



## Detergent Industry Network for CLP Classification

CLASSIFICATION RECORD	
Skin/Eye Hazard Classification of Laundry/Home Care Products	
GENERAL INFORMATION	
Company	Company X
Mixture Name	General Purpose Cleaner
Product category	All purpose cleaner
Mixture number	APC009
PHYSICAL/ CHEMICAL PROPERTIES	
Physical form	Free flowing liquid
pH <sup>1</sup>	3.5
Acid / Alkaline reserve <sup>2</sup>	Not needed since pH is not extreme
Other relevant information <sup>3</sup>	Young et al.: no data
CLASSIFICATION	
Classification according to CLP criteria (skin/eye hazards)	<b>Skin:</b> Not classified as hazardous to skin <b>Eye:</b> Not classified as hazardous to eyes
Method used to derive Classification	<b>Skin:</b> CLP additivity approach <b>Eye:</b> Weight of Evidence with Expert Judgement
APPROVAL	
Classification derived by	O. Popolga
Classification completed	2016-09-29
Classification logged on DetNet website	2016-09-29
Classification logging number	DetNet/1234 (logging number as an example only)

1. neat liquid or 10% solution powders

2. Young et al method; expressed as grams NaOH [equivalent] per 100g test material

3. e.g. result of Young et al method calculation if applicable

Example 1

## Supporting Data / Justification Skin

Additivity Approach: Assessment of the new mixture APC009 on the basis of existing toxicological information on data for the individual ingredients.

- The pH of the new mixture APC009 is in the range:  $2 < \text{pH} < 11.5$ ; therefore the pH is not extreme and in consequence no need to consider a classification as corrosive due to pH. Therefore no need to determine the acidic reserve of the new mixture.
- The new mixture APC009 does not contain any ingredient classified as Skin Corrosion Cat. 1 thus the new mixture is not Skin Corrosion Cat. 1
- The classification of the new mixture APC009 is based on the CLP additivity approach. The total percentage of Skin Irritation Cat. 2 ingredients in the new mixture is less than 10% (default concentration limit for Skin Irritation Cat. 2). The new mixture APC009 therefore is not classified as hazardous for skin.

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## Mixture Comparison Chart Skin

ID	Ingredient	CAS numbers	Skin Classification	Untested Mixture	TM Example 1
Anionic surfactant					
6	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1	Skin Irritation Cat. 2	2.5	4
Nonionic surfactant					
1019	Fatty Alcohol (C12-18) ethoxylate 7EO	68213-23-0	Not classified as hazardous to skin	1	2
Soap					
1008	Fatty acids, palm kernel-oil, sodium salts	61789-89-7	Not classified as hazardous to skin	0.5	1
Organic acid					
242	Citric acid	77-92-2	Not classified as hazardous to skin	2	3
Polycarboxylate/ Polymer					
3259	Viscosity modifier (not classified as hazardous for skin & eye)	n.a.	Not classified as hazardous to skin	1	2.2
Perfume					
2221	Perfume (not classified as hazardous for skin & eye)	n.a.	Not classified as hazardous to skin	0.15	0.2
Preservative					
3258	Preservative NOS	n.a.	Not classified as hazardous to skin	0.1	0.2
Minor					
1029	Water	7732-18-5	Not classified as hazardous to skin	92.75	87.4

### Notes:

A table to justify Skin Irritation as not being classified by applying the CLP additivity approach is not part of a DetNet classification record (as no Tested Mixtures is selected)  
 The Specific concentration limits (SCL) are not part of a DetNet classification record.

Example 1

## Supporting Data / Justification Eye

- The pH of the new mixture APC009 is in the range:  $2 < \text{pH} < 11.5$ ; therefore the pH is not extreme and in consequence no need to consider a classification as corrosive due to pH. Therefore no need to determine the acidic reserve of the new mixture.
- One Tested Mixture ("TM example1") has been identified and selected, that is similar in composition to the new mixture and was tested by OECD 438 (ICE) + histopathology.
- The surfactants (Sulfuric acid, mono-C12-18-alkyl esters, sodium salts and Fatty Alcohol (C12-18) ethoxylate 7EO) in the new mixture APC009 and the TM example 1 are the same and have the same hazard category for effects on eyes. The ratio of anionic and non-ionic surfactant in the new mixture and the TM example 1 is not identical, but similar . The total surfactant concentration in APC009 (3.5 %) is lower compared to the TM example 1 (6%).
- All other ingredients contained are either not relevant to this toxicological endpoint or below the generic cut-off values.
- For above mentioned reason both mixtures are considered to be sufficiently similar with respect to their composition. The new mixture APC009 is more dilute (diluent water) with regards to the amount of surfactants and acid. The new mixture is therefore assumed to be in the same hazard category as the TM example 1.
- Tested Mixture example 1: tested for effect on eyes: OECD TG 438 (Isolated Chicken Eye test): Not classified

The ratio of dilution is not the same for all substances. By expert judgement it is not to be expected, that an irritating effect on eyes in the new diluted mixture would be more severe than in the tested mixture example 1.

Taking into account all available data, the proposed classification for the new mixture APC009 by expert judgment compared with tested mixture example 1 is: not classified as hazardous to eyes.

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## Mixture Comparison Chart Eye

ID	Ingredient	CAS numbers	Eye Classification	Untested Mixture	TM Example 1
Anionic surfactant					
6	Sulfuric acid, mono-C12-18-alkyl esters, sodium salts	68955-19-1	Serious Eye Damage Cat. 1	2.5	4
Nonionic surfactant					
1019	Fatty Alcohol (C12-18) ethoxylate 7EO	68213-23-0	Serious Eye Damage Cat. 1	1	2
Soap					
1008	Fatty acids, palm kernel-oil, sodium salts	61789-89-7	Not classified as hazardous to eyes	0.5	1
Organic acid					
242	Citric acid	77-92-2	Eye Irritation Cat. 2	2	3
Polycarboxylate/ Polymer					
3259	Viscosity modifier (not classified as hazardous for skin & eye)	n.a.	Not classified as hazardous to eyes	1	2.2
Perfume					
2221	Perfume (not classified as hazardous for skin & eye)	n.a.	Not classified as hazardous to eyes	0.15	0.2
Preservative					
3258	Preservative NOS	n.a.	Serious Eye Damage Cat. 1	0.1	0.2
Minor					
1029	Water	7732-18-5	Not classified as hazardous to eyes	92.75	87.4

**Notes:**

The Specific concentration limits are not part of a DetNet classification record.

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## Summary of data for TM example 1:

Product Form: Free flowing liquid	Product Category: All purpose cleaner
pH: 3.0	Acid/Alkaline Reserve: 0
Skin Classification: Not Tested	Eye Classification: Not classified as hazardous to eyes AISE_example 1_summary_OECD438 plus histopath.pdf