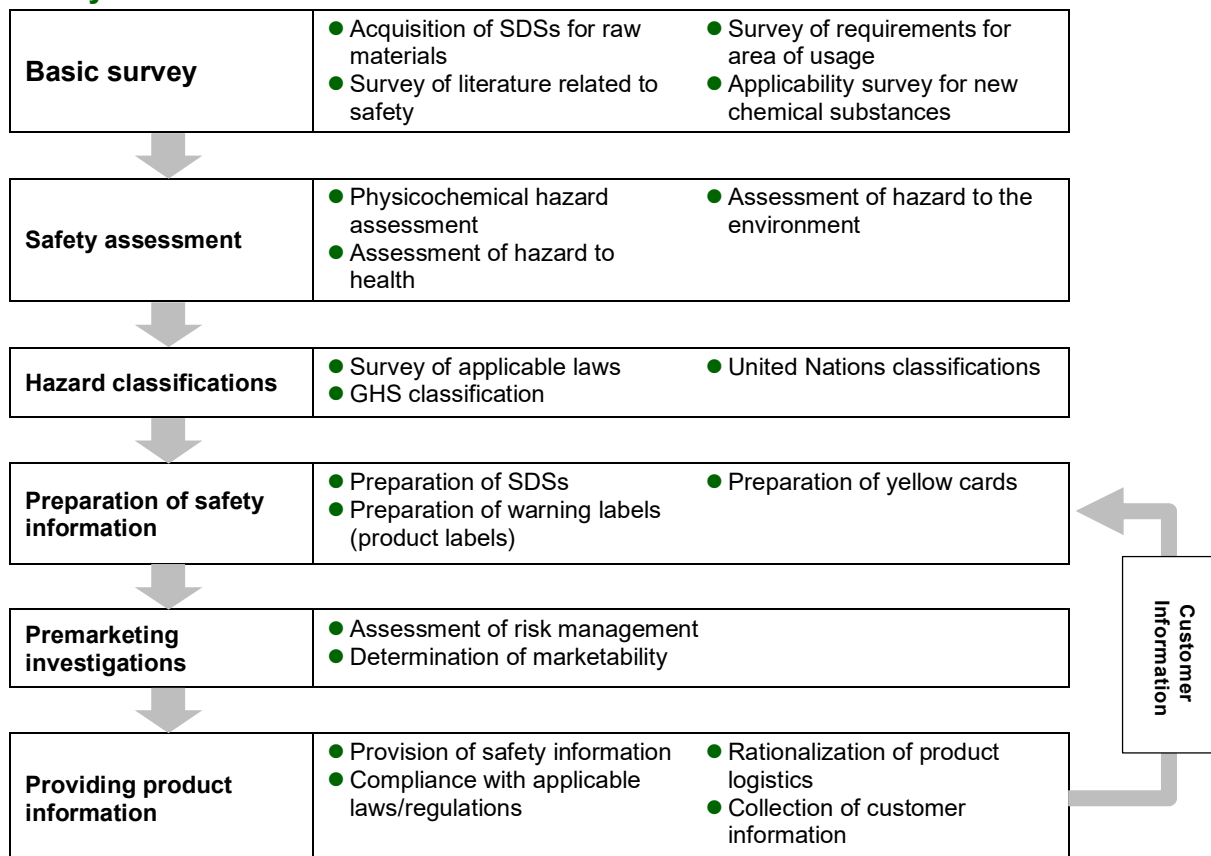


Responsible Care Promotion System

At environment and safety meetings chaired by MGC's president and attended by directors, Audit & Supervisory Board members, business sector heads, plant/laboratory heads and the general manager of the Production Technology Division, the attendees review and report on environment and safety policies, the Responsible Care Medium-term Plan and annual plans, the status of implementation, and important matters related to Responsible Care, the plans' implementation status and audit findings.

* Responsible Care : Occupational Safety and Health, Process Safety, Disaster Prevention, Environmental Protection, Chemical/Product Safety and Distribution Safety

Safety Assessment Process and Provision of Product Information



Responsible Care Medium-term Plan 2023 (2021-2023)

Category of Activities	Medium-term Plan (◆: Grow UP 2023 KPIs; Other : RC targets)
Occupational Health and Safety	<p>○ Aim to eliminate occupational injuries at the work sites of MGC and its partner companies. Render direct and indirect determinants of occupational safety visible through various assessment methods and lay groundwork for improvement. [Quantitative occupational health and safety targets through 2023]</p> <p>◆ <u>Zero serious occupational injuries</u>*¹ MGC parent company: zero injuries, including both lost-time and non-lost-time injuries Partner companies: frequency rate ≤ 0.3; severity rate ≤ 0.003</p>
Process Safety and Disaster Prevention	<p>○ Aim to eliminate accidents in the workplace. Render direct and indirect determinants of process safety and disaster prevention visible through various assessment methods and lay groundwork for improvement. [Quantitative process safety and disaster prevention target through 2023]</p> <p>◆ <u>Zero serious accidents</u>*² Annual ICCA score of 0; applies to both MGC parent company and partner companies</p>
Environmental Protection	<p>○ Aim to protect the natural environment and contribute positively to communities through business activities. Improve public reputation as a result. [Quantitative Environmental Protection Targets through Fiscal 2023]</p> <p>(1) ◆ <u>Reduce GHG emissions 28% relative to fiscal 2013*</u> ◆ <u>Reduce GHG emission intensity 19.9% relative to fiscal 2013*</u></p> <p>① Continuously reduce emissions by 4,000t of CO₂e annually ② Discontinue use of heavy oil in MGC-owned power plants, boilers, etc. (Mizushima Plant, Yokkaichi Plant) ③ Reduce GHG emission intensity of purchased power (0.45; MF) ◆ ④ <u>Increase renewable share of purchased power to 10% (at all plants)</u></p> <p>(2) <u>Zero waste</u> ◆ <u>*Zero waste emission rate</u>*³ ≤ 0.3%</p> <p>(3) Chemical substances subject to the Pollutant Release and Transfer Register (PRTR) system: Reduce by 10% compared with the fiscal 2020 level</p> <p>(4) Water resource conservation *Water reuse rate ≥ 95% Water risk assessment (domestic manufacturing sites)</p> <p>(5) Biodiversity Conservation *Donate a cumulative 10 Bookcases of Biodiversity *Establish one biodiversity observation site</p>
Chemical and Product Safety	<p>○ Explicitly disclose chemicals/products' properties and handling methods and protect all handlers' health and safety as well as the environment. [Quantitative chemical/product safety targets through 2023*]</p> <p>(1) Conduct multi-stage safety assessments during product development (ongoing) *Pre-/post-marketing investigations of new products: 100% (% of products)</p> <p>(2) Assess/manage risks of products handled (ongoing) *Product safety education: 100% (% of MGC Group Environment and Safety Council-member companies)</p> <p>(3) Reliably comply with application/registration requirements pursuant to each country's chemical substance control laws *Substance registration in compliance with countries' chemical substance controls: 100% (% of products)</p> <p>(4) Operate and roll out automated SDS preparation system *Preparation and disclosure of safety information (SDS): 100% (% of products)</p>
Safe Transport and Storage of Chemicals	<p>○ Aim to eliminate accidents and problems when transporting and storing chemicals by:</p> <p>(1) Continually analyzing problems that occur in the transport and storage of chemicals, and distributing results across to all relevant workplaces (2) Sharing information on the safe transport and storage of chemicals with the logistics departments of each group company (3) Analyzing handling of shipments at their final destinations and making improvements when necessary</p>
Communication with Stakeholders	<p>○ Aim to improve reputation among and foster trust from stakeholders.</p>
RC Initiatives and Management	<p>○ Aim to carry out Group-wide environmental safety activities. Strengthen intra-Group communication and promote management that places priority on security, process safety, disaster prevention and environmental management.</p> <p>○ Continuously make improvements to RC management systems</p>

*1 Accidents resulting in lost work days eligible for disability compensation, including death and permanent disability, or potential disability, with four or more lost work days

*2 Accidents that threaten third parties, including those resulting in environmental pollution involving the community or that cause damage to local residents, and other accidents involving serious damage

*3 (Amount of final disposal) ÷ (total amount of industrial waste generated) × 100