

NAPIM
Avoiding Hazcom GHS
Paralysis – A Roadmap to a
Successful Program
Part 2
March 2015

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Overview

- How to Develop a Plan of Attack
- What to do when you have an old MSDS but not the new SDS
- How to verify classifications
- Strategies for moving forward
- Do you need a consultant?
- Trade Secrets
- What is OSHA's Enforcement Policy
- Future Change

How to Develop a Plan of Attack

- Organize your products into groups of similar products
- Put the formulas into a spreadsheet or database where you can search them and manipulate the information
- Do you have a SDS/MSDS for every ingredient
- Fill in the gaps
- You can rely on the non-haz status from old MSDS until you get updated information – Generally what was not hazardous before will still be non-hazardous (there will be exceptions)

<u>RM #</u>	<u>Formula %</u>	<u>Description</u>	<u>MSDS Y/N</u>
1	13	Styrene Acrylic Emulsion	
2	2	Matting Agent	
3	0.2	Defoamer	
4	10	Water	
5	35	Styrene Acrylic Emulsion	
6	2.6	Glycol Ether EB	
7	21.9	Styrene Acrylic Emulsion	
8	5.5	Surfactant	
9	0.1	Defoamer	
10	8.5	Wax Emulsion	
11	1.2	Wax Emulsion	

Breakdown the Formula

- Review each raw material to determine the components
- Add them and the CAS to the Spreadsheet
- RM 1 is a Styrene Acrylic Emulsion at 13%



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<u>RM #</u>	<u>Formula %</u>	<u>Description</u>	<u>Component</u>	<u>Classification</u>
1	13	Styrene Acrylic Emulsion	99.9% Not Listed, 0.1% Ammonia 1336-21-6	Not Hazardous
2	2	Matting Agent		
3	0.2	Defoamer		
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8	5.5	Surfactant		
9	0.1	Defoamer		
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 2 is a Matting Agent present at 2%
- GHS SDS
- 100% Amorphous Silica
- Classified as Eye 2A and STOT SE 3 (resp irrit)



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8	5.5	Surfactant		
9	0.1	Defoamer		
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 3 is a Defoamer at 0.2%
- MSDS
- >75% Hydrotreated Paraffinic Distillate 64742-54-7
- Based on SDS, Possible eye and skin irritant
- From ECHA Registration – not hazardous



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ECHA Classification

General Information	General Information		
<ul style="list-style-type: none"> › Identification 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Not classified</td> <td style="text-align: center;">✔</td> </tr> </table>	Not classified	✔
Not classified	✔		
<ul style="list-style-type: none"> › Compositions 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Implementation</td> <td>other: EU in combination with self classification</td> </tr> </table>	Implementation	other: EU in combination with self classification
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Classification and Labelling			
<ul style="list-style-type: none"> › GHS 			
<ul style="list-style-type: none"> › Other Lubricant Base Oils (Annex VI) 			
<ul style="list-style-type: none"> › CLP 1. Other Lubricant Base Oils (IP 346 < 3%; > 20.5 mm²/s @ 40°C) 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">State / form of the substance</td> <td>liquid</td> </tr> </table>	State / form of the substance	liquid
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<ul style="list-style-type: none"> › DSD - DPD 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Explosives</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Explosives	conclusive but not sufficient for classification
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Manufacture, Use & Exposure	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Flammable gases</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Flammable gases	conclusive but not sufficient for classification
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PBT assessment	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Flammable aerosols</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Flammable aerosols	conclusive but not sufficient for classification
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Physical and chemical properties	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Oxidizing gases</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Oxidizing gases	conclusive but not sufficient for classification
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Environmental fate and pathways	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Gases under pressure</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Gases under pressure	conclusive but not sufficient for classification
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Ecotoxicological Information	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Flammable liquids</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Flammable liquids	conclusive but not sufficient for classification
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Toxicological information	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Flammable solids</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Flammable solids	conclusive but not sufficient for classification
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Guidance on safe use	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Self-reactive substances and mixtures</td> <td>conclusive but not sufficient for classification</td> </tr> </table>	Self-reactive substances and mixtures	conclusive but not sufficient for classification
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<u>RM #</u>	<u>Formula %</u>	<u>Description</u>	<u>Component</u>	<u>Classification</u>
1	13	Styrene Acrylic Emulsion	99.9% Not Listed, 0.1% Ammonia 1336-21-6	Not Hazardous
2	2	Matting Agent	Amorphous Silica 7631-86-9 100%	Eye 2A, STOT SE 3 (resp)
3	0.2	Defoamer	Hydrotreated paraffinic distillate 64742-54-7	Not Hazardous
4	10	Water		Not Hazardous
5	35	Styrene Acrylic Emulsion		
6	2.6	Glycol Ether EB		
7	21.9	Styrene Acrylic Emulsion		
8	5.5	Surfactant		
9	0.1	Defoamer		
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 5 is a Styrene Acrylic Emulsion at 35%
- MSDS
- Water 45-55%, Ammonium Salt of modified acrylic copolymers, polypropyleneglycol 25322-69-4, Ammonia <0.1%
- Based on SDS, Not Hazardous



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2	2	Matting Agent	Amorphous Silica 7631-86-9 100%	Eye 2A, STOT SE 3 (resp)
3	0.2	Defoamer	Hydrotreated paraffinic distillate 64742-54-7	Not Hazardous
4	10	Water		Not Hazardous
5	35	Styrene Acrylic Emulsion		Not Hazardous
6	2.6	Glycol Ether EB		
7	21.9	Styrene Acrylic Emulsion		
8	5.5	Surfactant		
9	0.1	Defoamer		
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 6 is Glycol Ether EB at 2.6%
- MSDS
- 2-Butoxyethanol 111-76-2
- Scary MSDS / ECHA Classification
 - Acute Tox 4 (all routes)
 - Oral rat LD50: 650-1746 mg/kg
 - Dermal rabbit LD50: 320 mg/kg,
 - Inhalation rat LC50: estimated LD50 of 3.7mg/1/1 hr (755ppm), 486 ppm/4hrs (2.2 mg/L)
 - Skin Irrit 2
 - Eye Irrit 2A



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3	0.2	Defoamer	Hydrotreated paraffinic distillate 64742-54-7	Not Hazardous
4	10	Water		Not Hazardous
5	35	Styrene Acrylic Emulsion		Not Hazardous
6	2.6	Glycol Ether EB	2-Butoxyethanol 111-76-2	Acute Tox 4, Eye 2A, Skin 2
7	21.9	Styrene Acrylic Emulsion		
8	5.5	Surfactant		
9	0.1	Defoamer		
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 7 is another Styrene Acrylate Emulsion at 21.9%



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- MSDS – Not Hazardous

- RM 8 is a Surfactant – Dioctyl Sodium Succinate

- Very old MSDS CAS 577-11-7

- ECHA Classification

- Skin 2, Eye 1



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- RM 9 is a Defoamer at 0.1%



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- Not relevant, since not send or CMR

<u>RM #</u>	<u>Formula %</u>	<u>Description</u>	<u>Component</u>	<u>Classification</u>
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3	0.2	Defoamer	Hydrotreated paraffinic distillate 64742-54-7	Not Hazardous
4	10	Water		Not Hazardous
5	35	Styrene Acrylic Emulsion		Not Hazardous
6	2.6	Glycol Ether EB	2-Butoxyethanol 111-76-2	Acute Tox 4, Eye 2A, Skin 2
7	21.9	Styrene Acrylic Emulsion		Not Hazardous
8	5.5	Surfactant	Docosate Sodium 577-11-7	Eye 1, Skin 2
9	0.1	Defoamer		Not Relevant
10	8.5	Wax Emulsion		
11	1.2	Wax Emulsion		

Breakdown the Formula

- RM 10 is a wax emulsion at 8.5%
 - Contains Glutaraldehyde and Sodium Metabisulfite each 0.1-1% = 0.085% in product – not relevant
 - MSDS – Not Hazardous



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- RM 11 is another Wax Emulsion
 - MSDS – Not Hazardous



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<u>RM #</u>	<u>Formula %</u>	<u>Description</u>	<u>Component</u>	<u>Classification</u>
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5	35	Styrene Acrylic Emulsion		Not Hazardous
6	2.6	Glycol Ether EB	2-Butoxyethanol 111-76-2	Acute Tox 4, Eye 2A, Skin 2
7	21.9	Styrene Acrylic Emulsion		Not Hazardous
8	5.5	Surfactant	Docosate Sodium 577-11-7	Eye 1, Skin 2
9	0.1	Defoamer		Not Relevant
10	8.5	Wax Emulsion	Glutaraldehyde 0.087%	Not Hazardous
11	1.2	Wax Emulsion		Not Hazardous

Overall Classification

- Eye 1 = 5.5%
- Eye 2A = 4.6
- STOT SE 3 = 2%
- Skin 2 = 8.1%
- Acute Toxicity

Oral 2.6/650 = 25,000 mg/kg

Dermal 2.6 / 320 = 12,500 mg/kg

Inhal 2.6/2.2 = 84.7 mg/L

$$\frac{100}{ATE_{mix}} = \sum_{n=i} \frac{C_i}{ATE_i}$$

Criteria for Acute Toxicity

Acute Toxicity	Cat. 1	Cat. 2	Cat. 3	Cat. 4	Cat. 5 (not Hazcom 2012)
Oral (mg/kg)	≤5	>5 - ≤50	>50 - ≤300	>300 - ≤2000	Criteria: ≤5000 • ≤5000 • Anticipated significant effects in human • Any mortality at class 4 • Significant clinical signs at class 4 • Indications from other studies
Dermal (mg/kg)	≤50	>50 - ≤200	>200- ≤1000	>1000- ≤2000	
Gases (ppm)	≤100	>100 - ≤500	>500- ≤2500	>2500- ≤20000	
Vapours (mg/l)	≤0.5	>0.5- ≤2.0	>2 - ≤10	>10 - ≤20	
Dust and mists (mg/l)	≤0.05	>0.05- ≤0.5	>0.5- ≤1.0	>1.0 - ≤5	

Skin Corrosion/Irritation – Mixtures Additivity

Table A.2.3: Concentration of ingredients of a mixture classified as skin Category 1 or 2 that would trigger classification of the mixture as hazardous to skin (Category 1 or 2)

Sum of ingredients classified as:	Concentration triggering classification of a mixture as:	
	Skin corrosive	Skin irritant
	Category 1	Category 2
Skin Category 1	≥ 5%	≥ 1% but < 5%
Skin Category 2		≥ 10%
(10 × Skin Category 1) + Skin Category 2		≥ 10%

Eye Damage/Irritation – Mixtures Additivity

Sum of ingredients classified as:	Concentration triggering classification of a mixture as:	
	Serious eye damage	Eye Irritation
	Category 1	Category 2/2A
Skin Category 1 + Eye Category 1	≥ 3%	≥ 1% but < 3%
Eye Category 2		≥ 10%
10 x (Skin Category 1 + Eye Category 1) + Eye Category 2		≥ 10%

Note: A mixture can be classified as 2B if all relevant ingredients are classified as 2B (NEW)

STOT SE Category 3

- Respiratory Irritation
 - Based mainly on human experience, supported by objective measurements, should be typical in exposed population – not sensitive individuals
- Narcotic Effects
 - CNS Depression, transient, animals or humans
- Mixtures
 - Same criteria as substances
 - Suggested cut-off value 20%
 - Respiratory irritation and narcotic effects classified separately
 - Ingredients additive unless evidence they are not.

Overall Classification/Label

GHS Classification: Eye Damage Category 1

Label Elements

Danger

Causes serious eye damage.



Wear eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

SDS

- Add Classification and Labeling to Section 2
- Section 3
 - Ingredients to list (Health Hazards present above cut-off concentrations)
 - 2-Butoxyethanol 111-76-2 2.6%
 - Docusate Sodium 577-11-7 5.5%
 - All others optional – may include “Non-Hazardous Resin and Wax Emulsions”

How to Verify Classifications

- Look for all sources of classifications
 - Check for REACH Registrations
 - Check e-Chem Portal
 - Google other supplier US and EU SDS
- Benefit of Being Proactive
 - Your supplier may be wrong – we are all new at this
 - Over-classification makes your products look bad
 - Under-classification may be a compliance or liability issue

Can I Count on the EU Classifications?

- Not Always

- OSHA expects us to follow IARC and NTP Classifications for Carcinogens

IARC List

<http://monographs.iarc.fr/ENG/Classification/index.php>

NTP List

<http://ntp.niehs.nih.gov/pubhealth/roc/roc13/index.html>

- In general use the self-classifications
- Be careful with the C&L Inventory Classifications

How can I tell if my SDS Complies

- Let's look at some that do not.

SECTION 2. HAZARDS IDENTIFICATION

WARNING!

EXPOSURE PREVENTION: PREVENT DISPERSION OF MISTS OR DUST!


RISK STATEMENTS:

R36/37/38	Irritating to eyes, respiratory system and skin.
R65	Harmful: may cause lung damage if swallowed.

SAFETY STATEMENTS:

S2	Keep out of the reach of children.
S23	Do not breathe gas, fumes, vapor, or spray.
S24	Avoid contact with skin.
S62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

SEE SECTIONS 8, 11 & 12 FOR TOXICOLOGICAL INFORMATION.



Classification

Aspiration toxicity	Category 1
Flammable aerosols	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

DANGER

Hazard Statements

May be fatal if swallowed and enters airways

Flammable aerosol



Appearance Clear

Physical state Aerosol

Odor Solvent

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Keep away from heat/sparks/open flames/hot surfaces. — No smoking

Do not spray on an open flame or other ignition source

Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

EMERGENCY PHONE NUMBER: (205) 555-1212

PRODUCT NAME: Acetone

CHEMICAL FAMILY:

CAS NUMBER: 67-64-1

SECTION II - HAZARDOUS IDENTIFICATION

GHS CLASSIFICATION:

Classification

Flammable Liquids	Category 2
Acute Toxicity, Oral	Category 4
Skin Corrosion/Irritation	Category 3
Serious Eye Damage/Eye Irritation	Category 2A
Serious Eye Damage/Eye Irritation	Category 2B

DANGER!

GHS LABEL:



Hazard Statements

H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H316	Causes mild skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation

Strategies for Moving Forward

- Doing Nothing is Not an Option
- Start with 1 or 2 Simple Formulations
- Prioritize by sales volumes
 - Customers will demand compliant SDS on time
- Put off products that sell rarely – you can do them after June 1 (before you fill an order)
- Products containing components you have no classifications for and cannot get – document and put aside until you get the information
- Update lists frequently – set a goal (1 SDS/day/week)

Do You Need Help?

- Consultants can help but most are very busy
- Consultants can be expensive but can get you started
- Consider have some “model” SDS done to get you started.
- Consider having raw material/substance classifications done
- Even administrative help can make a big difference

What About Trade Secrets

- OSHA's Policies have not changed
- Specific Chemical and Exact Percentage can be claimed trade secret
- Read the OSHA Standard – paragraph (i)
 - Must be able to support that the information is a trade secret
 - Must disclose all hazardous properties and effects
 - Must indicate that information is being withheld as a trade secret
 - Must make information available as required in regulation

What if I Cannot Meet June 1

- OSHA has issued an enforcement memo
- Compliance officers will not enforce if
 - Information from upstream RM supplier is not available
 - Mfg. has exercised “reasonable diligence and good faith” in attempting to obtain needed classification information
 - Will allow reasonable time to come into compliance
 - IF COMPLIANT WITH HAZCOM 1994

Supplier Obligations

- Upstream suppliers must send Hazcom 2012 SDS to customers when available
 - With next shipment
 - Immediately on request
- Failure to do so will be referred for enforcement

Reasonable Diligence / Good Faith

- Manufacturer must show substantial efforts to
 - Obtain classification/SDS from supplier
 - Find information themselves
 - Classify themselves based on data
- Documentation
 - (a) Develop and document process used to gather information from upstream suppliers and the status of such efforts;
 - (b) Develop and document efforts to find hazard information from alternative sources
 - (c) Provide written account of efforts (dates, copies etc.)
 - (d) Provide written account of continued dialogue with its distributors informing them why it has been unable to comply with HCS 2012; and,
 - (e) Develop the course of action it will follow to make the necessary changes to SDSs and labels.

Compliance Extension

- Manufacturer/Importer must update SDS and labels within 6 months of receiving the needed information
- Citations may be issued after that time
- Distributors must also document their efforts to obtain compliant SDS and label and on a cases-by-case basis may ship 1994 labeled product until December 1, 2017 (SDS send immediately after receipt)
- Policy will not extend more than 2 years

Customer Demand

- The biggest driver for compliance will be customers
- May refuse products with old labels after 6/1/15
- May demand compliant SDS for sale
- Communicate with customers

Future Change

- When you get new SDS, you will have to review your classifications and affects on SDS and labels
- SDS must be updated in 3 months after significant new information
- Labels updated within 6 months
- Change will continue or accelerate
 - REACH last registration date 6/1/2018
 - Korea, China and Taiwan have mini-REACH
 - TSCA Reform
- SDS work is never finished

Other Issues

- Some manufacturers holding new SDS/labels to avoid looking bad.
- What to do with inventory in-house after June 1 and new SDS and labels are available?
- Communicating change to your customers
 - Communicate big changes before the SDS arrives
 - Encourage them to inform themselves and workers

Canada WHMIS 2015

- Hazardous Products Regulations Published February 11, 2015
- Effective Immediately
- Transition period ends for manufacturers June 1, 2017
- Transition period ends for distributors June 1, 2018
- Transition period ends for employers December 1, 2017

		Manufacturers and Importers	Distributors	Employer
Phase 1	From February 11, 2015 until Phase 2	WHMIS 1988 or WHMIS 2015	WHMIS 1988 or WHMIS 2015	WHMIS 1988 or WHMIS 2015*
Phase 2	From June 1, 2017 until Phase 3	WHMIS 2015	WHMIS 1988 or WHMIS 2015	WHMIS 1988 or WHMIS 2015*
Phase 3	From June 1, 2018 to Completion	WHMIS 2015	WHMIS 2015	WHMIS 1988 or WHMIS 2015*
Completion	December 1, 2018	WHMIS 2015	WHMIS 2015	WHMIS 2015*

Overview of HPR

- Adopts Rev 5 of the GHS (other than aerosols)
- Very similar to US adoption
- Additional Hazards Covered
 - Biohazardous
 - PHNOC and HHNOC
- Labeling
 - Refers to the GHS Annex 3 for label elements except Canada specific hazards

Overview of HPR

- SDS Format same as US/GHS
- Information in Sections 12-15 will not be enforced
- Labels and SDS must be bilingual
- Regulation contains small container exemptions
- For more information
- <http://www.hc-sc.gc.ca/ewh-semt/occup-travail/whmis-simdut/ghs-sgh/classification/hazardous-products-produits-dangereux/index-eng.php>

Canada Trade Secrets

- To avoid disclosure of the identity of a hazardous ingredient – must file for exemption
- Must submit claim form, SDS and fee
- Canada requires the actual concentration or concentration range for hazardous ingredients
- Can add the concentration to a CBI claim now
- Section 3 disclosure requires disclosure of components that are
 - Health Hazards
 - Present above the concentration limit or
 - Present in a concentration that results in classification

Thank You

Questions?

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