

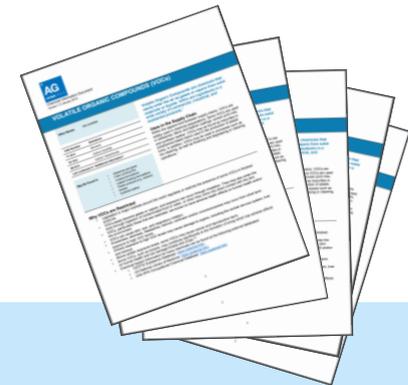
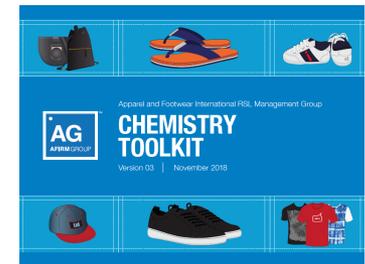
Interactive Session #1: Exploring AFIRM Tools and Resources

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Utilizing Tools for RSL Compliance

- Choosing and understanding tools and resources
 - Highlight strengths and weaknesses
 - Basis for dialogue with supplier relationships.
- This session will highlight 3 tools using three resources to improve how we comply with Restricted Substances.



Topic 1: Safety Data Sheet (SDS)

Safety Data Sheets –

- Should be part of standard documentation between suppliers and partners.
- Provides important information on safe manufacturing and handling of chemicals.

This exercise will review two (2) different examples of Safety Data Sheets.



Topic 1: Safety Data Sheet (SDS)

- What is important for you as a manufacturer to know when looking at the SDS?
- Is this a good SDS? Why or Why Not?
- Is there any missing key information?
 - If yes, explain what is missing and what type of information needs to be added.
- When reviewing the SDS examples – keep in mind your own processes for managing this information:
 - How is the SDS maintained?
 - Is it reviewed regularly for updates?
 - How is new information shared to relevant parties?



Topic 1: Safety Data Sheets (SDS)

EXAMPLE 1

物质安全资料表 (MSDS)

of the substance/preparation and company)
sneer cleaner

紧急电话 (Emergency phone/Fax):

制表日期 (Make Date): 2008年2月20日

文件编号 (Document No.)	FA0075020	版次 (Version)	2	文件类别 (Doc.Type)	
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二、成分详实资料 (Composition/Information on Ingredients)

混合物 (Mixture):

中英文名称 (English Name): 山由碱

别名名称 (Synonyms): /

化学文摘登记号码 (Chemical Abstracts Number [SCA NO.]): /

危险物质成分百分比 (Percentage for Chemical ingredients): ≤5%

混合物 (Mixing)

化学性质 (Chemical Character):

危险物质成分之中文名称 (Hazardous Components Name)	浓度或浓度范围 (成分百分比) (Concentration/Percentage)	危险物质分类及图示 (Hazards Symbols)
/	/	/

There is no chemical content information provided

三、危险识别资料 (Hazard Identification)

最严重危害效应 (Major Hazard Effect)

- 健康危害效应 (Hazard Warning for Health): 头痛 Headache 喉痛 Quinse 困倦 Mondayish 呕吐 Vomit
- 环境影响 (Hazard Warnings for Environment):
- 物理/化学危害 (Physical and Chemical Dangerous): 吞入有害健康 It's harm for health to ingest
- 特别危害 (Special Hazard):
- 主要状态 (Major State): 易燃 Flammable 刺激 Quinse 困倦 Mondayish 呕吐 Vomit
- 物品危害分类 (Hazard Category):

四、急救措施 (First Aid Measures):

不同暴露途径之急救方法 (Emergency and First Aid Procedures):

- 吸入 (Inhalation): 将患者移到空气新鲜处 Take the suffer to the place with fresh air.
- 皮肤接触 (Skin Contact): 用肥皂水冲洗 Wash with a gear deal of soaps
- 眼睛接触 (Eye Contact): 以大量清水冲洗并速送院治疗

EXAMPLE 2

DIRECTIVE (1907/2006/EC)

Replaces Edition from 24.10.2005

06.03.2008

06.03.2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Chemical description: Aqueous composition containing modified dimethyloldihydroxyethyleneurea and inorganic magnesium salt Amphoteric

Use of the substance/preparation: Textile chemical

Company/undertaking identification

Product responsibility: [Redacted]

Responsible department: Product EHS

Supplier: [Redacted]

Emergency telephone: [Redacted]

2. HAZARDS IDENTIFICATION

May cause sensitisation by skin contact

3. COMPOSITION / INFORMATION ON INGREDIENTS

Information on ingredients	Content	CAS-No.	Symbol	R-Phrases
- Diethylene glycol EC No. 203-872-2	5.0-7.5 %	111-46-6	Xn	22
- Formaldehyde EC No. 200-001-8	< 0.5 %	50-00-0	T	23/24/25-34-40-43
- Methanol EC No. 200-659-6	1.0-2.5 %	67-56-1	F,T	11-23/24/25-39/23/24/25

4. FIRST-AID MEASURES

Inhalation: Move to fresh air. Seek medical attention if you feel unwell or if exposure prolonged.

Skin contact: Remove contaminated clothing. Wash affected skin with soap and plenty

All relevant information is listed: Content, CAS, symbol, and R-Phrases



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Topic 1: SDS Wrap-Up

Key Points:

- Safety Data Sheets are reliant on a knowledgeable chemical supplier.
- Safety Data Sheets are an important part of information sharing with your supplier.
- The AFIRM Toolkit provides guidance on reviewing a Safety Data Sheet for key information that should be included.



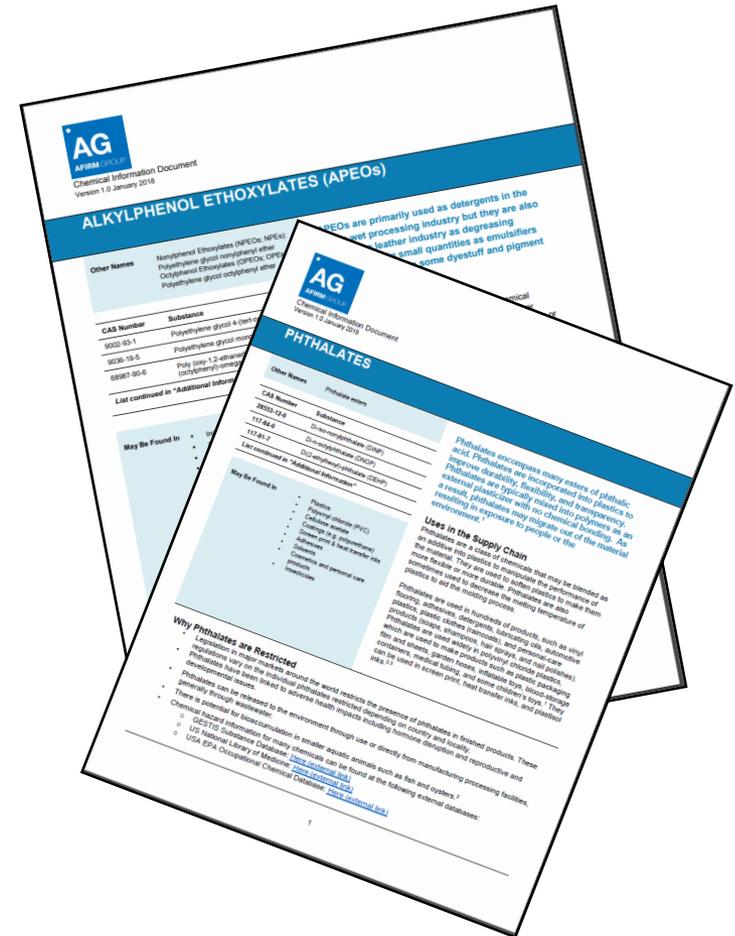
Topic 2: AFIRM Chemical Information Sheets

AFIRM Chemical Information Sheets:

- Introduced earlier today.
- There are 29 different information sheets on the AFIRM website.

This exercise allow us to review two additional AFIRM Chemical Information Sheets.

Review the Chemical Information Sheet provided and answer the questions in the next slide.



Topic 2: AFIRM Chemical Information Sheets

- Review the uses of this chemical in the supply chain. How is it used and what type of products could you find this in?
- Why is the chemical restricted? When does this risk occur (manufacturing? a consumer risk? End of Life (when the product is thrown away)?
- Discuss what safer alternatives are discussed in your chemical information sheet. How can you utilize this to improve future product?



Topic 2: AFIRM Chemical Information Sheets – Wrap Up

Key Points:

- AFIRM currently has Chemical Information Sheets for 29 different chemicals/chemical groups.
- Chemical Information Sheets are a valuable tool for:
 - understanding a restricted chemical,
 - educating partners about chemical concerns, and
 - finding solutions with your suppliers.



Topic 3: Problem Solution Prevention Library

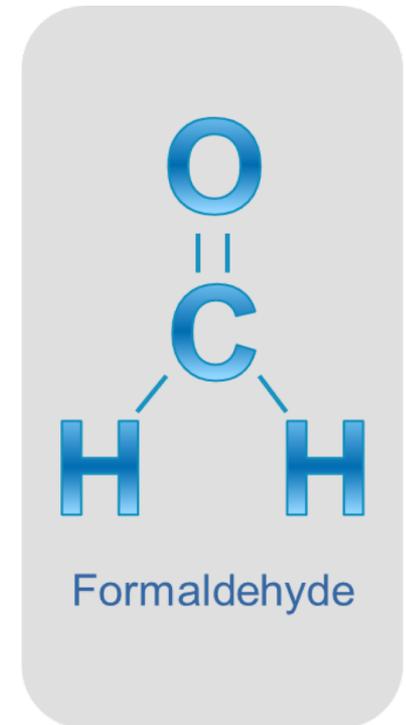
- The Problem Solution Prevention Library highlights known issues and corrective action plans.
- Our 3rd topic will focus on an excerpt from the Library.

DISCHARGE SCREEN PRINT	BASEBALL HAT	WRINKLED-FINISH T-SHIRT
<p>Problem</p> <p>Discharge screen print failed RSL limit for Formaldehyde.</p> <p>Many ink systems contain Formaldehyde to break down the color of the garment-dyed fabric.</p> <p>Root Cause</p> <ul style="list-style-type: none">• Printer found ink system was using Zinc Formaldehyde Sulfoxylate (ZFS) catalyst. <p>Corrective Actions</p> <ul style="list-style-type: none">• Printer worked with ink supplier to optimize printing concentrations and to find a Formaldehyde-free catalyst system for discharge prints.• Curing times and temperatures were kept consistent to meet RSL requirements. 	<p>Problem</p> <p>Backing fabric treated with resin stiffener failed the RSL limit for Formaldehyde.</p> <p>Urea Formaldehyde resins are common chemicals used in durable press resins.</p> <p>Corrective Actions</p> <ul style="list-style-type: none">• In the short term, caps were washed to reduce the amount of Formaldehyde.• Backing fabric was replaced with passing fabric for some of the hats.• No process control could be established to prevent Formaldehyde failure; new material was developed to meet standards.• Factory had not switched materials for all customers, so contamination from drying units needed to be monitored. 	<p>Problem</p> <p>Cotton t-shirt treated with resin stiffener failed the RSL limit for Formaldehyde.</p> <p>Urea Formaldehyde resins are common chemicals used in durable press resins to produce a wrinkled effect.</p> <p>Root Cause</p> <ul style="list-style-type: none">• Wrinkle finish was originally cured for too short a period of time and at a lower temperature than recommended. <p>Corrective Actions</p> <ul style="list-style-type: none">• In the short term, garments were washed to reduce the amount of Formaldehyde.• Processes were changed to improve durability and RSL compliance• Conditions were carefully controlled to manage finished product compliance. 

Topic 3: Problem Solution Prevention Library

Problem Solution Prevention Library: Lessons Learned about Formaldehyde

- What type of manufacturing treatments can lead to formaldehyde failures?
- What are some overarching issues that lead to some of these failures?
- What are some practices that you can do to prevent RSL failures for formaldehyde based on these lessons?



Topic 3: Problem Solution Prevention Library – Wrap Up

Key Points:

- RSL Failures can occur when there is a gap between process documentation and implementation.
- Review of raw materials is equally as important as reviewing and auditing your own processes to ensure compliance.
- Discussion between vendors and suppliers can identify key gaps in using some of these materials.



Concluding Remarks



LUNCH BREAK

LUNCH

12:00 – 13:00

Please enjoy some food and drink.
Presentations will continue afterward.



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