





### When an incident occurs







"There's been a industrial accident, we have seven casualties."

"My 3 year old has drunk wallpaper paste."

"Someone's sprayed fertiliser on my wallabies."

"We've lost an ISO tank overboard."

"There's been a pavement explosion."

"There's 40 tons of ammonium nitrate in the burning building."

"The vehicle is carrying a pair of missiles."

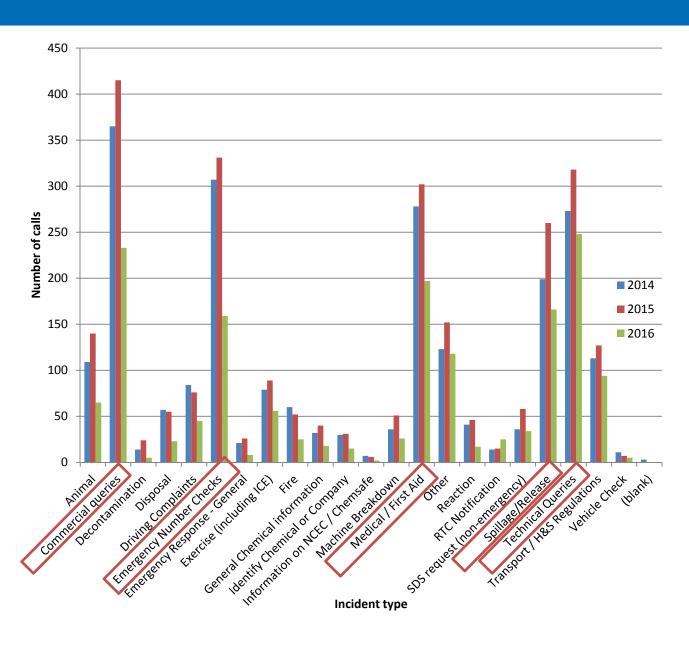
"A tractor has collided with a liquid nitrogen tanker."

"We have a leaking package in the aeroplane."

"If we run out of nitrogen the whole town is at risk."

### **NCEC** calls





### Advice



### NCEC offer telephone advice (Level 1) on:



First aid



Material disposal



Industry regulations



Substance identification



Environmental hazards



Suitable PPE



Chemical reactions



Incident exercises

# Our legacy





# Why is Emergency Response Required



### **Compliance with regulations**

Chemical trade regulations

Transport regulations

Existing regulations vary in strength

Staying on the right side of the regulators

### **Risk Management**

Operational/supply chain risk

Financial Risk

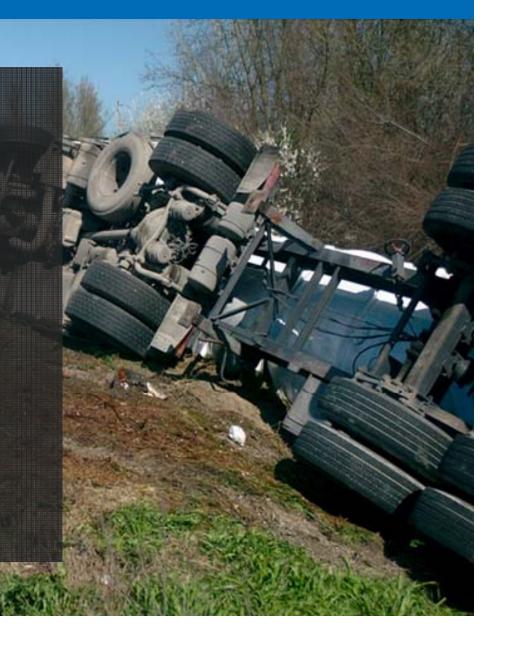
Brand/Reputational damage

### To meet other business objectives

Responsible Care

**Product Stewardship** 

**Corporate Social Responsibility** 



### **NCEC** service





Network of compliant international telephone numbers particularly China



Calls answered by experts - chemical degree minimum



**Liability Protection** 



Worldwide Multilingual Support



Reliable and robust, office-based 365/24/7 and with 7,000+ calls per year.



Global compliance

# Global Emergency Response Regulations – **Road transport**





Region	Country	Emergency number required	In-country number	Local language response	24/7 requirement
	Canada	Yes	No	Yes	Yes
North America	Mexico	Yes	Yes	Expectation	Yes
	USA	Yes	No	Expectation	Yes
	Argentina	Yes	No	Expectation	Yes
South America	Brazil	Yes	Yes	Expectation	Yes
South America	Columbia	Yes	Yes	Expectation	No
	Uruguay	Yes	Unspecified	Unspecified	Expectation
	Australia	Yes	Unspecified	Yes	Yes
	China	Yes	Yes	Yes	Yes
Asia Pacific	Philippines	Yes	Yes	Expectation	No
	India	Yes	Expectation	Yes- English or Hindi	Yes
	New Zealand	Yes	Unspecified	Unspecified	Yes



# Global Emergency Response Regulations – **Supply**



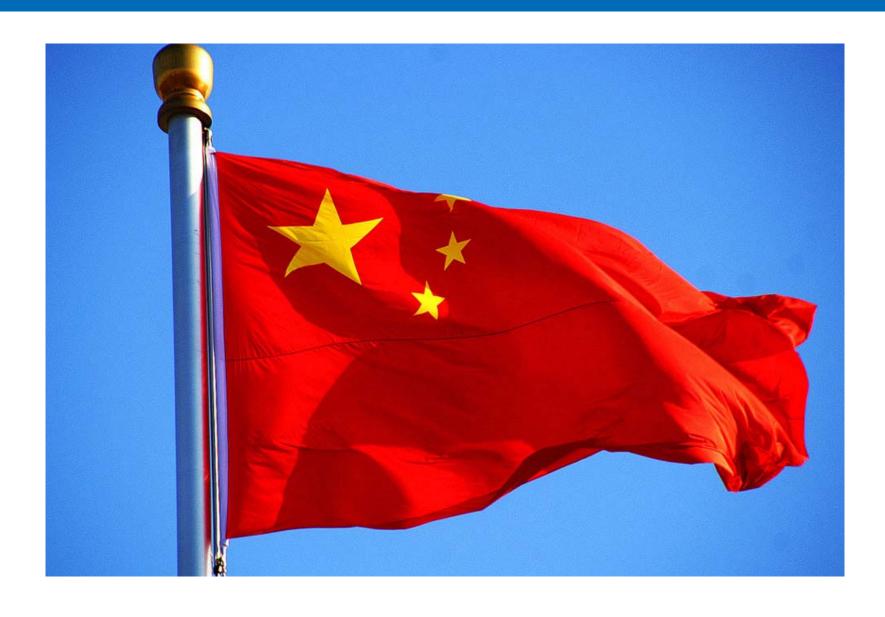


	Region	Country	Emergency number required	In-country number	Local language response	24/7 requirement
		Canada	Yes	No	Yes	Yes
		Mexico	Yes	Yes	Expectation	Not for 2015 GH implementation
		USA	Yes	Unspecified	Expectation	Yes
	America	Argentina	Yes	No	Expectation	No
		Brazil	Yes	Unspecified	Unspecified	Unspecified
		Chile	Yes	Yes	Expectation	No
	•	Columbia	Yes	No	Expectation	No
		Uruguay	Yes	Unspecified	Unspecified	Unspecified
		Australia	Yes	Yes	Yes	No
		China	Yes	Yes	Yes	Yes
		India	Yes	Unspecified	Yes	Yes
		Malaysia	Yes	Not for imports	Yes	Yes
	Asia Pacific	New Zealand	Yes	Unspecified	Unspecified	Yes
		South Korea	Yes	Yes	Yes	Unspecified
		Thailand	Yes	Unspecified	Unspecified	Unspecified
		Taiwan	Yes	Unspecified	Unspecified	Yes
		Japan	Yes	Unspecified	Unspecified	Unspecified
E	•	European Union	Yes	No	No	No
	Europe	Switzerland	Yes	No	Yes	No
		United Kingdom	Yes	No	No	No
	Middle	South Africa	Yes	No	Unspecified	No
	East and	Mauritius	Yes	Unspecified	Unspecified	Unspecified
	Africa	Israel	Yes	No	Unspecified	Unspecified



# China





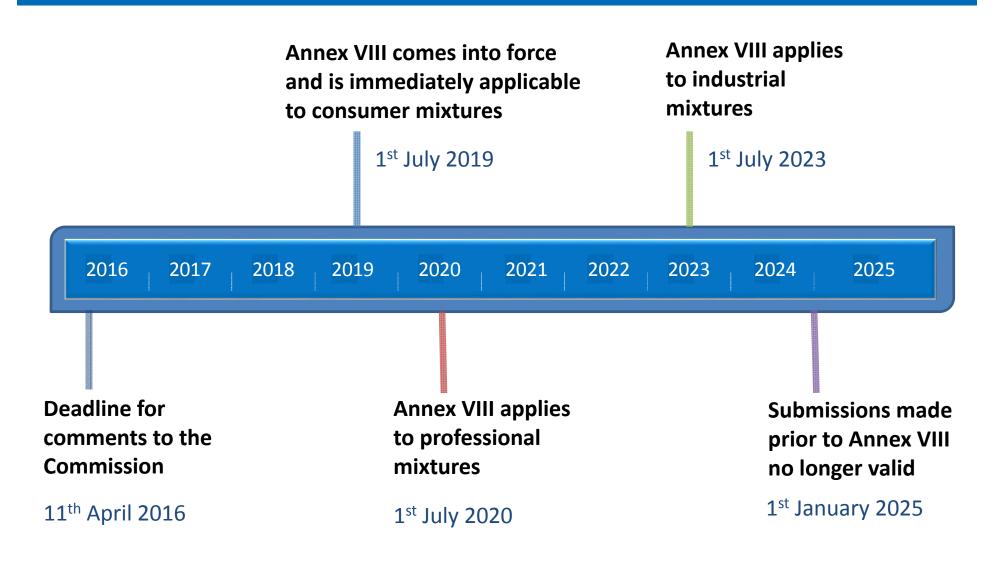
## NCEC and European Poison Centers



New Legislation – Not yet harmonised Medical Advice Only (Often only to Medical Professionals) In-country Number only (No cross-border/global support) No Chemical Spill Advice No Multilingual Capability 24hr Operations and Resilience Capability is Varied **Best Practice:** Two Numbers on SDS section 1.4 One Emergency Response number on Transport Docs, Labels, etc.

## Registration timetable





# Member state variation in implementation



	UK	Netherlands	Germany	France	Spain
Information format	SDS	SDS Full composition Data from medical- toxiciological tests	Exact composition Product labels Instructions for use Precautionary measures Emergency instructions .XML index	Usage Brand name SDS Label Full composition Quantity on the market	Brand name Unique Identification code Classification Exact composition .XML index
Mandatory submission?	Voluntary (Best practice)	Yes, all products classified as hazardous	Yes, all products classified as hazardous	Yes, phased hazard submission over 8 years	Yes, phased usage submission over 2 years
Submission fee	Free	Free	"Free"	Submission free but pre-registration costly.	€30 for each new product
Fine for non- submission	No	Yes	Yes	Yes, €3,750 per product	Yes

Extract of Poison Centre information pack, NCEC 2016, one of a series of reports and white papers available on the NCEC website, <a href="https://example.com/here.">here.</a>

# Reduced submission for industrial products



- If a product is solely used on an industrial site then it may be eligible for reduced submission
- An SDS will suffice but this must be complimented with a **24hour emergency number** where additional product information can be supplied



# **REACH Summary**





### **Economics of submission**



Approximate cost analysis for 24 Member States and participating counties based on the *current (Spring 16)* fee structure

Malta and Lichtenstein are excluded as they have no appointed receiving body

6 Member States excluded as their fee information is not publicly available

Notes	10 products	1000 products
22 Member states- inclusive of annual retainer	€ 3,377.40	€ 135,750.00
Belgium and Luxemburg included	€ 7,377.40	€ 535,750.00

# Emergency Response | service structure



#### **Feedback**

Procedure/ Information management Telephone and IT infrastructure

Provision of advice

Reporting and performance

Procedure development SDS management Phone number display

Recording

Multilingual partner

Failover

network/phones

Data management
tools

Training
Chemdata
SDS/procedures
Web/legislation
Links to global
networks: Level 2/3

Call reports
Annual reporting
Customer satisfaction

# Emergency Response | call process



#### Start

- Call received by NCEC
- Direct (English language) or with interpreter (non-English)

### Identify

- Emergency Responder identifies product name
- Caller's telephone number

#### Review

- Safety Data
   Sheet or other
   data source
- Customer call handling instructions

#### Ask

- What are the circumstances of the incident?
- What help does the caller need?

#### Advise

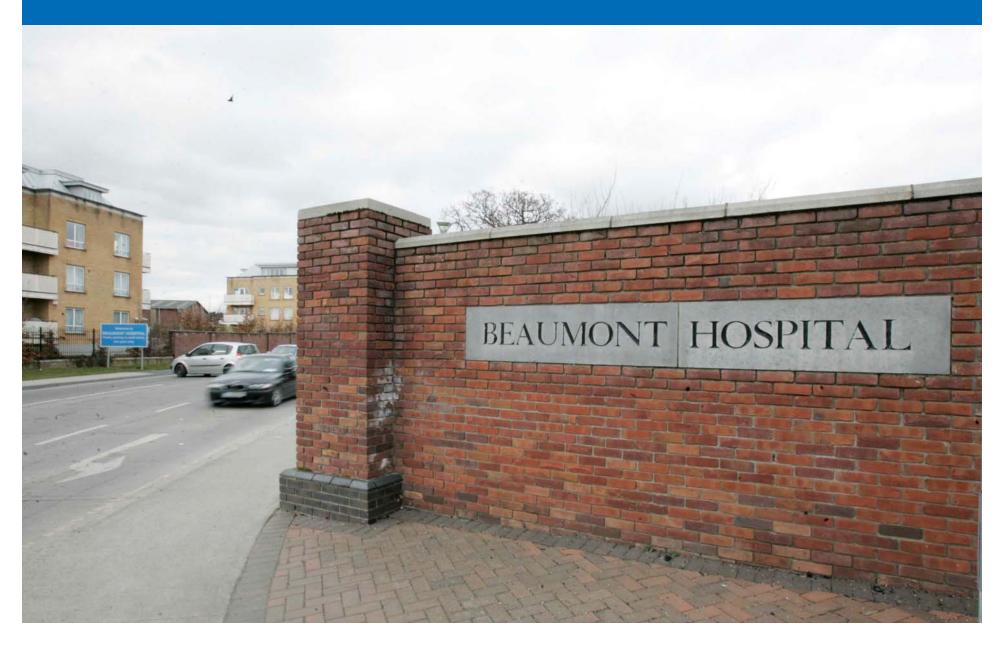
- Interpret the SDS information in the context of the incident
- Minimise risk to people, property and environment
- Protect customer's commercial interests and reputation

#### End

- Report call to the customer according to the call handling instructions
- Prepare full written call report

# Poison Incident – January 2015







 Multiple chemicals were released during an industrial accident at a pharmaceutical manufacturing plant.

4 personnel immediately exposed.

- 3 person rescue team equipped with respiratory protection suffered minor exposure.
- Five chemicals were being used, but it's uncertain which were released.
- Symptoms relate to exposure via inhalation.
- Hospital staff need urgent treatment information.





$$H_3C$$
 $CH_3$ 
 $CH_3$ 
 $CH_3$ 
 $CH_3$ 

Diisopropylamine

Corrosive Colourless in air

$$F_3$$
C  $O$   $CF_3$ 

Trifluoroacetic anhydride

Acutely toxic by inhalation Corrosive Resembles steam

Time critical – Seven people are in A&E waiting for treatment

## Best practice from industry peers



#### Best practices:

- Auditing of customers
- Supply chain training (esp. hauliers) initiatives such as: permitting system, train the trainer, ride along, spot checks, driver/haulier of the year, training records, route reviews, route change reviews
- Removing drivers from the unloading process. Ensuring unloading sites understand their responsibilities inline with CEFIC guidance
- Monitoring of statistics, investigation of incidents and trends
- Testing and exercising full system tests with well-defined objectives and embedded learning
- Importance of long-term relationships with suppliers to help implement achievable improvements and best practice, near miss reporting and follow-up
- Safety culture whether inherent or grown. Particularly in key roles such as Supervisors who may need a toolkit of leadership skills they have not developed in their technical career to date
- Contractors signing up to 'codes of conduct' when working on or delivering to a site
- Load securing taking photos of load securing, ensuring products are being passed to third parties in a secure way
- Working with procurement to define standards from the beginning of a contract

#### Areas of concern:

- Small organisations with minimal investment in unloading and safety infrastructure and/or reliance on key individuals to uphold standards which becomes a major risk when they leave or retire
- Increased scrutiny on chemical security and the ability to 'track and trace' products and ensuring the reputability of suppliers and that suppliers will uphold the same standards
- The hazard of mixed loads onsite when hauliers, third parties collect or drop chemicals onto site the risk of the unknown chemicals being transported in that load

### Next steps



- Are you globally compliant with ER regulations for supply and transport?
- Have you considered you options for Poison Centre response and covering non-medical incidents?
- How does your existing systems, procedures compare to best practice?
- Where can you improve your compliance or response?

### Resources - the-ncec.com/resources/



### **NCEC Resources**

Welcome to the NCEC resources page. Here you will find useful information aimed at professionals working / involved with chemicals or hazardous substances. If there is a particular resource or information that you would find useful, but is not listed below, then please feel free to email NCEC@ricardo.com







#### Safety data sheet writing white paper

This document has been created to help you complete each of the 16 sections required in an SDS and highlights the requirements that are frequently missed.

#### Poison centre information pack

An overview of information related to EU Poison Centres including; contact requirement details, telephone numbers and fee requirements.

#### Poison Centre Compliance report

NCEC has put together the following report to support our clients in understanding their regulatory obligations regarding European Poison Centres.

# NCEC Part of Ricardo



# Our history





1973

Incident involving fuming sulphuric acid led to NCEC being established



1980

NCEC starts emergency response support to private sector clients



1997

Safety data sheet (SDS) consultancy launched



2005

Launch of Pocket Chemdata device



2008

Launch of annual Hazmat Conference



2014

Launch of crisis management services

1974

Launch of Chemsafe

1983

Launch of Chemdata

CHEM



2000

Launch of Carechem 24 international service



2006

Level 2/3 database compiled for use in emergency response



2013

Upgraded emergency telephony system



2015

Launch of Global **Chemical Congress** 







