# **SAFETY DATA SHEET**

## According to EC Regulation 1907/2006 (REACH), Attachment II

Date of issue: 13/09/1994 Last change: 25/03/2014

## **Aquarius Pava (Base)**

#### 1.1 Product identifier

**Product name** : Aquarius Pava BASE (Part A)

**EC number** : 500-033-5 **CAS number** : 25068-38-6

**REACH Registration number** : 01-2119456619-26-0002

**Product type** : Epoxy Resin

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### **Industrial use**

Identified use	Process Category (PROC)	Sector of Use (SU)	Environmental Release Category (ERC)*
ES BADGE 1.1S			
Industrial manufacturing including synthesis of the substance and blending, or use as an intermediate or monomer in reactions by the manufacturer or DU.	PROC 1 PROC 2 PROC 3	SU 3 SU 8 SU 9 SU 11 SU 12	mERC 1.1 mERC 1.2
ES BADGE 1.2S	<u> </u>		
Industrial manufacturing including synthesis of the substance and blending, or use as an intermediate or monomer in reactions by the manufacturer or DU.	PROC 4 PROC 8a PROC 8b PROC 9	SU 3 SU 8 SU 9 SU 11 SU 12	mERC 1.1 mERC 1.2
ES BADGE 2.1S			
Industrial processes for blending or formulation into a mixture, and packaging of the product or mixtures, including transfers of material or mixtures between vessels, containers and/or shipping tanks. This includes dedicated as well as non-dedicated facilities. This ES covers the activities of most or all of our direct customer DU"s.  ES BADGE 3.1S		SU 3 SU 10	mERC 1.2

Industrial processes for use and end use in	PROC 5	SU 1	mERC 1.2
manufacture of an article or finished product,	PROC 6	SU 2a	
including mixtures and formulations. This	PROC 7	SU 2b	
includes also blending or formulation into a	PROC 8a	SU 3	
mixture, and packaging of the product or	PROC 8b	SU 5	
mixtures as well as packaging into small	PROC 9	SU 6a	
containers for whole sale or retail sales,	PROC 10	SU 6b	
including transfers of material or mixtures	PROC 13	SU 7	
between vessels, containers and/or shipping	PROC 14	SU 8	
tanks for both dedicated and non-dedicated	PROC 15	SU 9	
facilities.	PROC 16	SU 10	
	PROC 19	SU 11	
		SU 12	
		SU 13	
		SU 15	
		SU 16	
		SU 17	
		SU 18	
		SU 19	
		SU 23	
		SU 24	

#### Professional use

Identified use	Process Category (PROC)	Sector of Use (SU)	Environmental Release Category (ERC)*
ES BADGE 3.2S			
Professional uses and end uses of an article or	PROC 5	SU 1	mERC 1.2
product, including mixtures, formulations and	PROC 6	SU 5	
transfers of material or mixtures between	PROC 8a	SU 6a	
containers and packaging into containers for	PROC 8b	SU 6b	
whole sale or retail sales.	PROC 9	SU 7	
	PROC 10	SU 8	
	PROC 11	SU 9	
	PROC 13	SU 10	
	PROC 14	SU 11	
	PROC 15	SU 12	
	PROC 16	SU 13	
	PROC 19	SU 15	
	PROC 20	SU 16	
		SU 17	
		SU 18	
		SU 19	
		SU 22	
		SU 24	

The Environmental Release Category also includes mERC (modified ERC) and spERC (specific ERC)

See Section 16 for the full text of the PROCs, SUs and ERCs declared above.

## 1.3 Details of the supplier of the safety data sheet

**Manufacturer, importer, supplier**: Pava Resine Srl

Via Dolomiti, 6/1

35018 S. Martino di L. (PD)

**ITALY** 

Contact person info@pavaresine.it

General Information: **Telephone** 

+39 049 5953085

**REACH Reg. Legal Entity** : Momentive Specialty Chemicals B.V.

Seattleweg 17, Building 4,

3195 ND Pernis - Rotterdam, Netherlands

1.4 Emergency telephone number

**Supplier** 

Telephone number : CARECHEM24

+39 049 5953085

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Skin Corr./Irrit. 2 H315 Eye Dam./Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Chronic 2 H411

#### Classification according to Directive 67/548/EEC [DSD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification Xi, R36/38

R43 N, R51/53

See Section 16 for the full text of the R phrases or H statements declared above.

#### 2.2 Label elements

**Hazard pictograms** 

Signal word Warning

**Hazard statements** Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

**Prevention** Wear protective gloves.

> Wear eye or face protection. Avoid release to the environment.

Response IF IN EYES:

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage** Not applicable. **Disposal** 

: Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** 

: reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

Supplemental label elements

Not applicable.

#### 2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

No.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Not available

Other hazards which do not result in classification

None known.

# **SECTION 3: Composition/information on ingredients**

**Substance/mixture** : Mono-constituent substance

Product/ingredient name	Identifiers	% by weight	<u>Classi</u> 67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	RRN: 01- 2119456619-26 EC:500-033-5 CAS: 25068-38- 6 Index:603-074- 00-8	<80	Xi; R36/38 R43 N; R51 R53	Skin Corr./Irrit. 2, H315 Eye Dam./Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[A]

#### **Type**

- [A] Constituent
- [B] Impurity
- [C] Stabilizing additive

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

See Section 16 for the full text of the R phrases or H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses.

Continue to rinse for at least 10 minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact**: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes.

Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. Remove victim

to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

belt or waistband.

**Protection of first aid personnel**: No action shall be taken involving any personal risk or without

suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: Irritating to mouth, throat and stomach.

#### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering redness

Adverse symptoms may include the following:

pain or irritation

watering redness Inhalation : No specific data.
No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation redness

Adverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data.

No specific data.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, fog or foam. Use an extinguishing agent suitable for

the surrounding fire.

**Unsuitable extinguishing media** : Do not use water jet. None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds

#### **5.3** Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information

## **SECTION 6: Accidental release measures**

#### **6.1** Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

#### For emergency responders

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### **6.2** Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### 6.3 Methods and materials for containment and cleaning up

#### Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

#### **6.4** Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### **Protective measures**

: Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry,

cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### **7.3** Specific end use(s)

**Recommendations** : Not available **Industrial sector specific** : Not available

solutions

## **SECTION 8: Exposure controls/personal protection**

#### **8.1** Control parameters

#### Occupational exposure limits

No exposure limit value known. **Recommended monitoring procedures** 

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

Product/ingredie	Туре	Exposure	Value	Population	Effects
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Short term Dermal	8.3 mg/kg bw/day	Workers	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Short term Inhalation	12.3 mg/m <sup>3</sup>	Workers	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight	DNEL	Long term Dermal	8.3 mg/kg bw/day	Workers	Systemic

≤ 700)					
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	DNEL	Long term Inhalation	12.3 mg/m³	Workers	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	DNEL	Short term Dermal	3.6 mg/kg bw/day	General	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Short term Inhalation	0.75 mg/m <sup>3</sup>	General	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	DNEL	Short term Oral	0.75 mg/kg bw/day	General	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	DNEL	Long term Dermal	3.6 mg/kg bw/day	General	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	DNEL	Long term Inhalation	0.75 mg/m³	General	Systemic
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL	Long term Oral	0.75 mg/kg bw/day	General	Systemic

DNEL/DMEL Summary

: Not available

## **PNECs**

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
reaction product:	PNEC	Fresh water	3 μg/l	
bisphenol-A-				
(epichlorhydrin); epoxy				
resin (number average				
molecular weight ≤ 700)				

reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Marine	0.3 μg/l
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Sewage Treatment Plant	10 mg/l
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Fresh water sediment	0.5 mg/kg dwt
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Marine water sediment	0.5 mg/kg dwt
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Sediment	0.05 mg/kg dwt
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	PNEC	Intermittent Releases	0.013 mg/l

PNEC Summary : Not available

#### Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)

#### **Explanatory note:**

REACH requires manufacturers and importers to establish and report "Derived No-Effect Levels" (DNEL's) for humans by inhalation, ingestion and dermal routes of exposure and "Predicted No-Effect Concentrations" (PNEC"s) for environmental exposure. DNEL's and PNEC's are established by the registrant without an official consultation process, and are not intended to be directly used for setting workplace or general population exposure limits. They are primarily used as input values in running Quantitative Risk Assessment models (like the ECETOC-TRA model).

Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health-based OEL for that chemical substance. Further although DNEL"s (and PNEC"s) are an indication for setting risk reduction measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed governmental OEL"s.

#### **8.2** Exposure controls

#### **Appropriate engineering controls**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Individual protection measures**

#### Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to

remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

#### **Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved

standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the

gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures

should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this

product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying

with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

**Environmental exposure controls**: Emissions from ventilation or work process equipment should be

Not available

checked to ensure they comply with the requirements of

environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be

necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

#### **Appearance**

Physical state : Liquid Color : Not available

Odor : Not available
Odor threshold : Not determined

**pH** : 7

Melting point/freezing point : Not determined

Initial boiling point and boiling

range

Flash point :  $150 \, ^{\circ}\text{C}$ 

**Evaporation rate** : Not determined

Upper/lower flammability or

explosive limits

Lower: Not determined Upper: Not determined

**Vapor pressure** : 0.01 Pa @ 20 °C

Vapor density : Not determined

**Relative density** : 1.160 @ 25 °C

**Solubility(ies)** : Not available

**Solubility in water** : 0.009 kg/m 3 @ 23 °C

Partition coefficient: n-

octanol/water

: 3

**Auto-ignition temperature** : 300 °C

**Decomposition temperature** : Not available

**Viscosity** : **Dynamic:** 10 - 12 Pa·s @ 25 °C (ASTM D-445)

Kinematic: Not available

Explosive properties : Not available
Oxidizing properties : Not determined

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : Stable under normal conditions.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous

reactions

Hazardous reactions or instability may occur under certain

conditions of storage or use.

10.4 Conditions to avoid : No specific data. Caustic soda (sodium hydroxide) can induce

vigorous polymerisation at temperatures around 200 °C.

**10.5 Incompatible materials** : No specific data. Reactive or incompatible with the following

materials: strong oxidizing agents,

sodium hydroxide,

**10.6** Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)				
	LD50 Oral	Rat	11,400 mg/kg	-
Remarks - Oral:	Not acutely toxic	in multiple mouse and	1 rat studies, $LD50 > 2$	2000 mg/kg of body
	weight.			
Remarks - Inhalation:	Due to the very low vapor pressure, saturated atmosphere = 0.008 ppb,			
	meaningful acute inhalation studies could not be conducted.			
Remarks - Dermal:	In a rat OECD no. 402 study the dermal LD50 was > 2000 mg/kg. In multiple			
	rabbit acute dermal studies the LD50 was > 2000 mg/kg. One rabbit study			
	reported an LD50 value of 23 grams/kg.			

Conclusion/Summary : Not available

### **Acute toxicity estimates**

Not available

## **Irritation/Corrosion**

Result	Species	Score	Exposure	Observation
Skin -	Rabbit	1.5 - 2		-
Erythema/Eschar				
404 Acute Dermal				
Irritation/Corrosion				
Skin - Edema 404	Rabbit	1.0 - 1.5		-
Acute Dermal				
Irritation/Corrosion				
eyes 405 Acute	Rabbit	0		-
Eye				
Irritation/Corrosion				
eyes - Redness of	Rabbit	0.7		-
the conjunctivae				
Skin - Moderate	Rabbit		24 hrs	=
irritant				
Skin - Severe	Rabbit		24 hrs	-
irritant				
eyes - Mild irritant	Rabbit			-
	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion Skin - Edema 404 Acute Dermal Irritation/Corrosion eyes 405 Acute Eye Irritation/Corrosion eyes - Redness of the conjunctivae Skin - Moderate irritant Skin - Severe irritant	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion Skin - Edema 404 Acute Dermal Irritation/Corrosion eyes 405 Acute Eye Irritation/Corrosion eyes - Redness of the conjunctivae Skin - Moderate irritant Skin - Severe irritant	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion Skin - Edema 404 Acute Dermal Irritation/Corrosion eyes 405 Acute Eye Irritation/Corrosion eyes - Redness of the conjunctivae Skin - Moderate irritant Skin - Severe irritant  Rabbit 1.5 - 2  1.5 - 2  Rabbit 0 - 1.5  Rabbit 0 - 1.5  Rabbit 0 - 1.5	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion Skin - Edema 404 Acute Dermal Irritation/Corrosion eyes 405 Acute Eye Irritation/Corrosion eyes - Redness of the conjunctivae Skin - Moderate irritant Skin - Severe irritant  Rabbit 1.5 - 2  1.0 - 1.5  Rabbit 0  0  24 hrs

Conclusion/Summary

Skin: Not availableeyes: Not availableRespiratory: Not available

## Sensitization

Product/ingredient name	Route of exposure	Species	Result
reaction product: bisphenol-	Skin	-	-
A-(epichlorhydrin); epoxy			
resin (number average			
molecular weight ≤ 700)			
Remarks:	In an OECD No. 429 mouse LLNA study the estimated EC3 was a		
	concentration of 5.7% suggesting	that BADGE is a r	noderate skin sensitizer in
	this test system. In an OECD No. 406 guinea pig Maximization study BADGE		
	induced positive dermal reaction in 100% of the test animals at a 50%		
	concentration challenge dose. Therefore, BADGE is an "Extreme" skin		
	sensitizer under the conditions of this study. BADGE was also positive for		
	skin sensitization in an OECD No	o. 406 guinea pig B	uehler method study.

Conclusion/Summary

Skin: Not availableRespiratory: Not available

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
reaction product: bisphenol-	-	; -	-
A-(epichlorhydrin); epoxy			
resin (number average			
molecular weight $\leq 700$ )			
Remarks:	BADGE induced gene-mutation i	n Ames/Salmonella	tester strains TA1535 and
	TA100 in multiple studies. Gener	ally, mutagenic acti	vity was greater without
	liver S9 metabolic activation. Ind	uced gene-mutation	in L5178Y mouse
	lymphoma cells. Induced gene-m	utation and chromo	some damage in Chinese
	hamster V79 cells. Induced cell tr	ransformation in Sys	rian hamster BHK cells
	based on clonal growth in soft agar. Did not induce evidence of chromosome		
	damage in a mouse dominant lethal oral gavage study conducted up to a high		
	dose level of 10 grams/kg and in a mouse micronucleus test conducted up to a		
	high dose of 5000 mg/kg. Negative in a male mouse spermatocyte cytogenetic		
	assay with treatment for 5 days by	y oral gavage up to	a high dose of 3000
	mg/kg. Did not induce an increase in the frequency of chromosome damage in		
	a Chinese hamster bone marrow cytogenetic test by oral gavage up to a high		
	dose of 3300 mg/kg. Failed to induce an increase of DNA strand breaks in rat		
	liver cells following oral gavage treatment with 500 mg/kg as measured by		
	alkaline elution.		
G 1 1 /G	37 . 21.11		

Conclusion/Summary

: Not available

## Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A-		=		
(epichlorhydrin); epoxy resin				
(number average molecular				
weight $\leq 700$ )				
Remarks:	In a rat oral gavage OECD no. 453 study there was no evidence of			
	carcinogenicity up to the high dose level of 100 mg/kg/day. OECD Test			
	Guideline no. 453 dermal exposure studies were conducted on male mice			
	and female rats. No evidence of carcinogenicity was observed in male			
	mice treated up to the high dose of 100 mg/kg/day and female rats exposed			
	up to a high dos	e level of 1000 m	g/kg/day.	

Conclusion/Summary

Not available

## **Reproductive toxicity**

Conclusion/Summary

: Not available

## **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
reaction product: bisphenol-A-		=	-	-
(epichlorhydrin); epoxy resin				
(number average molecular				
weight $\leq 700$ )				
Remarks:	BADGE did not	t induce any evidence	ce of developme	ent toxicity in rats and
	rabbits exposed	by oral gavage or in	n rabbits treated	l by the dermal route in
	OECD Test Gui	deline no. 414 GLP	studies. The or	ral gavage studies were
	conducted up to	a high dose level of	f 180 mg/kg/da	y that produced maternal
	toxicity base on	decreased body we	ight gain. The r	abbit dermal study was
	conduced up to	a high dose of 300 i	mg/kg/day that	induced maternal
	toxicity based o	n reduced body wei	ght gain.	

Conclusion/Summary

Not available

#### Specific target organ toxicity (single exposure)

Not available

#### **Specific target organ toxicity (repeated exposure)**

Not available

#### **Aspiration hazard**

Not available

**Information on the likely routes** 

of exposure

Not available

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Causes skin irritation. May cause an allergic skin reaction.

**Ingestion**: Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:

pain or irritation

watering

rednessAdverse symptoms may include the following:

pain or irritation

watering redness

Inhalation : No specific data. No specific data.

**Skin contact** : Adverse symptoms may include the following:

irritation

rednessAdverse symptoms may include the following:

irritation redness

**Ingestion** : No specific data. No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate effects : Not available
Potential delayed effects : Not available

#### Long term exposure

Potential immediate effects: Not availablePotential delayed effects: Not available

#### Potential chronic health effects

Conclusion/Summary : Not available

General : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.Teratogenicity: No known significant effects or critical hazards.Developmental effects: No known significant effects or critical hazards.Fertility effects: No known significant effects or critical hazards.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
reaction product: bisphenol-A-	(epichlorhydrin); epoxy resin (number ave	erage molecular weight ≤ '	700)
	Acute LC50 1.3 mg/l - 203 Fish,	Fish - Fish	96 h
	Acute Toxicity Test		
	Acute EC50 2.1 mg/l - 202 Daphnia	Aquatic invertebrates.	48 h
	sp. Acute Immobilization Test and	Water flea	
	Reproduction Test		
	Acute NOEC 0.3 mg/l - 211 Daphnia	Aquatic invertebrates.	21 d
	Magna Reproduction Test	Water flea	
	Acute LC50 > 11 mg/l -	Aquatic plants - Algae	72 h

Conclusion/Summary : Not available

#### 12.2 Persistence and degradability

Product/ingredient	Test	Result	Dose	Inoculum	
name					
reaction product:		-			
bisphenol-A-					
(epichlorhydrin);					
epoxy resin (number					
average molecular					
weight $\leq 700$ )					
Remarks:	The level of biodegradation in an "enhanced" OECD 301F study was 5% within the				
	28 day contact period. Biodegradation reached 6 - 12 % after 28 days of contact in an				
	OECD test guideline no. 301B study. Therefore, BADGE is not readily				
	biodegradable under the conditions of the studies.				

Conclusion/Summary : Not available

### **12.3** Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A-	2.64 - 3.78	3 - 31 31.00	high
(epichlorhydrin); epoxy resin			
(number average molecular weight			
$\leq 700$ )			
EPIKOTE™ Resin 828 LVEL	3	-	high

#### **12.4** Mobility in soil

**Soil/water partition coefficient** : Not available

(KOC) Mobility

: Not available

12.5 Results of PBT and vPvB assessment

**PBT** : P: Not available

B: Not available

T: No.

**vPvB** : vP: Not available

vB: Not available

#### **12.6** Other adverse effects

: No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

The classification of the product may meet the criteria for a hazardous waste.

#### **Packaging**

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

Regulatory information ADR	<b>14.1. UN number</b> 3082	14.2. UN proper shipping name  ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	14.3. Transport hazard class(es) 9	14.4. Packing group III
RID	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	9	Ш
ICAO/IATA	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	9	III
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	9	III

#### 14.5. Environmental hazards



#### 14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage."

Yes.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

**Substances of very high concern** 

<u>Carcinogen</u>: Not listed <u>Mutagen</u>: Not listed

Toxic to reproduction: Not listed

PBT: Not listed
vPvB: Not listed

#### **Other EU regulations**

REACH Status: The substance(s) in this product has (have) been Pre-Registered

and/or Registered, or are exempted from registration, according to

Regulation (EC) No. 1907/2006 (REACH).

**Aerosol dispensers** : Not applicable. **Annex XVII - Restrictions on the** : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure

(Annex I - Part 1)

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure

(Annex I - Part 2)

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure (Annex I - Part 3)

Not listed

Not listed

Not listed

### **Seveso II Directive**

This product is controlled under the Seveso II Directive.

#### Danger criteria

#### Category

E2: Hazardous to the aquatic environment - Chronic 2

C9ii: Toxic for the environment

#### **National regulations**

#### **International regulations**

International lists

: Australia inventory (AICS) All components are listed or exempted.

Canada inventory All components are listed or exempted. Japan inventory All components are listed or exempted.

China inventory (IECSC) All components are listed or exempted.

Korea inventory All components are listed or exempted.

New Zealand Inventory (NZIoC) All components are listed or exempted. Philippines inventory (PICCS) All components are listed or exempted. United States inventory (TSCA 8b) All components are listed or exempted.

Taiwan inventory (CSNN) Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** 

: Not listed

**Chemical Weapons Convention** 

Not listed Not listed

**List Schedule II Chemicals** 

: Not listed

**Chemical Weapons Convention** List Schedule III Chemicals

: Not listed

: Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation

[Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative

#### **Process Category**

PROC 1	Use in closed process, no likelihood of exposure
PROC 2	Use in closed, continuous process with occasional controlled exposure
PROC 3	Use in closed batch process (synthesis or formulation)
PROC 4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC 5	Mixing or blending in batch processes for formulation of preparations and articles
	(multistage and/or significant contact)
PROC 6	Calendering operations
PROC 7	Industrial spraying
PROC 8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers
	at non-dedicated facilities
PROC 8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers
	at dedicated facilities
PROC 9	Transfer of substance or preparation into small containers (dedicated filling line, including

PD 0 C 10	weighing)
PROC 10	Roller application or brushing
PROC 12	Non industrial spraying
PROC 12	Use of blowing agents in manufacture of foam
PROC 14	Treatment of articles by dipping and pouring
PROC 15	Production of preparations or articles by tabletting, compression, extrusion, pelletisation
PROC 15	Use as laboratory reagent
PROC 16	Using material as fuel sources, limited exposure to unburned product to be expected
PROC 19	Hand-mixing with intimate contact and only PPE available.
PROC 20	Heat and pressure transfer fluids in dispersive, professional use but closed systems.
PROC 21	Low energy manipulation of substances bound in materials and/or articles
PROC 22	Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting
PROC 23	Open processing and transfer operations with minerals/metals at elevated temperature
PROC 24	High (mechanical) energy work-up of substances bound in materials and/or articles
PROC 24c	High (mechanical) energy work-up of substances bound in materials and/or articles - pt > mp - High Fugacity
PROC 25	Other hot work operations with metals
Sector of Use	
SU 1	Agriculture, forestry, fishery
SU 2a	Mining, (without offshore industries)
SU 2b	Offshore industries
SU 3	Uses of substances as such or in preparations at industrial sites
SU 5	Manufacture of textiles, leather, fur
SU 6a	Manufacture of wood and wood products
SU 6b	Manufacture of pulp, paper and paper products
SU 7	Printing and reproduction of recorded media
SU 8	Manufacture of bulk, large scale chemicals (including petroleum products)
SU 9	Manufacture of fine chemicals
SU 10	Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU 11	Manufacture of rubber products
SU 12	Manufacture of plastics products, including compounding and conversion
SU 13	Manufacture of other non-metallic mineral products, e.g. plasters, cement
SU 14	Manufacture of basic metals, including alloys
SU 15	Manufacture of fabricated metal products, except machinery and equipment
SU 16	Manufacture of computer, electronic and optical products, electrical equipment
SU 17	General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.
SU 18	Manufacture of furniture
SU 19	Building and construction work
SU 21	Consumer uses: Private households (= general public = consumers)
SU 22	Professional uses: Public domain (administration, education, entertainment, services,
30 22	craftsmen)
SU 23	Electricity, steam, gas water supply and sewage treatment
SU 24	Scientific research and development
Environmenta	l Release Category
ACEA1	Automotive vehicles - Solids
ACEA1	Automotive vehicles - Solids Automotive vehicles - Volatiles/Solvents
BFL/ZKF1	Acabado de vehículos - Sólidos
BFL/ZKF2	Vehicle Refinishing - Volatiles/Solvents
CEPE1	Formulation of Organic Solvent Borne Coatings and Inks - Large Scale (>100 tpa solvent
CELEI	use) - VOC
CEPE2	Formulation of Organic Solvent Borne Coatings and Inks - Small Scale (<100 tpa solvent use) - VOC
CEPE3	Formulation of Organic Solvent Borne Coatings and Inks - Solids
CEPE4	Formulation of Water Borne Coatings and Inks - Large Scale (>100 tpa solvent use) - VOC

CEPE16 CEPE1 Formulation of Powder Coatings and Inks - Solids CEPE3 Formulation of Liquid Coatings and Inks (where specific use not known) - Large Scale(>100 tpa solvent use) - VOC CEPE9 Formulation of Liquid Coatings and Inks (where specific use not known) - Small Scale (<100 tpa solvent use) - VOC CEPE9 Formulation of Liquid Coatings and Inks (where specific use not known) - Small Scale (<100 tpa solvent use) - VOC CEPE10 Formulation of Liquid Coatings and Inks (where specific use not known) - Solids CEPE11 Wide Dispersive Application of Decorative Coatings - Consumer and Professionals indoor use - Solvents and volatiles Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - indoor use - Solvents and Volatiles Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - outdoor use - Solvents and Volatiles CEPE13 Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - outdoor use - Solids CEPE14 Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - outdoor use - Solids CEPE15 Other spray coating - Volatiles / Abatement CEPE160 Other spray coating - Volatiles / Abatement CEPE17 Other spray coating, indoor use - point sources - Volatiles CEPE17 Other spray coating, indoor use - wide dispersive - Volatiles CEPE17 Other spray coating, indoor use - wide dispersive - Solids CEPE18 CEPE17 Other spray coating, indoor use - wide dispersive - Solids CEPE18 COLIPA 12 Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products - (medium scale) COLIPA 19 Wide Dispersive Use of Aerosol products for hair and skin care (Non-Propellants) ECCA1 Industrial Coil Coating - Solids ECCA2 Industrial Use of Paint, Coatings in metal packaging - Non-Solvents Manufacture of substances ERC 2 Formulation of preparations FERC 3 Formulation of preparations FERC 4 Industrial use of Paint, Coatings in metal packaging - Solvents M		
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outdoor use - Solvents and Volatiles  CEPE15 Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - outdoor use - Solids  CEPE160 Other spray coating, indoor use - point sources - Volatiles  CEPE161 Other spray coating, indoor use - point sources - Volatiles  CEPE170 Other spray coating, indoor use - point sources - Volatiles  CEPE171 Other spray coating, indoor use - point sources - Solids  CEPE172 Other spray coating, indoor use - point sources - Solids  CEPE18 Powder spraying  COLIPA 12 Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products - (medium scale)  COLIPA 19 Wide Dispersive Use of Aerosol products for hair and skin care (Non-Propellants)  ECCA1 Industrial Coil Coating - Solids  ECCA2 Industrial Use of Paint, Coatings in metal packaging - Non-Solvents  EMPAC1 Industrial Use of Paint, Coatings in metal packaging - Solvents  Manufacture of substances  ERC 2 Formulation in preparations  ERC 3 Industrial use resulting in inclusion into or onto a matrix  ERC 4 Industrial use resulting in manufacture of another sub-stance (use of intermediates)  ERC 6 Industrial use of processing aids in processes and products, not becoming part of articles  ERC 6 Industrial use resulting in manufacture of another sub-stance (use of intermediates)  ERC 6 Industrial use of processing aids in processes in production of resins, rubbers, polymers  ERC 7 ERC 8 Wide dispersive indoor use of processing aids in open systems  ERC 8 Wide dispersive indoor use of processing aids in open systems  ERC 8 Wide dispersive indoor use of reactive substances in open systems  ERC 8 Wide dispersive outdoor use resulting in inclusion into or a matrix  Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing		indoor use - Solids
outdoor use - Solvents and Volatiles  CEPE15 Wide Dispersive Application of Decorative Coatings - Consumer and Professionals - outdoor use - Solids  CEPE160 Other spray coating, indoor use - point sources - Volatiles  CEPE161 Other spray coating, indoor use - point sources - Volatiles  CEPE170 Other spray coating, indoor use - point sources - Volatiles  CEPE171 Other spray coating, indoor use - point sources - Solids  CEPE172 Other spray coating, indoor use - point sources - Solids  CEPE18 Powder spraying  COLIPA 12 Formulation of cosmetic products involving cleaning with Organic Solvents (Varnish / Removers, Decorative Cosmetics, Spray, Lacquer, Fine Fragrance, Solar oil, solid products - (medium scale)  COLIPA 19 Wide Dispersive Use of Aerosol products for hair and skin care (Non-Propellants)  ECCA1 Industrial Coil Coating - Solids  ECCA2 Industrial Use of Paint, Coatings in metal packaging - Non-Solvents  EMPAC1 Industrial Use of Paint, Coatings in metal packaging - Solvents  Manufacture of substances  ERC 2 Formulation in preparations  ERC 3 Industrial use resulting in inclusion into or onto a matrix  ERC 4 Industrial use resulting in manufacture of another sub-stance (use of intermediates)  ERC 6 Industrial use of processing aids in processes and products, not becoming part of articles  ERC 6 Industrial use resulting in manufacture of another sub-stance (use of intermediates)  ERC 6 Industrial use of processing aids in processes in production of resins, rubbers, polymers  ERC 7 ERC 8 Wide dispersive indoor use of processing aids in open systems  ERC 8 Wide dispersive indoor use of processing aids in open systems  ERC 8 Wide dispersive indoor use of reactive substances in open systems  ERC 8 Wide dispersive outdoor use resulting in inclusion into or a matrix  Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing aids in open systems  ERC 8 Wide dispersive outdoor use of processing	CEPE13	Wide Dispersive Application of Decorative Coatings - Consumer and Professionals -
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FEICA2 Formulation of Solvent Borne adhesives - Volatiles (Large Scale)		
	FEICA2	Formulation of Solvent Borne adhesives - Volatiles (Large Scale)
FEICA3 Formulation of Solvent Borne adhesives - Volatiles (Small Scale)		
FEICA4 Formulation of Water Borne adhesives - Volatiles		
FEICA5 Formulation of Water Borne adhesives - Solids		Formulation of Water Borne adhesives - Solids
	FEICA6	Industrial Use of Substances other than Solvents in Paper, Board and related Products /
FEICA6 Industrial Use of Substances other than Solvents in Paper, Board and related Products /		Woodworking and joinery / Footwear and Leather, Textile, Others Adhesives
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1 /		woodworking and joinery / Footwear and Leather, Textile, Others Adhesives

FEICA7	Industrial Use of Substances other than Solvents in Transportation (Automotive/aircraft/rail vehicles) / industrial Building Construction Adhesives
FEICA8	Industrial Use of Solvents in Paper, Board and related Products / Woodworking and joinery
	/ Footwear and Leather, Textile, Others Adhesives
FEICA9	Industrial Use of Solvents in Transportation (Automotive/aircraft/rail vehicles) / industrial
	Building Construction Adhesives
FEICA10	Wide dispersive Use of Substances other than Solvents in Building Construction Adhesives
	for indoor application
FEICA11	Wide dispersive Use of Substances other than Solvents in Professional and DIY Adhesives
FEICA12	Wide dispersive Use of Solvents in Building Construction Adhesives for indoor application
FEICA13	Wide dispersive Use of Solvents in Professional and DIY Adhesives
FEICA14	Wide dispersive Use of Substances other than Solvents in Building Construction Adhesives
	for outdoor application
FEICA15	Wide dispersive Use of Solvents in Building Construction Adhesives for outdoor
	application
mERC 1.1	Environmental releases related to manufacture and use of the substance by the Registrant.
mERC 1.2	Environmental releases related to use of the substance as a reactant, monomer or blending in
	a mixture by a DU.

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr./Irrit. 2, H315	Calculation method
Eye Dam./Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements	:	<ul> <li>H411 Toxic to aquatic life with long lasting effects.</li> <li>H319 Causes serious eye irritation.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> </ul>
Full text of classifications [CLP/GHS]	:	Aquatic Chronic 2, H411: AQUATIC HAZARD (LONG-TERM) - Category 2 Eye Dam./Irrit. 2, H319: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Skin Corr./Irrit. 2, H315: SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1, H317: SKIN SENSITIZATION - Category 1
		D2C/20 I ''

**Full text of abbreviated R phrases** : R36/38- Irritating to eyes and skin.

R43- May cause sensitization by skin contact.

R51/53- Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

Full text of classifications : Xi - Irritant

[DSD/DPD] N - Dangerous for the environment.