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Emergency Response and investigation for Road Incidents involving Dangerous Goods

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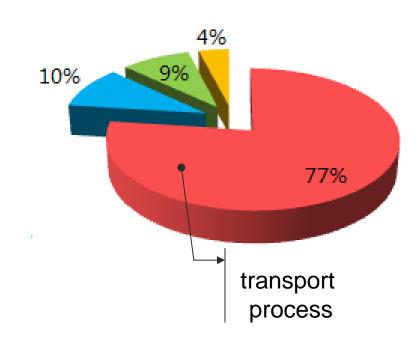
- 1. Overview of road incidents
- 2. Emergency response system
- Investigation Process and method
- 4. Rent work



- China is going through rapid industrialization, output and usage of petroleum and chemical products is very large. Gross output value of petroleum and chemical industry enterprises above designated size reached 12 trillion yuan.
- Due to the cross-regional distributions of enterprises in the supply chain, 95% of which need cross-regional transport.



According to the analysis made by the fire department on 100 dangerous goods incidents they dealt with in recent 5 years , 77% of incidents happened in the transport process, while 10% in the production process, 9 % in the storage process, and 4% in the use, management and recycle process.

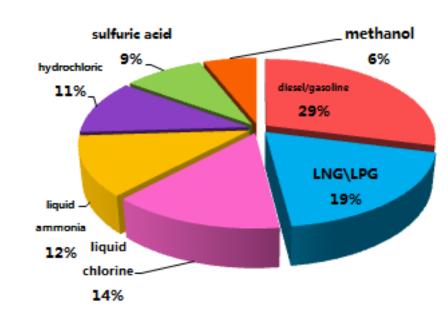




42 kinds of hazardous materials are involved in the above incident.

Accordance with the number of accidents sorted from most to least, the first seven dangerous goods are:

diesel/gasoline, LNG/LPG, Linquid chlorine, Linquid ammoria, Hydrochlonic, Sulfurie acid, Methanol.





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Decrease death and injure, Reduce environmental hazards, Reduce property loss

Quickly response,

Response

according to

different level

accidents

Specialist
handling,
Organize
standardized
and orderly

Different
departments shall
be responsible for
their respective
duties, Coordinated
among departments

Emergency response basic principles





Carrier



Develop emergence response plan, and organize regular emergency drills





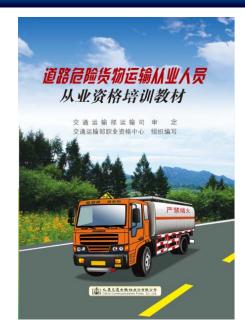


Necessary emergency equipment should be carried in the vehicles









Drivers and Supercargo shall take the training and get Employee Qualification certificate

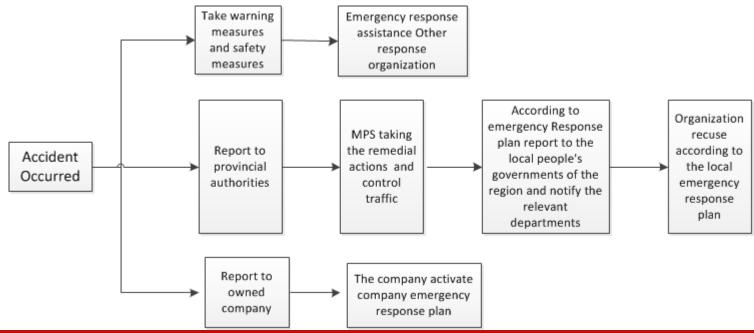


Take warning and safety measures immediately and report to the competent authority when accidents happened



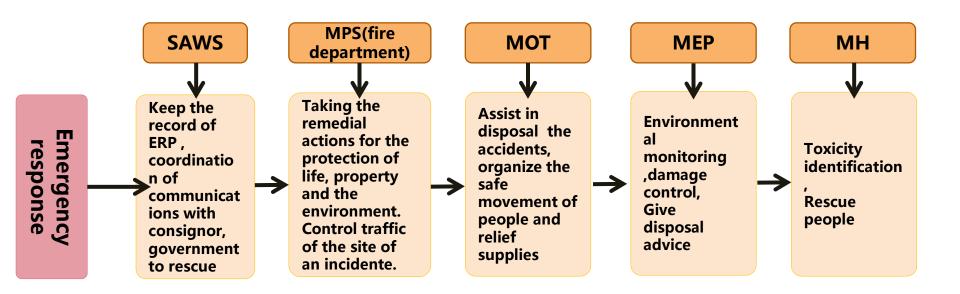


Emergency response process transport accident of Dangerous Goods by Road





Duties of competent authorities







Emergency response method

For example, emergency response of Guangzhou

Emergency response commander

Unified command of the emergency response work

On-site commander

Unified command on-site emergency response

Related Government Agencies

Arrange related working according to commander

Specialists team

Provides professional advice and technical support

Emergency response team

Emergency handling, including firefighters, third-part emergency response organization, carrier,

etc..





Emergency response method

For example, emergency response of Guangzhou

Accident report

Response according to different accident level

Response handling

Accident information publish



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Based on: Production safety incident reporting and investigation Disposal Regulation



Duties:

- (1) Identify the process and cause of the accident, people casualties and direct economic losses;
- (2) Determined the nature of the accident and accident liability;
- (3) Make treatment comments for related responsible parties of the accident ;
- (4) Summarize the lessons of the accident, preventive and corrective measures;
- (5) Submission accident investigation report.



Extremely significant

- More than 30 people death;
- •More than 100 people injures;
- •More than 100 million yuan in direct economic losses

Significant

- •3-10 people death;
- •10-50people injures;
- •10 million-50 million yuan in direct economic losses

Very significant

•10-30 people death;

•50-100people injures;

•50million-100 million yuan in direct economic losses

General

Less than 3 people death;

•Less than 10 people injures;

•Less than 10 million yuan in direct economic losses





Investigation group set up relevant departments of the State Council, or the State Council authorized organizations investigate the accident

The people's
Government at district level
where accident happened is
responsible for
investigating the accident

Extremely Significant Accident

Significant Accident Very Significant Accident

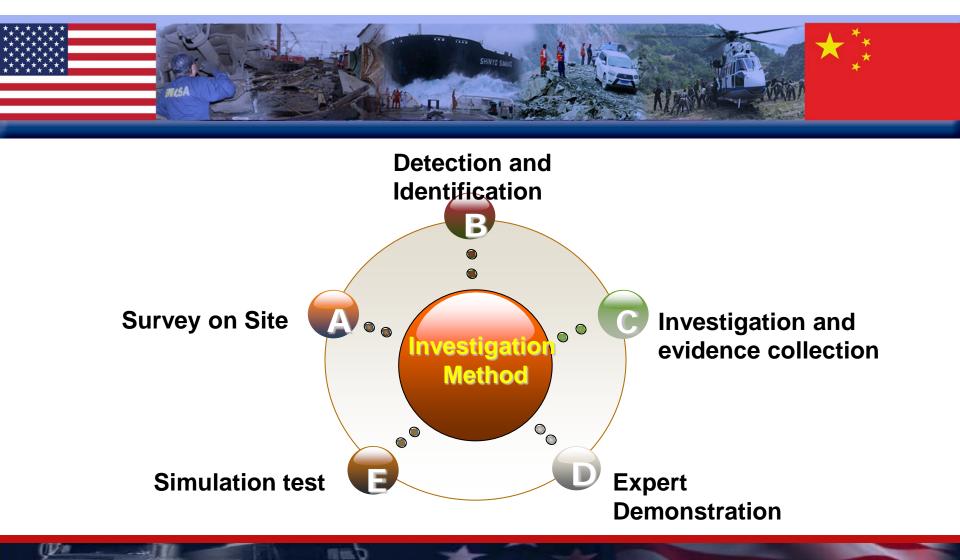
General Accident The peoples government at provincial Level where accident happened is responsible for investigating the accident

The people's government at county level where accident happened is responsible for investigating the accident



Based on: Production safety incident reporting and investigation Disposal Regulation







Based on: Production safety incident reporting and investigation Disposal Regulation





Accident Investigation Process and method in transport of dangerous goods by road

Accident Investigation Group should be submitted the accident investigation report **in 60 days** from the date of the accident happened; In special circumstances, approved by the people's governments in charge of accident investigation, the group may be extended appropriately the time period submitted to the accident investigation report, but the extended time period can not be up to 60 days.



The accident investigation report includes:

- overview of the accident happened company;
- The accident process and emergency response situations;
- People casualties and direct economic losses caused by the accident;
- The cause of the accident and the nature of the accident;
- Accident responsibility cognizance and treatment comments for related responsible parties of the accident;
- Accident prevention and corrective measures.

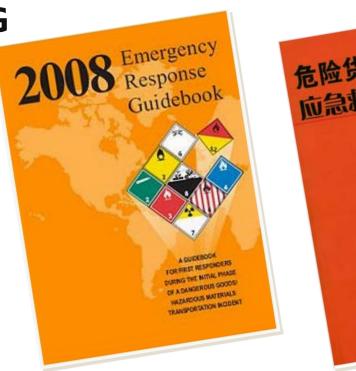


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1 -Translation of ERG











Founded Dangerous Goods Transportation Alliance of China







Thank you!