

7.1 High Pressure Gas Accidents Database (Japan)

OECD GP Activity	UN SF Activity	UN SD Goals / Targets
10. Natech risks in education and training	1. Understanding disaster risk	11.3 By 2030, enhance inclusive and sustainable urbanization...

Classification according to OECD Guiding Principles, UN Sendai Framework Priorities/Activities, and UN SDGs and Targets

Figure 1: Key word search form the High Pressure Gas Accidents Database, cause of accidents: natural disasters

Source: © The High Pressure Gas Safety Institute of Japan

Figure 2: List of key word search results from the High Pressure Gas Incidents Data Base

事故ID	事故区分	事故分類	事故名称	事故発生日	発生	死者	負傷	罹災者	計	物質名	1次事故	2次事故	噴出・漏えいの程度	噴出・漏えいの部位	噴出・漏えいの原因の寸法(注)	噴出・漏えい時の寸法(圧力)	噴出・漏えい時の寸法(流速)	噴出・漏えい時の寸法(噴出圧力)	噴出・漏えい時の寸法(噴出速度)	設備区分	取扱状態	事故原因(主)	事故原因(副)
1972-038	製造事業所 (LP)	B	積込タンクの配管管線によるLPガス漏洩	1972/7/10	広島県	0	6	1	7	液化石油ガス										充満所	タンク	<貯蔵中>	<その他> (自然災害)
1972-103	その他		釜中沸騰によるLPガス貯蔵タンク	1972/5/8	長野県					液化石油ガス										貯蔵本体		<その他> (自然災害)	
1972-105	消費		洗剤缶での酸素ガス漏えい	1972/7/6	熊本県	0	0	0	0	酸素										貯蔵本体		<その他> (自然災害)	
1972-111	製造事業所 (LP)			1972/8/15	滋賀県	10	0	2	12	液化石油ガス										貯蔵本体		<その他> (自然災害)	
1974-017	製造事業所 (C)	C	LPガス基礎漏えい	1974/3/22	大阪府	0	0	0	0	液化石油ガス										貯蔵本体	配管接続部	<貯蔵中>	<自然災害> <その他> (液化石油ガスの漏洩)
1974-063	製造事業所 (C)	C	電線工事現場でガス漏えい	1974/8/3	愛知県	0	0	0	0	酸素										一酸化炭素検知器	送風機	<貯蔵中>	<その他> (自然災害)

Source: © The High Pressure Gas Safety Institute of Japan

Short Facts:

Governance approach: Risk communication
Source: High Pressure Gas Safety Institute of Japan
Entry into force: 2017
Targeted Stakeholders: Authorities, associations, operators
Scope of applicability: National

Natural Hazard(s) Considered:

- Earthquake
 - Flood
 - Typhoon
 - Tsunami
- Climate change:** Not included

Description**High Pressure Gas Accidents Database**

The High Pressure Gas Safety Act requires enterprises and others to report high-pressure gas accidents to the government. The High Pressure Gas Safety Institute of Japan (KHK) analyses and evaluates the reported accidents. In 1988 the KHK began building the High Pressure Gas Accidents Database, available on its website. The KHK also issued the following reports based on the High Pressure Gas Accidents Database:

Annual reports

The KHK has published annual reports about statistics and the analysis of high-pressure gas accidents. See: https://www.khk.or.jp/english/accident_reports.html

A survey on types of high-pressure gas accidents

The KHK has selected three accidents that were found to occur in similar facilities, parts, operations, gas types and compiled a survey report.

Recent accident investigation of high-pressure gas accidents

See: https://www.khk.or.jp/english/accident_reports.html

The KHK selects specific accidents (about 15) from the previous year that serve as valuable lessons for the high-pressure gas accident community and conducts survey analysis (including field surveys) of the causes of accidents.

Link/Contact:

https://www.khk.or.jp/english/accident_reports.html

Comments by the UN/OECD Natech-Steering Group:

Communication of lessons learnt should include also those from Natech accidents. This may be true for several databases for 'major accidents', but not for all Natechs as some of them may not be regarded as 'major accidents' and therefore not be in the scope of the underlying reporting system.

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