



Chemdata® News

The newsletter for all Chemdata® users, highlighting programme developments and other issues of interest to emergency responders.

Chemdata® 2015.2 update

Proportionate spill advice is here

The 2015.2 standard release of Chemdata® is ready for release. Over 2,500 documents have been added or updated meaning there are now over 60,000 substances listed and more than 175,000 synonyms and trade names recorded.

2015.2 is primarily a data update including significant changes in the form of more proportionate spill advice. This focuses on very small, small, medium and large spills, and incorporates the different spill sizes into the personal protective equipment (PPE) advice and the precautions to be taken.

I look forward to hearing user feedback on this exciting development.

Our training team has been busy creating a suite of online training programmes that are tailored for the emergency services.

This issue's legislation briefing looks forward to Hazmat 2016, with a preview of the programme and expected highlights of the event. Book now to secure your place.

Maria

Additional changes for 2015.2

Immediate life-saving (snatch) rescue advice and first-aid advice

As part of our consultation with users on the addition of proportionate spill advice, we also looked at where else improvements could be made. Adding phrases related to immediate life-saving or snatch rescues was felt to be of benefit. Such advice can now be found in the protection section of updated Chemdata® documents.

Another area discussed during the consultation was first aid. It became apparent that it would be advantageous to simplify the layout of the first-aid phrases into a series of short bullet points for each exposure route to provide fire and rescue service users with the option to use that list as a checklist. This has been implemented for all Chemdata® documents in the 2015.2 release.

Chemsafe refresher training

NCEC is offering emergency services that use Chemdata® a free* training visit. The aim is to remind them about the use of the Chemsafe line, which is a free service at the point of use (other than phone call charges).

You may already have a training day planned or we can plan a customised visit to suit your needs. During the presentation we remind delegates of the Chemsafe scheme, explain our role and operations, and give an outline of recent changes in legislation. We discuss and provide examples of the calls we take, use Chemdata® to run through some examples and exercises, and answer any questions.

The presentation is aimed at hazmat officers, fire control operators and police officers. We would encourage the attendance of any others who might find it useful (e.g. local Environment Agency representatives). We aim to visit every UK fire and rescue service once every three years, and are hoping to develop a similar visit schedule for UK police forces.

*We may ask you to make a contribution to travel and subsistence costs. There is no charge for the training.

Proportionate spill advice

NCEC's latest development for Chemdata® is the introduction of spill advice specifically for small-scale incidents, so helping emergency services provide a more proportionate response, which will save time, resources and money. This important addition is the result of feedback from Chemdata® users, which indicates that the majority of incidents attended are for spills of less than 1 litre (very small) or up to 25 litres (small) and there is a need for better differentiation between the Chemdata® advice for these smaller spills and bulk incidents. With increasing pressure on fire and rescue service budgets, this is becoming more important – not just in the UK, but around the world.

We have responded by adding new levels of information in the existing precautions advice, and including scaled advice for PPE and decontamination requirements. Decontamination advice will be based on the type of PPE used and the degree of contamination. The definitions shown in the table below have been consulted on with a selection of end users and unanimously agreed. The table also shows how our spill size definitions compare with the North American Emergency Response Guide (ERG) definitions.

NCEC is taking a phased approach to adding proportionate advice – the top 30 substances searched for in Chemdata® being addressed first. In later Chemdata® releases, this proportionate advice will be added to more and more documents. Priority will be given to documents detailing the most hazardous materials and those that our users have indicated they search for most often.

NCEC sees this development as a significant step forward in helping the emergency services respond to chemical incidents safely, efficiently and cost-effectively.

	Liquids	Gases	Solids	Initial Isolation and Protective Action Distances (NAERG)
Very small spills	Less than 1 litre	A cylinder up to 2kg hydraulic capacity (less than 0.5 metre tall)	Less than 1kg	<i>Small spills:</i> NAERG defines a small spill as less than 200 litres for liquids and less than 300kg for solids
Small spills	1 litre to 25 litres	A cylinder up to 20kg hydraulic capacity (less than 1 metre tall)	1kg to 25kg	
Medium spills	25 litres to 200 litres	A cylinder up to 100kg hydraulic capacity (more than 1 metre tall)	25kg to 300kg	
Large spills	More than 200 litres	A cylinder with greater than 100kg hydraulic capacity	More than 300kg	<i>Large spills:</i> NAERG defines a large spill as more than 200 litres for liquids and more than 300kg for solids

Familiarisation video for proportionate advice



We appreciate that as well as providing more advice, this is a significant change and organisations will need to ensure their Chemdata® end users understand the new information being presented. To help with this, all installation CDs now include a complimentary video that highlights the changes that have been made and why they have been made.

The video can be used to familiarise users with the new layout and spill size definitions. Incorporated in the video is a demonstration of Chemdata® that shows example documents with the new proportionate advice, immediate life-saving (snatch) rescue advice and simplified first-aid advice.

For organisations wanting more detailed training accompanied by an assessment to demonstrate user understanding, we have an online training course available at £25 + VAT.

Visit http://estore.ricardo.com/shop/Chemdata@_training/ for more information.



Pocket Chemdata®

Pocket Chemdata® can be installed on mobile devices using IOS and Android™ operating systems and selected BlackBerry™ devices¹.

We have Pocket Chemdata® apps available for IOS and Android devices. The BlackBerry 10.2.1 operating system allows users of BlackBerry touchscreen devices (such as Z10 and Z30) to install Android apps on their BlackBerry devices, further increasing the availability of Pocket Chemdata®.

We are also investigating the potential for a version of Chemdata® that can be used on Windows Phones®². Please [register your interest](#) so we can keep you updated on progress with this development.

Existing Chemdata® subscribers benefit from substantial discounts to the standard Pocket Chemdata® licence prices (volume discounts are also available), making this a great way to extend the availability of Chemdata® in your organisation. Hazmat officers in particular are benefitting from Chemdata® access on the go and we have seen several more clients adding Pocket Chemdata® licences to their subscriptions. To request a quotation please [contact us](#).



The courses on offer include:

- Asbestos.
- Batteries.
- Chemical and waste fires.
- Chemical fatalities.
- Cleaning products.
- Cylinders in a fire.
- Explosives.
- High risk chemicals: bromine, titanium tetrachloride, acrylonitrile and ethylene oxide.
- Hydrogen fluoride safety.
- Hybrid cars.
- Illicit drug laboratories.
- Lithium-ion batteries.
- Mercury spillages.
- Refrigerant gases.
- Pool chemicals.

New online training modules help fire and rescue service crews prepare for emerging chemical hazards

From fuel-cell combustion and chemical fatalities to clandestine drug laboratories and high-consequence chemicals, NCEC's new online training modules will help fire and rescue services prepare for the range of emerging and existing chemical hazards encountered in the field. Developed by NCEC's team of trained chemists and emergency responders as online alternatives to face-to-face training, the modules offer essential information on the underlying chemistry, reactivity and hazards of a range of chemicals and situations; and best practice for reducing the impact of incidents when they occur.

They are priced at £25 plus VAT per participant, with discounted rates for groups of over 10 or 20.

The online modules will be available from February on the Ricardo estore <http://estore.ricardo.com/shop/>

For more information on the complete range of NCEC training services, please visit <http://the-ncec.com/training/>



The screenshot shows the ChemData app interface for Chlorine. At the top, there is a green header with a menu icon, the word 'Advice', and the 'ChemData' logo. Below this is a light green bar with the word 'CHLORINE'. The main content area is yellow and contains four hazard pictograms: a gas cylinder, a flame, a biohazard, and a skull and crossbones. Below the pictograms, there are fields for 'ADR HIN 265', 'UN No. 1017', 'EAC 2XE', and 'APP CODE A(c)'. A purple bar labeled 'Protection' contains a bullet point: 'APP CODE - A(c): Gas-tight chemical protective clothing in combination with breathing apparatus, fire kit and thermal resistant overgloves should be worn. The fire kit and overgloves are to provide additional thermal protection against the hazards provided by liquefied gas with a boiling point below -20C.' Below this is another purple bar labeled 'Hazards' with two bullet points: 'Liquefied pressure gas.' and 'Heating will cause pressure rise with risk of bursting and explosion.' At the bottom, there is a navigation bar with icons for Search, Results, Document, Help, and About.

¹ IOS is a trademark of Apple Inc, registered in the USA and other countries. Android is a trademark of Google Inc. BlackBerry is the trademark or registered trademark of BlackBerry Limited.

² Windows is either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Hazmat 2016 preview

When and where?

18 and 19 May 2016 at Holiday Inn, Stratford-upon-Avon.
Standard rate (from 1 February 2016) – £725 plus VAT
Optional pre-conference workshop on 17 May 2016 – £95 plus VAT

For more information, please visit <http://the-ncec.com/hazmat-2016/>

The Hazmat annual conference is the ultimate forum for hazmat specialists to share experiences and gain knowledge. Now in its 9th year, Hazmat continues to provide the opportunity to network with like-minded professionals working in the hazmat and chemical-incident industry.



For 2016 we are moving to a new venue in picturesque Stratford-upon-Avon. This venue provides more space for delegates and exhibitors and is only 20 minutes away from Tactical Hazmat's Lauriston Park facility near Evesham.

In response to delegate feedback gathered at previous events, Hazmat 2016 will incorporate interactive workshops on a range of subjects over the two days. Delegates can register for two of the following five workshops on offer – Wet chemistry practical; Emergency response training and operations involving radiation; In-depth case study; Practical vapour detection; and Initial operational response. A copy of the draft programme is shown on the next page.

Also returning for 2016 will be the optional pre-conference workshop run by Tactical Hazmat. The workshop will be held at Tactical Hazmat's Lauriston Park facility – just 20 minutes from Stratford-upon-Avon – and focuses on practical training for hazmat teams. The session will be led by the renowned fire service veteran and trainer, Mike Callan from the USA.

Don't just take our word for it – these are some of the comments we received from people who attended Hazmat 2015:

'The conference is the only national event specifically for HAZMAT professionals in the Fire Service. It's a quality, learning conference and an excellent networking event.'



'Very good event. Well done to all involved.'



'Great conference as usual. The knowledge of presenters is always appreciated and makes it more enjoyable.'

We look forward to seeing you there – book your place today

HAZMAT 2016 ANNUAL CONFERENCE
SPECIALIST ADVISOR 01235 753654 NCEC

NCEC
Part of Ricardo

TACTICAL HAZMAT

Fire Times

THE INSTITUTION OF FIRE ENGINEERS
10.5 HOURS ESTABLISHED 1864

Hazmat 2016 draft programme

Optional pre-conference workshop 17 May, Lauriston Park, near Evesham
Practical Training for Hazmat Teams

Street-smart tips, techniques, practical exercises and training tools for hazmat responders.

Main programme

Day 1, 18 May					
Keynote 1	Dave Walton, CFOA Hazmat Lead, West Yorkshire Fire & Rescue				
Keynote 2	Ian Womersley, CBRN Centre, College of Policing				
Break					
	Parallel 1	Parallel 2	Parallel 3		
AM 1	tbc Changes in ERG 2016	Bob Hark, National Operational Guidance/Tactical Hazmat Overview of updated National Operational Guidance regarding PPE	CBRN Centre, College of Policing Special Operational Response		
AM 2	Nick Brooke, Public Health England Assessing pollutant ingress into buildings from uncontained chemical incidents and fires	Chris Dooley, Avon and Somerset Constabulary Oxygen tanker incident case study	tbc Terror threat from chemicals		
Lunch break					
	A	B	C	D	E
1 st Workshop	Hazard categorisation (field chemistry) Dave Reynolds/ Kevin Miller, Tactical Hazmat	Emergency Response training and operations involving radiation Mac McGearey, Ciara High Risk	Case study Cyanide Mark Walchester Staffordshire FRS and John Overend Staffordshire Constabulary	Air monitoring Rob Mitchell, Tactical Hazmat	Initial Operational Response David Hargreaves, CBRN Centre, College of Policing
2 nd Workshop	As above	As above	As above	As above	As above
Day 2, 19 May					
	Parallel 1	Parallel 2	Parallel 3	Parallel 4	
AM 1	Dr Tom Baker, NCEC Batteries including grid storage – fuel cells and alternative fuels (H2/LPG)	Kevin Miller, Tactical Hazmat Breaking the badness (IDL, regs, suicides)	Joanne Dunn, Yara UK Limited Ammonium nitrate	Peter Gustafson, London Fire Brigade Decontamination – London's experiences and National Operational Guidance	
AM 2	Jetty Middelkoop, Fire Dept. Amstelland Breathing organic material (e.g. CO from wood pellets)	Dr Emanuele Pianese, Head of CBRN Fire Brigades, Italy Nuclear and radiation detection and ID	Dr Tom Baker, NCEC Batteries including grid storage – including fuel cells and alternative fuels (H2/LPG)	Kevin Miller, Tactical Hazmat Breaking the badness (IDL, regs, suicides)	
AM 3	Joanne Dunn, Yara UK Limited Ammonium nitrate	Peter Gustafson, London Fire Brigade Decontamination – London's experiences and National Operational Guidance	Jetty Middelkoop, Fire Dept. Amstelland Breathing organic material (e.g. CO from wood pellets)	Dr Emanuele Pianese, Head of CBRN Fire Brigades, Italy Nuclear and radiation detection and ID	
Lunch break					
PM	Desktop exercise, Tom Baker and Simon Jones, NCEC plus Tactical Hazmat				
	Summing up and close of conference Jon Gibbard, NCEC				

