Photocentric UV LCD Dental Model Beige Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 12/15/2020 Version: 2.0

I.1. Identification	
Product form Trade name Other means of identification	: Mixture : UV LCD Dental Model Beige : LDNDTBG01
I.2. Recommended use and restrictions	s on use
Use of the substance/mixture	: For use in Photocentric UV LCD Printers For use in DLP Printers
I.3. Supplier	
Supplier Photocentric Ltd Titan House 20 Titan Drive Peterborough, PE1 5XN - United Kingdom T +44 (0) 1733 349937 (UK Office hours only) info@photocentric.co.uk - https://photocentricc	
1.4. Emergency telephone number	
Emergency number	: +44 (0) 1733 349937 (UK Office hours only) 006235813220 x1009 (USA Office hours only)
	Transport Emergencies for US & CANADA: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC 1-800-424-9300 / +1 703- 527-3887 CCN 992854
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or n	
GHS US classification	
Skin sensitization, H317	May cause an allergic skin reaction
Category 1 Hazardous to the aquatic H412 environment – Chronic Hazard Category 3 Full text of H statements : see section 16	Harmful to aquatic life with long lasting effects
2.2. GHS Label elements, including pred	cautionary statements
GHS US labeling Hazard pictograms (GHS US)	
Signal word (GHS US) Hazard statements (GHS US)	 Warning H317 - May cause an allergic skin reaction H412 - Harmful to aquatic life with long lasting effects
Precautionary statements (GHS US)	 P261 - Avoid breathing fume, mist, spray, vapors. P272 - Contaminated work clothing must not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear eye protection, protective gloves. P302+P352 - If on skin: Wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

No additional information available

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2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	GHS US classification
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	(CAS-No.) 162881-26- 7	1 – 3	Aquatic Chronic 1, H410
Titanium Dioxide Paste	(CAS-No.) 13463-67-7	0.0495 - 0.494505	Carc. 2, H351
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether	(CAS-No.) 150-76-5	0.002412 – 0.0025125	Acute Tox. 4 (Oral), H302
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (Note D)	(CAS-No.) 15625-89-5	0 – 0.0001	Carc. 2, H351 Aquatic Chronic 2, H411

Note D - Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words 'non-stabilised'.

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures	
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Call a POISON CENTER or doctor/physician if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately rinse with water for a prolonged period while holding the eyelids wide open. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: If swallowed, seek medical advice immediately and show this container or label. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth out with water. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effect	ts (acute and delayed)
Symptoms/effects	: May be harmful in contact with skin.
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. May cause respiratory irritation.
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause an allergic skin reaction. Irritation.
Symptoms/effects after eye contact	: May cause eye irritation. Eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing media		
Suitable extinguishing media	: Water spray. Water spray. Dry powder. Foam. Carbon dioxide.	
Unsuitable extinguishing media	: Do not use a heavy water stream.	
5.2. Specific hazards arising from the che	emical	
Fire hazard	: In case of fire, irritating fumes come free.	
Explosion hazard	: No direct explosion hazard.	
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide.	

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5.3. Special protective equipment and p	recautions for fire-fighters
Precautionary measures fire	: Keep cool. Protect from sunlight. Keep container tightly closed and away from heat, sparks and flame.
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: High temperature decomposition products are harmful by inhalation. On exposure to high temperature, may decompose, releasing toxic gases.
SECTION 6: Accidental release mea	SIIRES
6.1. Personal precautions, protective ed	uipment and emergency procedures
General measures	: Avoid contact with skin and eyes. Clean up any spills as soon as possible, using an absorbent material to collect it. Evacuate area. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. See section 8 of the SDS for more information on personal protective equipment. Avoid contact with skin and eyes. Avoid breathing mist, spray, vapors.

6.1.2. For emergency responders

Protective equipment	Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. Use self-contained breathing apparatus and chemically protective clothing. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up For containment

For containment	For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up	: Take up liquid spill into absorbent material. This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

OFOTION 7. U.

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Additional hazards when processed	: Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment. Use only outdoors or in a well-ventilated area.
Handling temperature	: 10 – 50 °C
Hygiene measures	: Wear personal protective equipment. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, include	ing any incompatibilities
Technical measures	: Ensure adequate ventilation, especially in confined areas.
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	: < 25 °C
Storage area	: Store in a well-ventilated place.
Special rules on packaging	: Store in a closed container.
Packaging materials	: Store always product in container of same material as original container. Do not store in corrodable metal.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2.	Appropriate engineering controls		
Appro	opriate engineering controls	:	Ensure goo

Environmental exposure controls

Ensure good ventilation of the work station.Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

No respiratory protection needed under normal use conditions. In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties Information on basic physical and chemical properties 9.1. Physical state : Liquid Appearance : Liquid. Color : Beige Odor characteristic Odor threshold : No data available : No data available pН Melting point : Not applicable Freezing point : No data available Boiling point No data available Flash point : No data available Relative evaporation rate (butyl acetate=1) : No data available Flammability : Not applicable. Vapor pressure : No data available No data available Relative vapor density at 20°C · : No data available Relative density Solubility : No data available Partition coefficient n-octanol/water (Log Pow) : No data available Auto-ignition temperature : No data available Decomposition temperature No data available • No data availableViscosity, kinematic : No data available Viscosity, dynamic : 180 – 280 mPa·s **Explosion limits** No data available • : No data available Explosive properties

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Oxidizing properties	: No data available
0.2. Other information	
lo additional information available	
SECTION 10: Stability and reacti	vitv
0.1. Reactivity	
he product is non-reactive under normal co	onditions of use, storage and transport.
0.2. Chemical stability	
0.2. Onennear stability	
stable under normal conditions of use.	
0.3. Possibility of hazardous reaction	uns
lo dangerous reactions known under norm	
0.4. Conditions to avoid	
lone under recommended storage and har	Idling conditions (see section 7).
0.5. Incompatible materials	
No additional information available	
0.6. Hazardous decomposition proc	lucte
	e, hazardous decomposition products should not be produced.
Ű	
ECTION 11: Toxicological infor	
1.1. Information on toxicological eff	
Acute toxicity (oral)	: Not classified : Not classified
Acute toxicity (dermal) Acute toxicity (inhalation)	: Not classified
phenyl bis(2,4,6-trimethylbenzoyl)-phe	
LD50 oral rat LD50 dermal rat	 > 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.1 (Acute Toxicity (Oral)) > 2000 mg/kg body weight Animal: rat, Guideline: other:92/69/EEC
Titanium Dioxide Paste (13463-67-7)	> 5000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425
	(Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)
mequinol, 4-methoxyphenol, hydroqu	inone monomethyl ether (150-76-5)
LD50 oral rat	1600 mg/kg Source: HSDB, ChemIDplus, NITE
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: other:OECD No 423 Acute Oral Toxicity – Acute Toxic Class Method
ATE US (oral)	1600 mg/kg body weight
	3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate
(15625-89-5)	
LD50 oral rat	> 2000 mg/kg literature
LD50 dermal rabbit ATE US (dermal)	5170 mg/kg Source: RTECS 5170 mg/kg body weight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Titanium Dioxide Paste (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
- · ·	3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: Not classified
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STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)		
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: other:92/69/eec	
mequinol, 4-methoxyphenol, hydroquin	none monomethyl ether (150-76-5)	
LOAEL (oral,rat,90 days)	300 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
NOAEL (oral,rat,90 days)	150 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Guideline: other:EPA OPPTS 870.3650 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3 (15625-89-5)	-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	
NOAEL (oral,rat,90 days)	250 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
Symptoms/effects	: May be harmful in contact with skin.	
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. May cause respiratory irritation.	
Symptoms/effects after skin contact	: May be harmful in contact with skin. May cause an allergic skin reaction. Irritation.	
Symptoms/effects after eye contact	: May cause eye irritation. Eye irritation.	
Symptoms/effects after ingestion	: May be harmful if swallowed.	

SECT	ION 12: E	blogical information
12.1.	Toxicity	
Ecolog	gy - general	: Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)		
LC50 - Fish [1]	> 0.09 mg/l Test organisms (species): other:Zebra Fish Brachydanio rerio	
EC50 - Crustacea [1]	> 1.175 mg/l Test organisms (species): other aquatic crustacea:Daphnia Magna	
Titanium Dioxide Paste (13463-67-7)		
LC50 - Fish [1]	155 mg/l Test organisms (species): other:Japanese Medaka	
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna	
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna	
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether (150-76-5)		
LC50 - Fish [1]	28.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)	
EC50 - Crustacea [1]	3 mg/l Test organisms (species): Daphnia magna	
ErC50 algae	54.7 mg/l Source: EHCA	
LOEC (chronic)	> 1.45 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	0.68 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (15625-89-5)		
LC50 - Fish [1]	1.47 mg/l Test organisms (species): Leuciscus idus	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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mequinol, 4-methoxyphenol, hydroquinone monomethyl ether (150-76-5)		
Partition coefficient n-octanol/water (Log Pow)	1.23 Source: ECHA	
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (15625-89-5)		
Partition coefficient n-octanol/water (Log Pow)	2.86 Source: QSAR	
12.4. Mobility in soil		
No additional information available		

12.5. Other adverse effects

No additional information available

3.1. Disposal methods	
Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment. Comply with applicable regulations for solid waste disposal. Dispose in a safe manner in accordance with local/national regulations. Disposal must be done according to official regulations.
Additional information	: Clean up even minor leaks or spills if possible without unnecessary risk. Consult an expert on waste disposal or treatment. Do not re-use empty containers.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

UV LCD Dental Model Beige

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	CAS-No. 162881-26-7	1 – 3%
Titanium Dioxide Paste	CAS-No. 13463-67-7	0.0495 - 0.494505%
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether	CAS-No. 150-76-5	0.002412 - 0.0025125%
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate	CAS-No. 15625-89-5	0 – 0.0001%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)				
EPA TSCA Regulatory Flag PMN - PMN - indicates a commenced PMN substance.				
15.2. International regulations				
CANADA				
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)				
Listed on the Canadian DSL (Domestic Substances List)				
Titanium Dioxide Paste (13463-67-7)				
Listed on the Canadian DSL (Domestic Substances List)				
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether (150-76-5)				
Listed on the Canadian DSL (Domestic Substances List)				
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (15625-89-5)				
Listed on the Canadian DSL (Domestic Substances List)				
EU-Regulations No additional information available National regulations				
UV LCD Dental Model Beige				
Not listed on the United States TSCA (Toxic Substances Control Act) inventory				
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide (162881-26-7)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)				
Titanium Dioxide Paste (13463-67-7)				
Listed on IARC (International Agency for Research on Cancer) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)				
mequinol, 4-methoxyphenol, hydroquinone monomethyl ether (150-76-5)				
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)				
2-ethyl-2-[[(1-oxoallyl) oxy] methyl]-1,3-propanediyl diacrylate; 2,2-bis (acryloyloxymethyl)butyl acrylate; trimethylolpropane triacrylate (15625-89-5)				
Listed on IARC (International Agency for Research on Cancer) Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)				
15.3. US State regulations				

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases:

H302	Harmful if swallowed
H317	May cause an allergic skin reaction
H351	Suspected of causing cancer
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms:

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ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.