

# Securing Safety and Disaster Prevention



## Initiatives for Occupational Safety

### ● Continuous Improvements through the Occupational Safety Management System

Securing the safety and health of our employees is at the foundation of our business activities. In recognition of this, we set forth the Company's policy in our Environmental Protection and Safety and Health Management Regulations. In addition, in our Declaration of Action by Board Members and Employees we state that taking action to secure safety and health in the workplace will be our utmost priority, and we are endeavoring to eliminate accidents and secure a comfortable work environment. Together with putting into practice initiatives that include "5S" activities, pointing and calling, "KYT" accident prediction training, and risk assessments, we also make

information on industrial accidents known throughout the Company, and implement activities that function to prevent recurrence.

We established our Safety Education Center at the Yokkaichi Branch's Kasumi Plant in February 2017, and have commenced new initiatives to instruct employees with regard to safety.

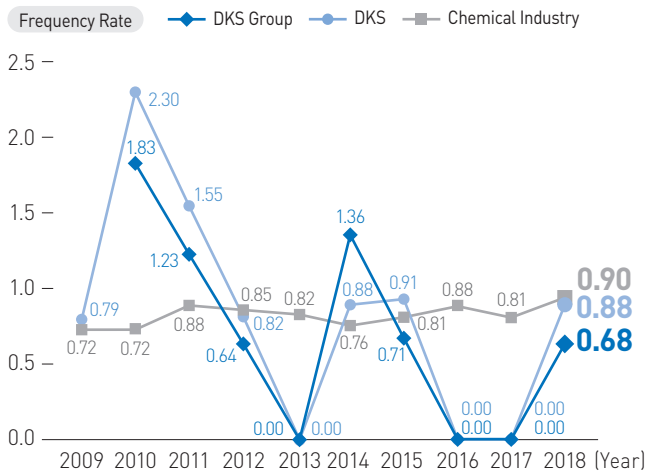
In 2018, all employees underwent regular health checkups, and we also conducted mental health (self-care) initiatives through e-learning, and other efforts. We continue to set our sights on achieving the goals of "zero disasters" and to "make a comfortable workplace."

### ● Industrial Accident Frequency Rate and Industrial Accident Severity Rate (January to December 2018)

In 2018 there were two accidents in the DKS Group that resulted in lost worktime, and as a consequence, these increased the Industrial Accident Frequency Rate (lost worktime). We worked to conduct proper corrective

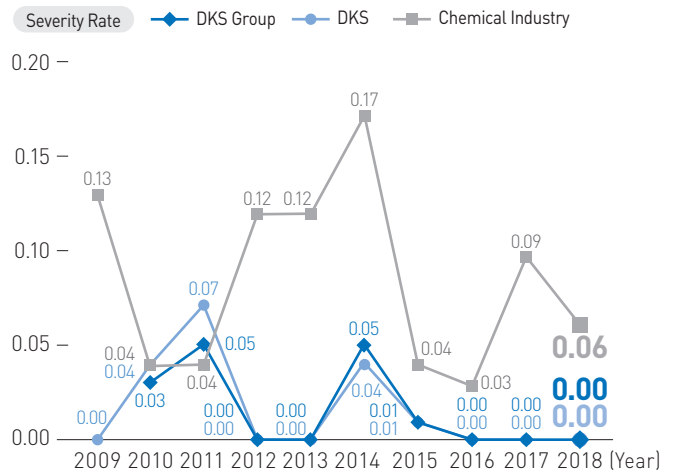
procedures, and also put in place thorough measures to prevent recurrence. Our aim for 2019 is for "zero occurrence of industrial accidents (lost worktime)," and we will further strengthen safety activities.

#### ● Changes in Industrial Accident Frequency Rate\*



\* Frequency Rate = (Number of persons absent from work due to occupational accidents)/(Total actual working hours) x 1,000,000  
This is a numerical value representing the degree of frequency of victim occurrence per 1 million hours.

#### ● Changes in Work-related Injury Severity Rate\*



\* Severity Rate = (Days of lost work)/(Total actual working hours) x 1,000  
This is a numerical value representing the degree of severity of an occupational accident per 1,000 working hours.

### ● Conducting Hands-on Safety Training

In February 2017 we established the Safety Education Center at the Yokkaichi Branch's Kasumi Plant with the goal of preventing industrial accidents and raising safety awareness so as to maintain safe and stable operations, which is the mission of a manufacturer. The Safety Education Center makes available seven discipline training booths to confirm whether or not control is as it should be, and also provides for the use of hands-on training equipment with the goal of boosting sensitivity to abnormalities and dangers. This training site also offers a mini-plant which serves as a venue to foster technicians so that they may gain a grasp of the basic principles of equipment and processes.

Training commenced in February 2017, and from fiscal 2018 we conducted training for new employees as well as for employees involved in R&D and production. We will continue to use this facility to convey the importance of safety knowledge and stable operations, and to make ongoing efforts to heighten the awareness of safety among each and every individual.



Hands-on safety training

## Initiatives for Logistics Safety

DKS entrusts external vendors with its logistics operations that involve product storage and transport. However, in adherence to the spirit of Responsible Care, our activities are guided by our stance that we will secure logistics safety and preserve the environment, as well as offer to customers guarantees of logistics quality and service delivery, among other principles. We work in close collaboration with our vendors to promote initiatives for logistics safety to realize these goals.

One particular aim we have is to eliminate accidents in logistics. To achieve this we hold regular committee meetings to share information, consult and educate on maintaining safe transport and traffic order, amendments to laws, delivery

operations' safety and environmental standards, shipping specifications, and other topics.

In addition, in the case an accident occurs during the transport of chemicals, so that drivers can take proper measures, we provide Yellow Cards\* (emergency contact cards when products are being delivered) that indicate the Emergency Response Guidebook (ERG) number and the UN number as well as Container Yellow Card indicating the same on the product labels.

\* Yellow Card: An emergency contact card used when products are being delivered. In preparation for the event that an accident occurs during the delivery of chemical substances, this emergency contact card indicates the measures that should be taken by the relevant people.

## Initiatives for Disaster Prevention

### ●Response in Emergency Situations (Conducting Disaster Prevention Drills)

As preparations for the case an emergency situation arises due to fire or explosion, earthquake, leakage, power outage or other event, we have constructed a framework for disaster prevention at branches, and repeat disaster prevention drills in accordance with fiscal year plans. We have also taken measures to prepare in the event of such accidents, and have developed a disaster prevention manual for emergencies based upon the incidents of large-scale

fires and explosions that have occurred at chemical plants in Japan in recent years. Disaster prevention drills are also performed with the cooperation, and in unison, with local fire departments and/or public fire brigades. We continue to work on disaster prevention activities that will prevent accidents and disasters unique to a chemical manufacturer so as to ensure that they do not occur in the first place.



Joint drills with public fire brigade  
(Yokkaichi Branch)



Joint drills with public fire brigade  
(Shiga Branch)



Joint drills with public fire brigade  
(Ohgata Branch)



Joint drills with fire department  
(Kyoto Head Office/Laboratory)

### ●Disaster Prevention Measure Investment

Fiscal 2018 investment into disaster prevention measures amounted to ¥509.7 million. Investments mainly went to measures to respond to explosions, fires and leakages, as well as measures to deal with aging equipment, and measures to improve work safety and working environments.