

# SAFETY DATA SHEET



Compensated Epon - No hardener, Part Number G7426-85001

## SECTION 1: Identification of the substance/mixture and of the company/ undertaking

### 1.1 Product identifier

**Product name** : Compensated Epon - No hardener, Part Number G7426-85001  
**Part No. (Kit)** : G7426-85001  
**Part No.** : EPON resin 828 8829971600  
 Resolve- AL HO 8830150900

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

Identified uses	
Analytical chemistry. 1 Container EPON resin 828 Resolve- AL HO	1 g x Tube

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

Agilent Technologies Manufacturing GmbH & Co. KG  
 Hewlett-Packard-Str. 8  
 76337 Waldbronn  
 Germany  
 0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : EPON resin 828 Mono-constituent substance  
 Resolve- AL HO Mono-constituent substance

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

##### **EPON resin 828**

H315 SKIN CORROSION/IRRITATION - Category 2  
 H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 H317 SKIN SENSITIZATION - Category 1  
 H411 LONG-TERM AQUATIC HAZARD - Category 2

#### Classification according to Directive 1999/45/EC [DPD]

EPON resin 828 The product is classified as dangerous according to Directive 67/548/EEC and its amendments.  
 Resolve- AL HO The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : EPON resin 828 Xi; R36/38  
 R43  
 N; R51/53  
 Resolve- AL HO Not classified.  
**Human health hazards** : EPON resin 828 Irritating to eyes and skin. May cause sensitisation by skin contact.  
 Resolve- AL HO Not applicable.

## SECTION 2: Hazards identification

**Environmental hazards** : EPON resin 828 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Resolve- AL HO Not applicable.

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

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



**Signal word** : EPON resin 828 Warning  
 Resolve- AL HO No signal word.

**Hazard statements** : EPON resin 828 **GHS07** - Causes skin irritation.  
 Causes serious eye irritation.  
 May cause an allergic skin reaction.  
**GHS09** - Toxic to aquatic life with long lasting effects.  
 Resolve- AL HO No known significant effects or critical hazards.

### Precautionary statements

**Prevention** : EPON resin 828 P280 - Wear protective gloves. Wear eye or face protection.  
 Resolve- AL HO P273 - Avoid release to the environment.  
 Not applicable.

**Response** : EPON resin 828 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Resolve- AL HO Not applicable.

**Storage** : EPON resin 828 Not applicable.  
 Resolve- AL HO Not applicable.

**Disposal** : EPON resin 828 P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
 Resolve- AL HO Not applicable.

**Hazardous ingredients** : **EPON resin 828**  
 Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin

**Resolve- AL HO**  
 Holmium tris(2,2,6,6-tetramethyl-3,5-heptanedionate)

**Supplemental label elements** : EPON resin 828 Not applicable.  
 Resolve- AL HO Not applicable.

### Special packaging requirements

**Tactile warning of danger** : EPON resin 828 Not applicable.  
 Resolve- AL HO Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : EPON resin 828 None known.  
 Resolve- AL HO None known.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** : EPON resin 828 Mono-constituent substance  
 Resolve- AL HO Mono-constituent substance

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

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
<b>EPON resin 828</b> Reaction product: Bisphenol-A- (Epichlorhydrin); epoxy resin	EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	100	Xi; R36/38 R43 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[A]
<b>Resolve- AL HO</b> Holmium tris(2,2,6, 6-tetramethyl-3, 5-heptanedionate)	EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	100	Xi; R36/38 R43 N; R51/53  <b>See Section 16 for the full text of the R- phrases declared above.</b>	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411  <b>See Section 16 for the full text of the H statements declared above.</b>	[A]

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.

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

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>Eye contact</b>	: EPON resin 828	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.
	Resolve- AL HO	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
<b>Inhalation</b>	: EPON resin 828	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.
	Resolve- AL HO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: EPON resin 828	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.
	Resolve- AL HO	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

**SECTION 4: First aid measures**

<b>Ingestion</b>	: EPON resin 828  Resolve- AL HO	symptoms occur. 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.  Wash out mouth with water. 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. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
<b>Protection of first-aiders</b>	: EPON resin 828  Resolve- AL HO	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.  No action shall be taken involving any personal risk or without suitable training.

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

Potential acute health effects

<b>Eye contact</b>	: EPON resin 828 Resolve- AL HO	Causes serious eye irritation. No known significant effects or critical hazards.
<b>Inhalation</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Skin contact</b>	: EPON resin 828 Resolve- AL HO	Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards.
<b>Ingestion</b>	: EPON resin 828 Resolve- AL HO	Irritating to mouth, throat and stomach. No known significant effects or critical hazards.

Over-exposure signs/symptoms

<b>Eye contact</b>	: EPON resin 828  Resolve- AL HO	Adverse symptoms may include the following: pain or irritation watering redness No specific data.
<b>Inhalation</b>	: EPON resin 828 Resolve- AL HO	No specific data. No specific data.
<b>Skin contact</b>	: EPON resin 828  Resolve- AL HO	Adverse symptoms may include the following: irritation redness No specific data.
<b>Ingestion</b>	: EPON resin 828 Resolve- AL HO	No specific data. No specific data.

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

<b>Notes to physician</b>	: EPON resin 828  Resolve- AL HO	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: EPON resin 828 Resolve- AL HO	No specific treatment. No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: EPON resin 828 Resolve- AL HO	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: EPON resin 828 Resolve- AL HO	None known. None known.

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

<b>Hazards from the substance or mixture</b>	: EPON resin 828  Resolve- AL HO	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. No specific fire or explosion hazard.
<b>Hazardous combustion products</b>	: EPON resin 828  Resolve- AL HO	Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds Decomposition products may include the following materials: carbon dioxide carbon monoxide

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: EPON resin 828  Resolve- AL HO	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. 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.
<b>Special protective equipment for fire-fighters</b>	: EPON resin 828  Resolve- AL HO	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. 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.

## SECTION 6: Accidental release measures

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

<b>For non-emergency personnel</b>	: EPON resin 828  Resolve- AL HO	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
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**SECTION 6: Accidental release measures**

<b>For emergency responders</b>	: EPON resin 828	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".
	Resolve- AL HO	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".
<b>6.2 Environmental precautions</b>	: EPON resin 828	Avoid dispersal of spilt 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.
	Resolve- AL HO	Avoid dispersal of spilt 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).
<b>6.3 Methods and materials for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: EPON resin 828	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.
	Resolve- AL HO	Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
<b>6.4 Reference to other sections</b>	: 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**

<b>Protective measures</b>	: EPON resin 828	Put on appropriate personal protective equipment (see Section 8). 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 vapour 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.
	Resolve- AL HO	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: EPON resin 828	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.
	Resolve- AL HO	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.

## SECTION 7: Handling and storage

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

: EPON resin 828

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) 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

Resolve- AL HO

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) 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 unlabelled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

#### Recommendations

: EPON resin 828  
Resolve- AL HO

Industrial applications, Professional applications.  
Industrial applications, Professional applications.

#### Industrial sector specific solutions

: Not applicable.

## 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.

#### Derived effect levels

No DNELs available.

#### Predicted effect concentrations

No PNECs available.

### 8.2 Exposure controls

#### Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### 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.

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

- 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 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**

<b>Physical state</b>	: EPON resin 828 Resolve- AL HO	Liquid. [Viscous liquid.] Solid.
<b>Colour</b>	: EPON resin 828 Resolve- AL HO	Clear. [Light] White.
<b>Odour</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Odour threshold</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>pH</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Melting point/freezing point</b>	: EPON resin 828 Resolve- AL HO	Not available. 175 to 180°C
<b>Initial boiling point and boiling range</b>	: EPON resin 828 Resolve- AL HO	>260°C Not available.
<b>Flash point</b>	: EPON resin 828 Resolve- AL HO	Closed cup: 248.89°C [Pensky-Martens.] Open cup: 249°C Not available.
<b>Evaporation rate</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Flammability (solid, gas)</b>	: EPON resin 828 Resolve- AL HO	Not applicable. Not available.
<b>Upper/lower flammability or explosive limits</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Vapour pressure</b>	: EPON resin 828 Resolve- AL HO	<0.013 kPa [room temperature] <0.004 kPa [50°C] Not available.
<b>Vapour density</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.



## SECTION 9: Physical and chemical properties

<b>Relative density</b>	: EPON resin 828	1.17
	Resolve- AL HO	Not available.
<b>Solubility(ies)</b>	: EPON resin 828	Insoluble in the following materials: cold water and hot water.
	Resolve- AL HO	Insoluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: EPON resin 828	Not available.
	Resolve- AL HO	Not available.
<b>Auto-ignition temperature</b>	: EPON resin 828	Not available.
	Resolve- AL HO	Not available.
<b>Decomposition temperature</b>	: EPON resin 828	Not available.
	Resolve- AL HO	290°C
<b>Viscosity</b>	: EPON resin 828	Not available.
	Resolve- AL HO	Not available.
<b>Explosive properties</b>	: EPON resin 828	Not available.
	Resolve- AL HO	Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: EPON resin 828	No specific test data related to reactivity available for this product or its ingredients.
	Resolve- AL HO	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: EPON resin 828	The product is stable.
	Resolve- AL HO	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: EPON resin 828	Under normal conditions of storage and use, hazardous reactions will not occur.
	Resolve- AL HO	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: EPON resin 828	No specific data.
	Resolve- AL HO	No specific data.
<b>10.5 Incompatible materials</b>	: EPON resin 828	No specific data.
	Resolve- AL HO	No specific data.
<b>10.6 Hazardous decomposition products</b>	: EPON resin 828	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Resolve- AL HO	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
<b>EPON resin 828</b> Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	LD50 Oral	Rat	11.4 g/kg	-

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

## SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
<b>EPON resin 828</b> Reaction product: Bisphenol-A-(Epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-

### Sensitiser

**Conclusion/Summary** : Not available.

### Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

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

<b>Inhalation</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Ingestion</b>	: EPON resin 828 Resolve- AL HO	Irritating to mouth, throat and stomach. No known significant effects or critical hazards.
<b>Skin contact</b>	: EPON resin 828 Resolve- AL HO	Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards.
<b>Eye contact</b>	: EPON resin 828 Resolve- AL HO	Causes serious eye irritation. No known significant effects or critical hazards.

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

<b>Inhalation</b>	: EPON resin 828 Resolve- AL HO	No specific data. No specific data.
<b>Ingestion</b>	: EPON resin 828 Resolve- AL HO	No specific data. No specific data.
<b>Skin contact</b>	: EPON resin 828  Resolve- AL HO	Adverse symptoms may include the following: irritation redness No specific data.
<b>Eye contact</b>	: EPON resin 828  Resolve- AL HO	Adverse symptoms may include the following: pain or irritation watering redness 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 available.

**SECTION 11: Toxicological information**

**Potential delayed effects** : Not available.

**Potential chronic health effects**

<b>General</b>	: EPON resin 828 Resolve- AL HO	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Mutagenicity</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: EPON resin 828 Resolve- AL HO	No known significant effects or critical hazards. No known significant effects or critical hazards.

**Toxicokinetics**

<b>Absorption</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Distribution</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Metabolism</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Elimination</b>	: EPON resin 828 Resolve- AL HO	Not available. Not available.
<b>Other information</b>	: Not available.	

**SECTION 12: Ecological information****12.1 Toxicity**

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

Not available.

**12.4 Mobility in soil**

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

**12.5 Results of PBT and vPvB assessment**

**PBT** : Not applicable.

**vPvB** : Not applicable.

**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 minimised 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 minimised 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### Regulatory information

**ADR/RID / IMDG / IATA** : Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## 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 authorisation

##### Substances of very high concern

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Europe inventory** : Not determined.

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Not listed

**Integrated pollution prevention and control list (IPPC) - Air** : Not listed

**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

**SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number

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

Classification	Justification
<b>EPON resin 828</b> Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Regulatory data Regulatory data Regulatory data Regulatory data

**Full text of abbreviated H statements** : **EPON resin 828**  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H411 Toxic to aquatic life with long lasting effects.

**Full text of classifications [CLP/GHS]** : **EPON resin 828**  
 Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2  
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2  
 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2  
 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1

**Full text of abbreviated R phrases** : EPON resin 828  
 R36/38- Irritating to eyes and skin.  
 R43- May cause sensitisation by skin contact.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 Resolve- AL HO Not applicable.

**Full text of classifications [DSD/DPD]** : EPON resin 828  
 Xi - Irritant  
 N - Dangerous for the environment  
 Resolve- AL HO Not applicable.

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