



## Flame Brazing Service:

### Derek Davies supports the NOCOLOK<sup>®</sup>-Team

Flame Brazing Services is owned and managed by Derek Davies BSc (Hons). Derek's degree is in Industrial Natural Gas Engineering from Salford University 1979. His thesis was on Heat Transfer from Small Working Flames. Derek has been extensively involved in flame brazing for 30 years and has delivered many theoretical, and practical training sessions. He is a committee member and flame braze training provider for EABS. Derek Davies is a troubleshooter around the world for all flame-brazing applications



including manual and machine brazing of various complexity. Derek provides a valuable addition to Solvay technical services.

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## Health Safety and Environment:

### REACH Implications on NOCOLOK<sup>®</sup> Flux

As for many other chemicals, REACH requirements are affecting the classification of potassium aluminium fluoride (NOCOLOK<sup>®</sup> Flux). The new regulations must be implemented effective December 1, 2010. You – as customer – and we – as the manufacturer – will be faced with a more severe rating and labelling of some major NOCOLOK<sup>®</sup> products. Solvay Fluor is well aware that there might be concerns about this in the industry.

A seminar about Reach Implication on NOCOLOK<sup>®</sup> Flux took place at Solvay Fluor in Hanover on 28 October. Specialists from Solvay S.A., Bruxelles und Solvay Fluor, Hannover held several presentations about the different aspects of REACH and impacts for NOCOLOK<sup>®</sup>.

#### REACH Registration Status of Aluminium Potassium Fluoride (NOCOLOK<sup>®</sup> Flux)

The REACH dossier is being developed in the frame of the "REACH Fluoroaluminates Consortium" with five other member companies. 32 studies (phys-chem & toxicology) were used to fill the requirements of the REACH regulation. Solvay took over the lead as the biggest producer in Europe. The Chemical Safety Report covers a broad range of potential uses of the substance and all uses are codified according to the "ECHA Guidance on information requirements and chemical safety assessment Chapter R.12: Use descriptor system". All uses are demonstrated to be safe when defined risk management measures are applied.

#### Classification of NOCOLOK<sup>®</sup> Flux

The EU version of the worldwide GHS system (Globally Harmonised System) starts on Dec 1, 2010. It is Regulation 1272/2008, named CLP – Classification, Labelling and Packaging. The "EU version of GHS" differs slightly from the US, Japanese, Korean version of GHS. GHS is a much broader and more complex, but better explained system to classify dangerous chemicals and is aimed to serve globally. The official classification of aluminium potassium fluoride is available

via the REACH Fluoroaluminates Consortium website <http://www.reachcentrum.eu/EN/consortium-management/consortia-under-reach/fluoroaluminates-reach-consortium.aspx>. If you need a Material Safety Data Sheet (MSDS) for a NOCOLOK<sup>®</sup> product please contact Annette Daubner (mailto:annette.daubner@solvay.com).



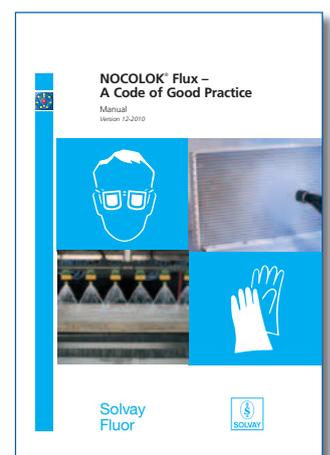
#### NOCOLOK<sup>®</sup> Flux Future Transport Classification

The transport classification will be made by the appropriate competent authority when so required or may otherwise be made by the consignor. There will be nine hazards classes: 1 to 9 – some with subdivisions – and three packing groups: I (high danger), II (medium danger), III (low danger). Dangerous goods are assigned to UN numbers and proper shipping names according to their hazard classification and their composition.

NOCOLOK<sup>®</sup> Flux or aluminium potassium fluoride is not mentioned by name in the Dangerous Goods List and does not have a hazard classification which requires an assignment to dangerous goods group. So until now, NOCOLOK<sup>®</sup> Flux has not been subject to transport regulations.

#### New Publication

Solvay Fluor will publish the new HSE-Manual "NOCOLOK<sup>®</sup> Flux – A Code of Good Practice" with all recommendations for the safe handling of NOCOLOK<sup>®</sup> Flux in December 2010. We will keep you informed!



Aluminium brazing online:

## NOCOLOK® presents new website

Solvay Fluor overhauled and relaunched NOCOLOK®'s website in the middle of this year. The objective of NOCOLOK®'s new



web pages, located within the Solvay Fluor web presence, is to give internet users faster access and more comprehensive information about NOCOLOK®. The overhaul features new, easy-to-use site navigation. Information can be found quickly. A summary of all NOCOLOK® products, their application and key characteristics is complemented by a comprehensive description of all NOCOLOK® packaging units. Analyses and tests available from the Hannover Technical Centre are described in detail in the services section. A news and event page rounds off the current information offer. We look forward to every single visitor to [www.nocolok.com](http://www.nocolok.com). Join us on our website, you'll be pleasantly surprised.

### Aluminium brazing NOCOLOK® on YouTube

Moving pictures say more than a thousand words, especially where complex issues are involved. Reason enough for Solvay Fluor to produce videos for a better understanding of the processes in action when brazing aluminium with NOCOLOK® Flux. All videos published to date are available on the dedicated NOCOLOK® YouTube channel: [www.youtube.com/nocolokflux](http://www.youtube.com/nocolokflux)



### Broad-based presence

NOCOLOK® is now well represented in the web: not only with its new website and the YouTube channel; NOCOLOK® also has its own blog. Users can join a discussion platform at [www.aluminium-brazing.com](http://www.aluminium-brazing.com) covering everything relating to aluminium brazing. That the sites are popular with users is documented by the steady increase in visitor numbers.

### Review of Events:

## Sapa China Seminar, EABS Seminar, AFC-Holcroft Seminar

### Asia

The SAPA Technical Seminar in September in Shanghai was extraordinarily well attended with over 450 participants. Levels of user knowledge have now reached such a high level that the demand for more and more specialised information is expanding accordingly. The number of visitors from the stationary air-conditioning sector was up again year-on-year. This gives reason to hope that aluminium brazing will expand its share of this market. Producers from the car industry now frequently use any spare capacity to



brazed heat exchangers for air-conditioning and refrigeration systems. The next SAPA seminar is scheduled for 2012; organisers and sponsors, such as Solvay Fluor, are working together to draft a concept which again defines industry trends.



### Europe

The sell-out EABS brazing seminar took place at Solvay Fluor in Hannover in early October. The 36 attendees not only participated in theoretical training sessions but

## Brazing Events First Half Year 2011

### AHR EXPO

Las Vegas, Nevada, USA  
January 31 - February 2, 2011  
Stand C2357  
Las Vegas Convention Center  
3150 Paradise Road  
Las Vegas, NV 89109

[www.ahrexpo.com](http://www.ahrexpo.com)

## NOCOLOK® NEWS

presents information for NOCOLOK® users.

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also saw practical brazing demonstrations in the NOCOLOK® Technical Centre. The exchange of experience between guests and Solvay Fluor experts was a key aspect of the two-day seminar. Many follow-on meetings were arranged.

### United States of America

In the USA, AFC-Holcroft organised a seminar in Novi/Michigan at the end of October. 120 attendees were informed about engineering practice and latest developments in aluminium brazing. The three-day programme provided the frame for 25 specialist papers and Q&A sessions with experts. Day one looked at the basics of controlled atmosphere brazing. This was the ideal intro for beginners and a good refresher for advanced participants. During the next two days presenters reported on state-of-the-art technologies, covering aspects like materials, processes and furnace brazing systems. The enthusiastic audience enjoyed a top-class event, sponsored by Solvay Fluorides.