# Journée Club CCM Solvants Chromatographie

#### Véronique Moreau Oct.09



The world leader in serving science



### Thermo Fisher Scientific organization



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**Technology & Innovation** 

Laboratory workflow solutions

SCIENTIFIC

High-end analytical

instruments, software,

reagents, consumables

#### **ThermoFisher** SCIENTIFIC





- Choice & Convenience
- Complete product portfolio of laboratory equipment and supplies
  - One-stop, total lab supplier

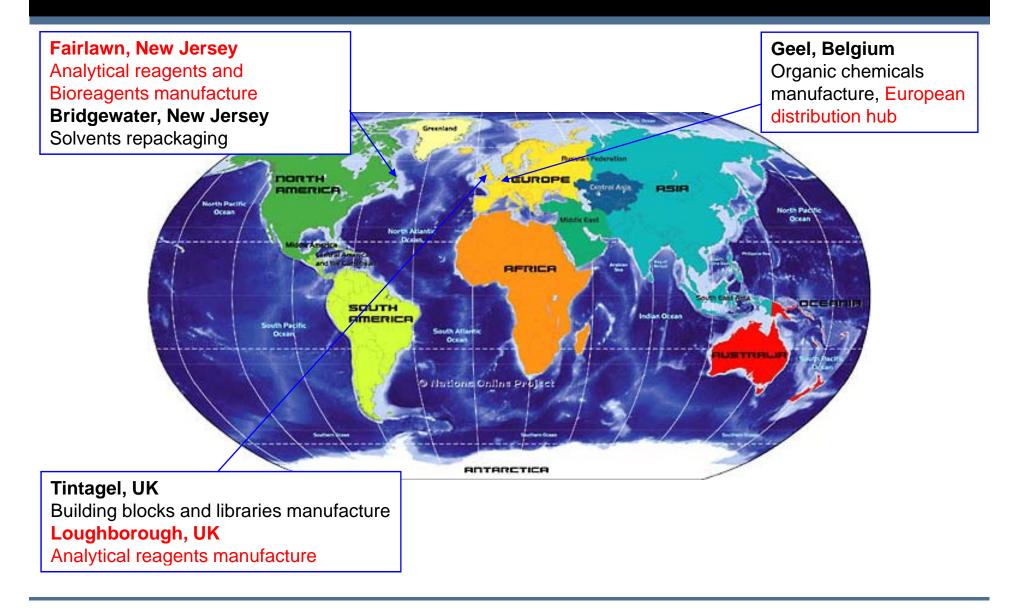
# **Global Chemicals**

Including

Acros Organics, Fisher Bioreagents, Fisher Chemical & Maybridge



### Global chemicals – Where are we?





# UK Manufacturing Facilities - Loughborough





#### Solvent distillation plant

 4,500lt still, two 1,300L stills and two 200L stills

#### Split site location

- Manufacturing, solids/liquids repacking and none solvent storage
- Solvent repackaging, storage and export packing

#### Multi purpose plant

- Thirteen vessels from 2,600L to 250L
- Volumetric solution laboratory
  - 200L to 2,000L
- Kilo Lab facility

Full QC/QA Analytical Support









#### US Manufacturing Facilities in Fair Lawn and Bridgewater



- Our manufacturing operations employ over 275 people
- We annually produce over 3.5 million gallons of liquid chemicals and 1.2 million pounds of dry salts



 Our production capabilities include: blending solvents, distillation,

crystallization, testing, packaging, filling, USP grade, multicompendial, GMP and complete customized chemical solutions









#### Use of Global Chemicals Brands in Chemistry & Life Sciences

Scale-Up	Support the development and production activities through expertise in sourcing, manufacturing and technology partnerships.		Group Capabilities: Custom Chemistry; Multi- compendials; Specialties
Evaluation	A selected range of products to study cellular activities, cell viability, signal transduction, protein interactions and function.	Fisher BioReagents	Essential chemicals and reagents for: Molecular Biology, Protein Chemistry, Cell Biology & Microbiology
Analysis	Analytical products such as high purity solvents, acids and specialty reagents for testing compound drug candidates.	Fisher Chemical	High purity & specific range of Solvents, Acids, Bases. Solids & Solutions for Titration
Purification	Simplified and improved throughput for organic, synthetic and medicinal purification.	Fisher Chemical	Chromatography Products & Solvents
Synthesis	Confidential process development, custom synthesis and contract manufacture.	ALC	Heterocyclic Building Blocks Organic Synthesis Reactants Organic Synthesis Reagents
Planning	Technical support staff committed to provide the highest level of service one very step of the drug discovery pathway.	ACRŌS ORGANICS	Laboratory to commercial-scale Extended technical support and tools via web Tools available: certificate of analysis, safety training and web seminars
Screening	Innovative drug-like molecules and screening compounds reflecting 45 years of experience.	MAYBRIDGE	Standard Libraries & Virtual Libraries



# **Fisher Chemical Product Portfolio**

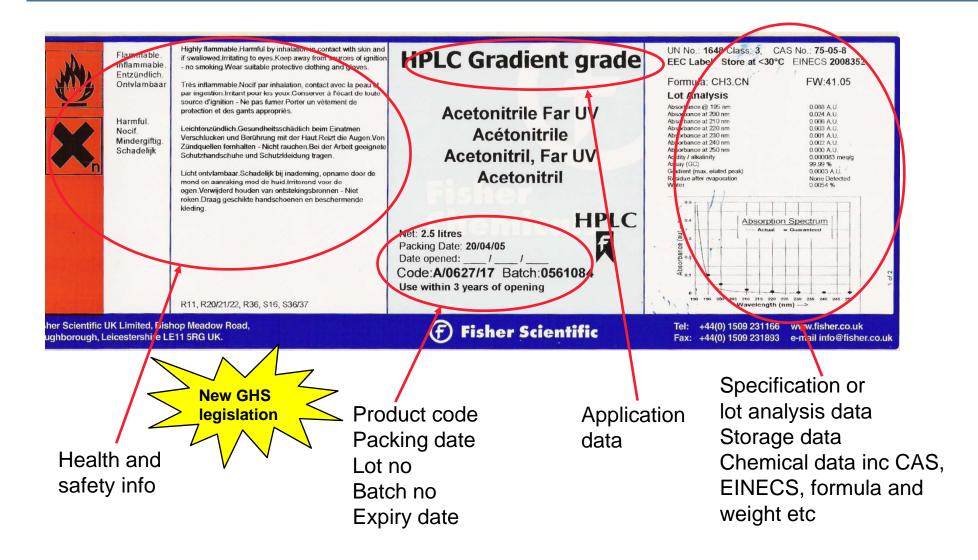
#### Fisher Chemical analytical reagents are available in different grades designed for your application.

For easy reading the different grades have been colour coded in the Fisher Chemical catalogue and carry a special quality label on the bottle.

specific	analysis	extra-pure	titration
Specific Wide range of Solvents PHLC -MS & Optima LC-MS grade Advanced HPLC gradient grade PHLC Gradient grade HPLC Electrochemical PHLC Electrochemical PHLC Fluorescence 9 Gel Permeation Chromatography Por Pesticide & Petroleum Residue - Distol Pried distilled Beagents, Acids, Bases & Standards Prima Trace Metal analysis- Optima TM (ppt level) Por Trace Metal grade ( ppb level) & Pimar Plus grade Pelemental Standard for AAS, ICP & ICP-MS	Wide range of Acids, Bases, Solvents & Reagents > For analysis grade Conform to Eur.Pharmacopeia	Wide range of Acids ,Bases, Solvents & Reagents > For research application Extra-pure & pure grade	<text><list-item><list-item></list-item></list-item></text>



### **Fisher Chemical Product labels**





#### What's about GHS

SYSTÈME GÉNÉRAL HARMONISÉ (GHS) GHS - le nouveau système de classification et d'étiquetage des produits chimiques dans l'Union européenne Introduction du Système Général Harmonisé (GHS) de classification et d'étiquetage des produits chimiques et de leurs mélanges dans l'Union européenne

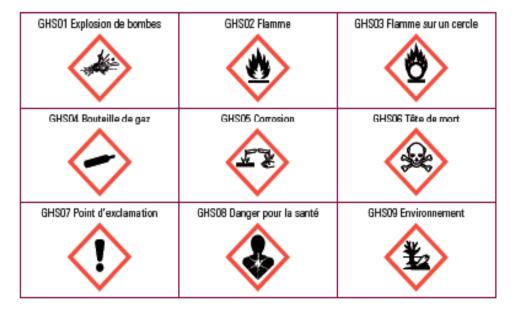
#### **NOUVELLE RÉGLEMENTATION GHS**

Le règlement (CE) n° 1272/2008 - désigné par les acronymes GHS ou CLP - est entré en vigueur le 20 janvier 2009.

Ce règlement régit la classification, l'étiquetage et l'emballage des substances et mélanges (l'acronyme anglais CLP correspond à « regulation on Classification, Labelling and Packaging of substances and mixtures ») et, à compter de 2015, remplacera en totalité la directive européenne 67/548/CEE relative aux substances et la directive 1999/45/CE relative aux préparations.

Le règlement CLP repose sur la recommandation de l'Organisation des Nations-Unies relative au « Système Général Harmonisé » (GHS-ONU, livre violet) dont l'origine remonte à la conférence sur le développement durable qui s'est tenue en 1992 à Rio de Janeiro (Agenda 21, chapitre 19).

Délais de mise en œuvre				
Étiquette	Ancien marquage	Nouveau marquage		
Substances	Autorisé jusqu'au 01.12.2010. (stocks : + 2 ans)	Autorisé depuis le 20.01.2009, obligatoire à partir du 01.12.2010		
Mélanges	Autorisé jusqu'au 01.06.2015. (stocks : + 2 ans)	Autorisé depuis le 20.01.2009, obligatoire à partir du 01.06.2015		
Fiche de données de sécurité	Ancienne classification	Nouvelle classification		
Substances	Obligatoire jusqu'au 01.06.2015	Autorisé depuis le 20.01.2009, obligatoire à partir du 01.12.2010		
Mélangas	Obligatoire jusqu'au 01.06.2015	Autorisé depuis le 20.01.2009, obligatoire à partir du 01.06.2015		





### What's about GHS



#### **COMMENT SE PRÉPARER AU NOUVEAU SYSTÈME ?**

Vous avez déjà commencé en consultant ce prospectus. Un guide sur le GHS fournit d'autres informations. Ce dernier a été publié par l'Office allemand de l'Environnement à l'automne 2007 (sur la base de du règlement CLP encore au stade de projet), afin de présenter les bases du nouveau règlement aux fabricants et formulateurs (voir lien vers le site Web ci-dessous).

Pour de plus amples informations nous vous conseillons de consulter le site officiel dédié par pays.

Pour information voici l'adresse du site BERPC français : http://www.reach-info.fr/



### Thermo Scientific & Fisher Chemical Synergy



#### **ThermoFisher** SCIENTIFIC

Chromatography : •HPLC, UPLC, UPLC-MS , LC-MS/MS & LC-ICP-MS Trace Metal Analysis • ICP-MS, ICP & AA

- SCIENTIFIC
- Technology & Innovation
- High-end analytical instruments, software, reagents, consumables
- Laboratory workflow solutions







# Global Chemicals LC/MS Solvent Installation Kit with Thermo SID equipment

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Launching from June 09

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Fig. 3. Mass background in negative mode of blank solvent sample using single quadrupole LCMS. Note that the Fisher Chemical solvent system produced the flattest baseline and the lowest background noise in TIC.

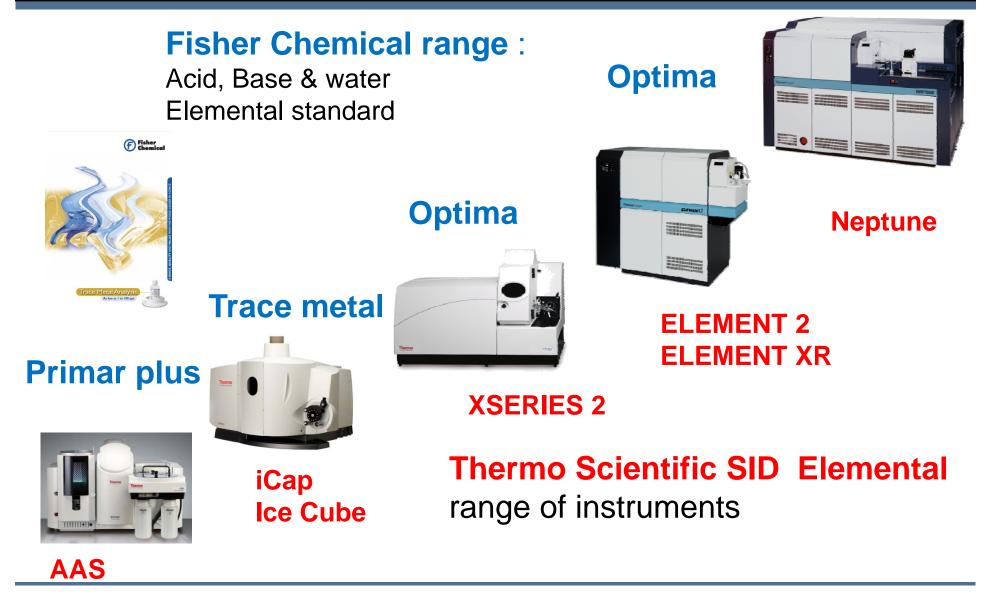
#### The Kit in the EcoSafPak includes:

- Solvents: Acetonitrile 1L; Methanol 1L; Water 1L; Isopropanol 1L
- Pretreated empty bottle with FisherLOCK<sup>TM</sup> Cap to prepare blends
- Brochures: Optima LCMS flyer + white paper





### Thermo SID Elemental – Fisher Chemical





# TRACE METAL ANALYSIS : Chemicals and Instruments

 Fisher Chemical Optima® : Highest purity level

tested up 60 parameters ,

#### as low as 100 ppt level detection

bottled in class 10 clean room condition pre-cleaned Teflon FEP & PFA (HCI & HF) individually double bagged in class 100 clean room each bottle is packaged individually with CoA







Element 2/XR Neptune

#### • Fisher Trace Metal® Grade

tested up 65 parameters

certified below one ppb level safety packaging PVC coated bottle bottled in class 10 clean room condition







XSeries 2

#### • Fisher Primar Plus ®

tested up to 40 parameters at **1 to 10 ppb** safety Coated glass bottle (even if the bottle breaks, the safety coating will remain intact )



AAS





#### Fisher Chemical – Traces Metal anlysis brochures available



Brochure available in all languages

#### Please contact your local Fisher Scientific organization



# The World Leader in Serving Science

Scale	<ul> <li>\$10+ billion in revenues</li> <li>33,000+ employees in 40 countries</li> <li>350,000 customers</li> <li>150 countries served</li> <li>Fortune 300 company</li> </ul>
Capabilities	<ul> <li>Complete portfolio</li> <li>World-class technologies</li> <li>Commercial and service strength</li> </ul>
<b>Brand Equity</b>	Two premier brands     Thermo SCIENTIFIC     SCIENTIFIC
Mission	<ul> <li>To enable our customers to make the world healthier, cleaner and safer</li> </ul>

