

# SURFYNOL® CT-324

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## GLOBAL CHEMICAL INVENTORIES

Last revision for this chapter was on 2024-04-03

The below country inventory information results from a set of confidential data. If required, necessary data can be made available to the country authorities directly.

### Australia

All components are listed on AICC.

### Canada

All components are listed on DSL.

### China

All components are listed on IECSC.

### Eurasian Economic Union

One or more component(s) are not reported to the inventory of chemicals and mixtures of the Eurasian Economic Union. (EAEU inventory).

### European Union

All components are listed on EINECS or ELINCS.  
One or more component(s) are not registered in REACh.

### Japan

All components are listed on ENCS (MITI) or exempted.

### New Zealand

All components are listed on NZIoC and/or are exempted from registration (non hazardous).

### Philippines

All components are listed on PICCS.

### South Korea

All components are listed on ECL.

## Switzerland

One or more component(s) are not registered.

## Taiwan

All components are listed on TCSI.

## Turkey

One or more component(s) are not pre-registered in KKDIK.

## United Kingdom

One or more substances are not notified/registered.

## USA

All components are listed and have been notified as being "Active" under the requirements of the TSCA Inventory Reset.

## Vietnam

One or more component(s) is/are not listed on NCI inventory.

## COUNTRY PRODUCT REGISTERS

Last revision for this chapter was on 2024-04-03

### Scandinavian Product Register

For registration request please contact us.

### Spanish Poison Center (INTCF)

For registration request please contact us.

## FOOD CONTACT STATUS

The business line Coating Additives of Evonik has prioritized certain products for food contact applications. Statements of those specified products which have been evaluated and offer food contact compliances are available in a separate document on our website.

## ECOLABEL STATUS

The business line Coating Additives of Evonik has prioritized certain products for ecolabel applications. Statements of those specified products which have been evaluated and offer ecolabel compliances are available in a separate document on our website.

## FURTHER REGULATORY INFORMATION REFERRING TO FINAL MATERIALS OR ARTICLES

Last revision for this chapter was on 2024-04-03

### DIN EN 71-3 : 2021 (Safety of Toys: Migration of certain elements)

We do not expect the presence of substances mentioned in DIN EN 71-3: 2021 in amounts exceeding the respective limits within SURFYNOL® CT-324.

### US ASTM - F 693 (Safety of Toys)

We do not expect the presence of substances mentioned in US ASTM - F 693 in amounts exceeding the respective limits within SURFYNOL® CT-324.

### Maine CHCC (Safety of Toys)

SURFYNOL® CT-324 is not compliant to Maine CHCC.

### Oregon CHCC (Safety of Toys)

SURFYNOL® CT-324 is not compliant to Oregon CHCC.

### Vermont CHCC (Safety of Toys)

SURFYNOL® CT-324 is not compliant to Vermont CHCC.

### Washington State CHCC (Safety of Toys)

SURFYNOL® CT-324 is not compliant to Washington State CHCC.

### Directive 2011/65/EC (RoHS) amended through Directive (EU) 2015/863

We do not expect the presence of substances mentioned in Directive 2011/65/EC amended through Directive (EU) 2015/863 in amounts exceeding the respective limits within this product.

### Council Directive 94/62/EC (packaging and packaging waste)

We do not expect the presence of substances mentioned in Council Directive 94/62/EC in amounts exceeding the respective limits within this product.

## Coalition of North Eastern Governors (CONEG)

We do not expect the presence of substances mentioned in CONEG in amounts exceeding the respective limits within this product.

## China GB/T39498-2020 (Guidelines for Controlling the Use of Key Chemical Substances in Consumer Products)

Please note, that SURFYNOL® CT-324 contains one or more substances, which are mentioned in China GB/T39498-2020.

For details please refer to the chapter Diverse Substances of this document. Please be aware that China GB/T39498-2020 sets limits of substances for the *finished* article.

## California Proposition 65

For information regarding the above mentioned regulation please refer to the US-MSDS under point 15.

## CERCLA

For information regarding the above mentioned regulation please refer to the US-MSDS under point 15.

## SARA 311/312/313

For information regarding the above mentioned regulation please refer to the US-MSDS under point 15.

## ADDITIONAL INFORMATION

### Biocides Content

Last revision for this chapter was on 2024-04-03

Herewith we confirm that we do not use biocides for SURFYNOL® CT-324 preservation.

### SVHC substances

We as a supplier of chemical substances or mixtures thereof are obliged to provide our customers with a Safety Data Sheet which includes information, if the product contains dangerous substances in reportable amounts according to EU regulations.

ECHA (European Chemicals Agency) regularly updates its Candidate List of Substances of Very High Concern for Authorization. For information regarding hazardous components of products supplied to you, please refer to our newest EU Safety Data Sheet which will be updated according to the legal obligations.

### Volatile Organic Compounds (VOC) / Semi-Volatile Organic Compounds (SVOC)

#### VOC (volatile organic compounds) - content

Last revision for this chapter was on 2024-04-03

Determination via ASTM D6886-14: approx <1.6%

#### SVOC (semi-volatile organic compounds) - content

No data available



## Diverse substances

Last revision for this chapter was on 2024-04-03

Unless other stated under "Remarks" we do not expect the presence of the following substances within SURFYNOL® CT-324.

If desired substance is not found by name search by substance's CAS #. Use Ctrl + F to search document.

## ACRYLATES

| Substance   | Remarks |
|---|---------|
| BDDA (1,4-Butanediol diacrylate) (CAS# 1070-70-8)                           |         |
| DEGDA (Diethylene glycol diacrylate) (CAS# 4074-88-8)                       |         |
| DPGDA (Dipropylene glycol diacrylate) (CAS# 57472-68-1)                     |         |
| 2-EHA (2-Ethyl hexyl acrylate) (CAS# 103-11-7)                              |         |
| HDDA (1,6-Hexanediol diacrylate) (CAS# 13048-33-4)                          |         |
| IDA (Isodecyl acrylate) (CAS# 1330-61-6)                                    |         |
| ODA (Octyl acrylate) (CAS# 2499-59-4)                                       |         |
| PETA (Mixtures of pentaerythritol tri and tetra-acrylates) (CAS# 3524-68-3) |         |
| Phenyl acrylate (CAS# 937-41-7)   |         |
| Phenoxyethyl acrylate (CAS# 48145-04-6)                                     |         |
| TEGDA (Tetraethylene glycol diacrylate) (CAS# 17831-71-9)                   |         |
| TMPTA (Trimethylol propane triacrylate) (CAS# 15625-89-5)                   |         |

## AROMATIC SUBSTANCES

(Please also refer to the section halogenated aromatic substances and flame retardants)

| Substance  | Remarks  |
|--|----------|
| <b>Monocyclic aromatic substances</b>                              |          |
| - 1,2,4-Trimethylbenzene (CAS# 95-63-6)                            |          |
| - Alkylphenols (e. g. o-Nonylphenol, o-Phenylphenol)               |          |
| - Alkylphenol ethoxylates (APEO)                                   | <10%     |
| - Benzene (CAS# 71-43-2)   |          |
| - BHA (Butylated hydroxyanisol) (CAS# 25013-16-5)                  |          |
| - BHT (Butylated hydroxytoluene) (CAS# 128-37-0)                   |          |
| - Ethylbenzene (CAS# 100-41-4)                                     |          |
| - Phenol (CAS# 108-95-2)   |          |
| - Primary aromatic amines  |          |
| - Styrene (CAS# 100-42-5)  | < 0.04 % |
| - Tris (nonylphenyl) phosphite (TNPP) (CAS# 26523-78-4)            |          |
| - Toluene (CAS# 108-88-3)  |          |
| - Xylene (CAS# 1330-20-7)  |          |
| <b>Bisphenol and derivatives</b>                                   |          |
| - BADGE (Bisphenol A diglycidyl ether) (CAS# 1675-54-3)            |          |
| - Bisphenol A (CAS# 80-05-7)                                       |          |
| - Bisphenol F (CAS# 620-92-8)                                      |          |
| - Bisphenol S (CAS# 80-09-1)                                       |          |
| <b>Halogenated aromatic substances</b>                             |          |
| - 1,2-Dichlorobenzene (CAS# 95-50-1)                               |          |
| - 1,4-Dichlorobenzene / Paradichlorobenzene (PDCB) (CAS# 106-46-7) |          |
| - PCBTF, Parachlorobenzotrifluoride, (CAS# 98-56-6)                |          |
| - Pentachlorophenol (PCP) (CAS# 87-86-5)                           |          |
| - Polybrominated biphenyls   |          |
| - Polybrominated diphenyl ethers                                   |          |
| - Polychlorinated terphenyls (PCT)                                 |          |
| <b>Parabens</b>  |          |
| - Paraben (4-Hydroxybenzoic acid) (CAS# 99-96-7)                   |          |
| - Methylparaben (Methyl-4-hydroxybenzoat) (CAS# 99-76-3)           |          |
| - Ethylparaben (Ethyl-4-hydroxybenzoat) (CAS# 120-47-8)            |          |
| - Propylparaben (Propyl-4-hydroxybenzoat) (CAS# 94-13-3)           |          |
| - Butylparaben (Butyl-4-hydroxybenzoat) (CAS# 94-26-8)             |          |
| - Phenylparaben (Phenyl-4-hydroxybenzoat) (CAS# 17696-62-7)        |          |
| <b>Benzophenones</b>   |          |
| - Benzophenone (CAS# 119-61-9)                                     |          |
| - Benzophenone 12 (CAS# 1843-05-6)                                 |          |
| - Benzophenone-2 (CAS# 131-55-5)                                   |          |
| - Benzophenone-3/Oxybenzon (CAS# 131-57-7)                         |          |
| - Benzophenone oxide (CAS# 90-47-1)                                |          |

| Substance  | Remarks |
|--|---------|
| <b>Other aromatic substances</b>                   |         |
| - Anthraquinone (CAS# 84-65-1)                     |         |
| - Isopropyl-9H-thioxanthen-9-one (CAS# 75081-21-9) |         |
| - Naphtalene (CAS# 91-20-3)                        |         |
| - PAH (Polycyclic aromatic hydrocarbons)           |         |
| - VAH (Volatile aromatic hydrocarbons)             |         |

## BIOBASED FEEDSTOCKS

| Substance  | Remarks |
|--|---------|
| Components derived from animals                              |         |
| Components derived from plants                               |         |
| Components derived from genetically modified organisms (GMO) |         |

## FLAME RETARDANTS

| Substance   | Remarks |
|---|---------|
| 2,2-Bis(chloromethyl)-propane-1,3-diyltetrakis (2-chloroethyl) bisphosphate (CAS# 38051-10-4) |         |
| 2-Ethylhexyl-2,3,4,5-tetrabromobenzoate (EHTBB) (CAS# 183658-27-7)                            |         |
| Bis(2-ethylhexyl) tetrabromophthalate (BEHTBP) (CAS# 26040-51-7)                              |         |
| Tris (1-chloro-2-propyl) phosphate (TCPP) (CAS# 13674-84-5)                                   |         |
| Tris (1,3-dichloropropyl-2) phosphate (TDCPP) (CAS# 13674-87-8)                               |         |
| Tris (2-chloroethyl) phosphate (TCEP) (CAS# 115-96-8)   |         |
| Triphenyl phosphate (TPP) (CAS# 115-86-6)   |         |
| <b>Polybrominated Diphenyl Ethers (PBDEs)</b>   |         |
| - DecaBDE (CAS# 1163-19-5)  |         |
| - OctaBDE (CAS# 32536-52-0)   |         |
| - PentaBDE (CAS# 32534-81-9)  |         |

## GLYCOL ETHERS

| Substance  | Remarks |
|--|---------|
| BDGA (Butyl diglycol acetate) (CAS# 124-17-4)                |         |
| EGBE (Ethylene glycol butyl ether) (CAS# 111-76-2)           | < 1 %   |
| EGDEE (Ethylene glycol di-ethyl ether) (CAS# 629-14-1)       |         |
| EGDME (Ethylene glycol di-methyl ether) (CAS# 110-71-4)      |         |
| EGEE (Ethylene glycol ethyl ether) (CAS# 110-80-5)           |         |
| EGEEA (Ethylene glycol ethyl ether acetate) (CAS# 111-15-9)  |         |
| EGME (Ethylene glycol methyl ether) (CAS# 109-86-4)          |         |
| EGMEA (Ethylene glycol methyl ether acetate) (CAS# 110-49-6) |         |
| DEGDME (Di-ethylene glycol di-methyl ether) (CAS# 111-96-6)  |         |
| DEGME (Di-ethylene glycol methyl ether) (CAS# 111-77-3)      |         |
| TEGDME (Tri-ethylene glycol di-methyl ether) (CAS# 112-49-2) |         |

## HALOGENATED ORGANIC SUBSTANCES

(Please also refer to the chapter halogenated aromatic substances and flame retardants)

| Substance   | Remarks |
|---|---------|
| Brominated substances   |         |
| Chlorinated substances (e. g. Shortchain chlorinated paraffins, PVC (Polyvinylchloride) (CAS# 9002-86-2), Tetrachloroethylene (CAS# 127-18-4), Vinyl chloride (CAS# 75-01-4), Polyvinylidene chloride (CAS# 9002-85-1)) |         |
| Fluorinated substances (e.g. polyfluorinated substances (PFAS), perfluorinated alkylsulfonates (PFAS), perfluorinated carboxylic acids (PFCA), fluorinated greenhouse gases)  |         |
| Halogenated hydro carbons (Group 1-9 according Regulation (EC) No 1005/2009 (substances that deplete the ozone layer) - status September 2009)  |         |

## (HEAVY) METALS AND THEIR COMPOUNDS

| Substance                                | Remarks |
|--|---------|
| Aluminum                                 |         |
| Antimony (e. g. Antimony oxide)          |         |
| Arsenic                                  |         |
| Barium                                   |         |
| Boron                                    |         |
| Cadmium                                  |         |
| Chromium (III)                           |         |
| Chromium (VI)                            |         |
| Cobalt                                   |         |
| Copper                                   |         |
| Lead                                     |         |
| Manganese                                |         |
| Mercury                                  |         |
| Nickel                                   |         |
| Selenium                                 |         |
| Silver                                   |         |
| Strontium                                |         |
| Tin (e. g. Tin organic compounds)        |         |
| Zinc (e. g. Zinc oxide (CAS# 1314-13-2)) |         |

## OPTICAL BRIGHTENERS

| Substance  | Remarks |
|--|---------|
| 1,2-Di(5-methyl-benziasoly)ethylene (CAS# 12224-12-3)  |         |
| 1,4-Bis(2-cyanostyryl)benzene (CAS# 13001-39-3)  |         |
| 1,4-Bis(4-cyanostyryl)benzene (CAS# 12001-40-6)  |         |
| 1,4-Bis-Benzoxazolyl-naphthalene (CAS# 5089-22-5)  |         |
| 1,4-Di[4-cyanostyryl]benzene (CAS# 58449-88-0)   |         |
| 2,2'-(1,2-ethenediyl)bis(4,1-phenylene)bisbenzoxazole (CAS# 1533-45-5)   |         |
| 2,2'-(2,5-thiophenediyl)bis(5-tert-butylbenzoxazole) (CAS# 7128-64-5)  |         |
| 4,4-Bis(2-methoxystyryl)biphenyl (CAS# 40470-68-6)   |         |
| 4,4'-Diamino-2,2'-stilbenedisulfonic acid (CAS# 81-11-8)   |         |
| 4-(4-cyanostyryl)benzene (CAS# 13001-38-2)   |         |
| Benzenesulfonic acid,2,2'-(1,2-ethenediyl)bis[5-4-[bis(2-hydroxyethyl)amino]-6-{(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]-, tetrasodium salt (CAS# 16470-24-9) |         |
| Bis(5-methyl-2-benzoxazolyl)stilbene (CAS# 2397-00-4)  |         |
| Diphenylethylene triazine (CAS# 12768-92-2)  |         |
| Disodium 4,4'-bis (2-sulfo styryl) biphenyl (CAS# 27344-41-8)  |         |
| Distyryl biphenyl (DSBP) (CAS# 54227-96-2)   |         |
| Umbelliferone (CAS# 93-35-6)   |         |

## PHTHALATES

| Substance   | Remarks |
|---|---------|
| BBP (Benzyl butyl phthalate) (CAS# 85-68-7)           |         |
| DAP (Diallyl phthalate) (CAS# 131-17-9)               |         |
| DBP (Dibutyl phthalate) (CAS# 84-74-2)                |         |
| DCHP (Dicyclohexyl phthalate) (CAS# 84-61-7)          |         |
| DEHP (Di-2-ethylhexyl phthalate) (CAS# 117-81-7)      |         |
| DHNUP (Di-C7-11-branched alkylphthalates)             |         |
| DHP (Di-n-hexylphthalate) (CAS# 84-75-3)              |         |
| DIBP (Diisobutyl phthalate) (CAS# 84-69-5)            |         |
| DIDP (Diisodecyl phthalate) (CAS# 26761-40-0)         |         |
| DIHP (Di-C6-8-branched alkylphthalates)               |         |
| DINP (2-Diisononyl phthalate) (CAS# 28553-12-0)       |         |
| DMEP (Bis-(2-methoxyethyl) phthalate) (CAS# 117-82-8) |         |
| DNOP (Di-n-octyl phthalate) (CAS# 117-84-0)           |         |
| DPENP (Di-n-pentyl phthalate) (CAS# 131-18-0)         |         |

## PLASTICIZERS

(Please also refer to the chapter PHTHALATES)

| Substance  | Remarks |
|--|---------|
| Chlorinated naphthalenes                             |         |
| Chlorinated paraffines (CAS# 85535-85-9, 85535-84-8) |         |
| Monocresyl phosphate (CAS# 14265-44-2)               |         |
| Monocresyl diphenyl phosphate (CAS# 26444-49-5)      |         |
| Tricresyl phosphate (CAS# 1330-78-5)                 |         |

## OTHERS

| Substance   | Remarks  |
|---|----------|
| 2,4 Diethylthioxanthone (CAS# 82799-44-8)   |          |
| Acetaldehyde (CAS# 75-07-0)   |          |
| Allergenic Fragrances (EG 1223/2009, Article 19)                                    |          |
| Ammonium nitrate (CAS# 6484-52-2)   |          |
| Asbestos  |          |
| Azo Dyes  |          |
| Crystalline silica and leucophyllite minerals containing crystalline silica         |          |
| Cyanuric acid (CAS# 108-80-5)   |          |
| Diacetone alcohol (CAS# 123-42-2)   |          |
| Dimethyl fumarate (CAS# 624-49-7)   |          |
| DMF (Dimethylformamide) (CAS# 68-12-2)  |          |
| Ethanol (CAS# 64-17-5)  |          |
| Food Allergens (EU Reg. 1169/2011)  |          |
| Formaldehyde (CAS# 50-00-0)   |          |
| HAP (Hazardous air pollutant) according to U.S. EPA Clean Air Act Section 112(b)(1) | < 0.05 % |
| IPBC (3-Iodo-2-propynyl butylcarbamate) (CAS# 55406-53-6)                           |          |
| Isocyanates   |          |
| Methanol (CAS# 67-56-1)   |          |
| Melamine (CAS# 108-78-1)  |          |
| Mineral oil   |          |
| Nanomaterials (according to Recommendation 2011/696/EU)                             |          |
| Natural rubber or dry rubber latex  |          |
| Nitrosamines  |          |
| N-(3-aminopropyl)-N-dodecylpropane-1, 3-diamine (CAS# 2372-82-9)                    |          |
| NMP (N-methyl-2-pyrrolidone) (CAS# 872-50-4)  |          |
| Ozone-Depleting Substances according U.S. EPA list, Class I and Class II            |          |
| Pentane-2,4-dione (CAS# 123-54-6)   |          |
| Persistent Organic Pollutants (POPs) according to Stockholm Convention              |          |
| PIC substances according to Rotterdam Convention                                    |          |
| Pesticides, which are not mentioned in the chapter Biocides                         |          |
| Photo-initiators  |          |
| Pigments  |          |
| Quaternary ammonium salts   |          |
| Radioactive substances  |          |
| Rare earth metals   |          |
| Sodium sulfite (CAS# 7757-83-7)   |          |
| Talc (CAS# 14807-96-9)  |          |
| Titanium dioxide  |          |

## FURTHER INFORMATION

## OTHER REGULATIONS

For the following Regulation detailed information are available on request.

- Conflict Minerals

Should you require any additional information regarding the regulatory status of SURFYNOL® CT-324, please do not hesitate to contact us!

## Disclaimer

The information given above is based on and represents our current compositional knowledge (based on the knowledge of the production process, supplier information for raw materials and analytical data where applicable).

Please note that Evonik Operations GmbH does not analyse whether the mentioned substances are contained, because the content of such substances is not part of our product specification or formulation.

We use raw materials of technical purity, therefore negligible amounts on the level of natural / technical impurities cannot be excluded.

In case of provided values these are considered to be typical concentrations and are not part of the product specification.

All provided information is based on our present knowledge and experience and is true and complete to the best of our knowledge and belief. However, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied.

In case of any questions concerning the provided information or if you need additional advice you are welcome to contact us:

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