

# SAFETY DATA SHEET



DELO®-CA 2348

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

### 1.1 Product identifier

**Product name** : DELO®-CA 2348

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

#### Identified uses

Use of the substance/mixture: Adhesive.  
 Process categories [PROC]:  
 PROC01: Use in closed process, no likelihood of exposure.  
 PROC02: Use in closed, continuous process with occasional controlled exposure.  
 PROC03: Use in closed batch process (synthesis or formulation).  
 PROC04: Use in batch and other process (synthesis) where opportunity for exposure arises.  
 PROC05: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact).  
 PROC09: Transfer of substance or preparation into small containers (dedicated filling line, including weighing).  
 PROC10: Roller application or brushing of adhesive and other coating.  
 Environmental release categories [ERC]:  
 ERC02: Formulation of preparations.  
 ERC05: Industrial use resulting in inclusion into or onto a matrix.  
 Product categories [PC]:  
 PC01: Adhesives, sealants.  
 Sector of uses [SU]:  
 SU03: Industrial uses.  
 SU10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys).  
 SU16: Manufacture of computer, electronic and optical products, electrical equipment.  
 SU17: General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment.  
 \*: Mixture.

**Use of the substance/  
mixture** : Industrial/Professional use

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

**Supplier's details** : DELO Industrie Klebstoffe GmbH & Co. KGaA  
DELO-Allee 1  
86949 Windach  
Germany  
Telephone no.: +49 8193 9900-0**Information contact** : msds@DELO.de  
Department Chemistry - Compliance

### 1.4 Emergency telephone number

#### General

National advisory body/Poison Centre

#### Transport

**Telephone number** : GlobalChem24: +44 (0) 1235 239 670**Hours of operation** : 24-hour telephone and/or website**Information limitations** : In case of emergency [Transport]

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Aquatic Chronic 3, H412

**Ingredients of unknown toxicity** : 99 percent of the mixture consists of component(s) of unknown toxicity

**Ingredients of unknown ecotoxicity** : Contains 96.5 % of components with unknown hazards to the aquatic environment

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

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

**Classification** : R52/53

**Environmental hazards** : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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** : No signal word.

**Hazard statements** : Harmful to aquatic life with long lasting effects.

#### Precautionary statements

**Prevention** : Avoid release to the environment.

**Response** : Not applicable.

**Storage** : Not applicable.

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

**Supplemental label elements** : Cyanoacrylate. Danger. Keep out of the reach of children. Bonds skin and eyes in seconds.

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

### 2.3 Other hazards

**Other hazards which do not result in classification** : None known.


## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	

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### SECTION 3: Composition/information on ingredients

<p> H-Pyrrole-2,5-dione, 1,1'-[methylenebis(2-ethyl-6-methyl-4,1-phenylene)]bis-6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol</p>	<p>CAS: 105391-33-1  EC: 204-327-1 CAS: 119-47-1</p>	<p>&gt;=0.25 - &lt;2.5  &lt;1</p>	<p>N; R50/53  Xi; R36</p>	<p>Aquatic Acute 1, H400  Aquatic Chronic 1, H410  Eye Irrit. 2, H319 Repr. 2, H361fd (Fertility and Unborn child)</p>	<p>[1]   [1]</p>
<p>1,4-dihydroxybenzene</p>	<p>EC: 204-617-8 CAS: 123-31-9 Index: 604-005-00-4</p>	<p>&lt;0.1</p>	<p>Carc. Cat. 3; R40 Muta. Cat. 3; R68 Xn; R22 Xi; R41 R43 N; R50  <b>See Section 16 for the full text of the R-phrases declared above.</b></p>	<p>Aquatic Chronic 4, H413 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410  <b>See Section 16 for the full text of the H statements declared above.</b></p>	<p>[1] [2]</p>

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit 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

- 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 if irritation occurs.
- 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. 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.

## SECTION 4: First aid measures

**Protection of first-aiders** : 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.

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

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

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

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.  
**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.  
**Unsuitable extinguishing media** : 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 harmful 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  
 nitrogen oxides

### 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.

**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 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.
- For emergency responders** : 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 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.

**6.3 Methods and material 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 the 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 spilt 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**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

**7.1 Precautions for safe handling**

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.
- 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**

Storage temperature: Observe technical data sheet/instructions for use.

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.

## SECTION 7: Handling and storage

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
1,4-dihydroxybenzene	<b>EH40/2005 WELs (United Kingdom (UK), 1/2012).</b> TWA: 0.5 mg/m <sup>3</sup> 8 hours.

**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 DELs available.

#### Predicted effect concentrations

No PECs 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : 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. Wear suitable gloves tested to EN374. Recommended: Viton® fluor rubber 1 - 4 hours (breakthrough time) / Short Term Exposure < 15 min. Nitrile gloves.

**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. Recommended: organic vapour filter (Type A)

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## SECTION 8: Exposure controls/personal protection

**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

**Physical state** : Liquid.  
**Colour** : Yellowish.  
**Odour** : Not available.  
**Flash point** :  closed cup: 80°C [Tagliabue.]  
**Upper/lower flammability or explosive limits** : Not available.  
**Vapour pressure** : <0.03 kPa [room temperature]  
**Vapour density** : Not available.  
**Relative density** : Not available.  
**Solubility(ies)** : Not available.  
**Partition coefficient: n-octanol/ water** : Not available.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : Not available.  
**Viscosity** : Not available.  
**Explosive properties** : Not available.  
**Oxidising properties** : Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.  
**10.2 Chemical stability** : The product is stable.  
**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.  
**10.4 Conditions to avoid** : No specific data.  
**10.5 Incompatible materials** : No specific data.  
**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
DELO-CA 2348	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	LD50 Oral	Rat	4880 mg/kg	-
1,4-dihydroxybenzene	LD50 Oral	Rat	302 mg/kg	-

**Conclusion/Summary** : Not available.**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
1,4-dihydroxybenzene	Skin - Mild irritant	Human	-	2 Percent	-
	Skin - Severe irritant	Human	-	5 Percent	-

**Conclusion/Summary** : Not available.**Sensitisation****Conclusion/Summary** : Not available.**Mutagenicity****Conclusion/Summary** : Not available.**Carcinogenicity****Conclusion/Summary** : Not available.**Reproductive toxicity****Conclusion/Summary** : Not available.**Teratogenicity****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** : No known significant effects or critical hazards.**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.**Skin contact** : No known significant effects or critical hazards.**Ingestion** : No known significant effects or critical hazards.**Symptoms related to the physical, chemical and toxicological characteristics****Eye contact** : No specific data.**Inhalation** : No specific data.**Skin contact** : No specific data.



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**SECTION 11: Toxicological information****Ingestion** : 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.**Potential delayed effects** : Not available.**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Not available.**General** : No known significant effects or critical hazards.**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.**Other information** : Not available.**SECTION 12: Ecological information****12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
1,4-dihydroxybenzene	Acute EC50 130 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 44 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

**Conclusion/Summary** : Not available.**12.2 Persistence and degradability****Conclusion/Summary** : Not available.**12.3 Bioaccumulative potential**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	6.25	549.540873857	high
1,4-dihydroxybenzene	0.59	-	low

**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.

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## SECTION 12: Ecological information

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 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** : Yes.

#### European waste catalogue (EWC)


Waste code	Waste designation
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

#### 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

	ADR/RID	ADN	IMDG	IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	UN3334
<b>14.2 UN proper shipping name</b>	-	-	-	Aviation regulated liquid, n.o.s. (2-methoxyethyl 2-cyanoacrylate)
<b>14.3 Transport hazard class(es)</b>	-	-	-	9 
<b>14.4 Packing group</b>	-	-	-	III
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

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## SECTION 14: Transport information

Additional information	-	-	-	<p><b>Passenger and Cargo Aircraft</b> Quantity limitation: 100 L Packaging instructions: 964</p> <p><b>Cargo Aircraft Only</b> Quantity limitation: 220 L Packaging instructions: 964</p> <p><b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 30 kg Packaging instructions: Y964</p> <p><b>Special provisions</b> A27</p>
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**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.

**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**

**Annex XIV**

None of the components are listed.

**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**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
<input checked="" type="checkbox"/> 6'-di-tert-butyl-2,2'-methylenedi-p-cresol 1,4-dihydroxybenzene	-  Carc. 2, H351	-  Muta. 2, H341	Repr. 2, H361d (Unborn child) -	Repr. 2, H361f (Fertility) -

**Seveso II Directive**

This product is not controlled under the Seveso II Directive.

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

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## SECTION 15: Regulatory information

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still 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]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification																								
✔ Aquatic Chronic 3, H412	Expert judgment																								
<b>Full text of abbreviated H statements</b> :	<table border="1"> <tr> <td>✔ H302</td> <td>Harmful if swallowed.</td> </tr> <tr> <td>H315</td> <td>Causes skin irritation.</td> </tr> <tr> <td>H317</td> <td>May cause an allergic skin reaction.</td> </tr> <tr> <td>H318</td> <td>Causes serious eye damage.</td> </tr> <tr> <td>H319</td> <td>Causes serious eye irritation.</td> </tr> <tr> <td>H341</td> <td>Suspected of causing genetic defects.</td> </tr> <tr> <td>H351</td> <td>Suspected of causing cancer.</td> </tr> <tr> <td>H361fd (Fertility and Unborn child)</td> <td>Suspected of damaging fertility. Suspected of damaging the unborn child.</td> </tr> <tr> <td>H400</td> <td>Very toxic to aquatic life.</td> </tr> <tr> <td>H410</td> <td>Very toxic to aquatic life with long lasting effects.</td> </tr> <tr> <td>H412</td> <td>Harmful to aquatic life with long lasting effects.</td> </tr> <tr> <td>H413</td> <td>May cause long lasting harmful effects to aquatic life.</td> </tr> </table>	✔ H302	Harmful if swallowed.	H315	Causes skin irritation.	H317	May cause an allergic skin reaction.	H318	Causes serious eye damage.	H319	Causes serious eye irritation.	H341	Suspected of causing genetic defects.	H351	Suspected of causing cancer.	H361fd (Fertility and Unborn child)	Suspected of damaging fertility. Suspected of damaging the unborn child.	H400	Very toxic to aquatic life.	H410	Very toxic to aquatic life with long lasting effects.	H412	Harmful to aquatic life with long lasting effects.	H413	May cause long lasting harmful effects to aquatic life.
✔ H302	Harmful if swallowed.																								
H315	Causes skin irritation.																								
H317	May cause an allergic skin reaction.																								
H318	Causes serious eye damage.																								
H319	Causes serious eye irritation.																								
H341	Suspected of causing genetic defects.																								
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<b>Full text of classifications [CLP/GHS]</b> :	<table border="1"> <tr> <td>✔ Acute Tox. 4, H302</td> <td>ACUTE TOXICITY (oral) - Category 4</td> </tr> <tr> <td>Aquatic Acute 1, H400</td> <td>ACUTE AQUATIC HAZARD - Category 1</td> </tr> <tr> <td>Aquatic Chronic 1, H410</td> <td>LONG-TERM AQUATIC HAZARD - Category 1</td> </tr> <tr> <td>Aquatic Chronic 3, H412</td> <td>LONG-TERM AQUATIC HAZARD - Category 3</td> </tr> <tr> <td>Aquatic Chronic 4, H413</td> <td>LONG-TERM AQUATIC HAZARD - Category 4</td> </tr> <tr> <td>Carc. 2, H351</td> <td>CARCINOGENICITY - Category 2</td> </tr> <tr> <td>Eye Dam. 1, H318</td> <td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1</td> </tr> <tr> <td>Eye Irrit. 2, H319</td> <td>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2</td> </tr> <tr> <td>Muta. 2, H341</td> <td>GERM CELL MUTAGENICITY - Category 2</td> </tr> <tr> <td>Repr. 2, H361fd (Fertility and Unborn child)</td> <td>TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 2</td> </tr> </table>	✔ Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4	Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1	Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1	Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3	Aquatic Chronic 4, H413	LONG-TERM AQUATIC HAZARD - Category 4	Carc. 2, H351	CARCINOGENICITY - Category 2	Eye Dam. 1, H318	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2	Muta. 2, H341	GERM CELL MUTAGENICITY - Category 2	Repr. 2, H361fd (Fertility and Unborn child)	TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 2				
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**SECTION 16: Other information**

Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1

**Full text of abbreviated R phrases** : R40- Limited evidence of a carcinogenic effect.  
R68- Possible risk of irreversible effects.  
R22- Harmful if swallowed.  
R41- Risk of serious damage to eyes.  
R36- Irritating to eyes.  
R43- May cause sensitisation by skin contact.  
R50- Very toxic to aquatic organisms.  
R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications [DSD/DPD]** : Carc. Cat. 3 - Carcinogen category 3  
Muta. Cat. 3 - Mutagen category 3  
Xn - Harmful  
Xi - Irritant  
N - Dangerous for the environment

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