# **SAFETY DATA SHEET**

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Europe

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

1.1 Product identifier

Product name : Tau HD Ink - Yellow

Product code : 1690170

Trade name : Yellow
Tau HD Ink

Date of issue/ Date of revision : 22 August 2017

Version : 1.03

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

Identified uses				
Colorant; Printing ink related material; Printing ink.				

Uses advised against	Reason
Not applicable.	

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

Manufacturer/ Distributor : Durst Phototechnik AG

Julius-Durst-Strasse 4

39042 Brixen

Italy

Tel: +39 0472 810111 Fax: +39 0472 830980

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970

### **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]

Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Repr. 2, H361f (Fertility) STOT RE 1, H372 Aquatic Chronic 3, H412

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### SECTION 2: Hazards identification

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

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

#### 2.2 Label elements

Hazard pictograms





Signal word : Danger

prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

**Prevention**: Wear protective gloves. Wear eye or face protection. Obtain special instructions

before use. Do not eat, drink or smoke when using this product.

**Response** : **▼** exposed or concerned: Get medical attention. IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

and international regulations.

Hazardous ingredients : Dexamethylene diacrylate

1-vinylhexahydro-2H-azepin-2-one (5-ethyl-1,3-dioxan-5-yl)methyl acrylate

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2-phenoxyethyl acrylate

2,2-bis(acryloyloxymethyl)butyl acrylate Glycerol, propoxylated, esters with acrylic acid

2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one

Supplemental label

elements

: Not applicable.

2.3 Other hazards

Other hazards which do not result in classification

: None known.

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

Substance/mixture : Mixture

Product/ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
xexamethylene diacrylate	REACH #: 01-2119484737-22 EC: 235-921-9 CAS: 13048-33-4 Index: 607-109-00-8	25 < 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
1-vinylhexahydro-2H-azepin-2-one	REACH #: 01-2119977109-27 EC: 218-787-6 CAS: 2235-00-9	10 < 20	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372 (liver) (inhalation)	[1]

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

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate	REACH #: 01-2119976303-36 EC: 266-380-7 CAS: 66492-51-1	5 < 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
phenyl bis(2,4,6-trimethylbenzoyl)- phosphine oxide	EC: 423-340-5 CAS: 162881-26-7 Index: 015-189-00-5	3 < 5	Skin Sens. 1A, H317 Aquatic Chronic 4, H413	[1]
diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	EC: 278-355-8 CAS: 75980-60-8	3 < 5	Repr. 2, H361f (Fertility) Aquatic Chronic 2, H411	
Oligo[2-hydroxy-2-methyl-1-[4- (1-methylvinyl)phenyl]propanone]	REACH #: 01-0000015270-82 CAS: proprietary	1.0 < 3.0	Repr. 2, H361f (Fertility)	[1]
Epoxy Acrylate Oligomer	CAS: PROPRIETARY	1.0 < 2.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
2-hydroxy-2-methylpropiophenone	EC: 231-272-0 CAS: 7473-98-5	1.0 < 2.5	Acute Tox. 4, H302 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	[1]

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 or vPvBs 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

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery

position and seek medical advice.

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with room

temperature water for at least 15 minutes, keeping eyelids open. In case of accidental eye contact, avoid concurrent exposure to the sun or other sources of UV

light which may increase the sensitivity of the eyes.

**Inhalation**: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners. In case of accidental skin contact, avoid concurrent exposure to the sun or other sources of

UV light which may increase the sensitivity of skin.

**Ingestion**: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

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### **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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion may cause nausea, weakness and central nervous system effects.

Contains hexamethylene diacrylate, 1-vinylhexahydro-2H-azepin-2-one, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide, 2-phenoxyethyl acrylate, 2,2-bis(acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, 2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one. May produce an allergic reaction.

The following products have sensitizing properties: hexamethylene diacrylate, 1-vinylhexahydro-2H-azepin-2-one, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. Cases of hypersensitivity may occur, possibly with cross-sensitization to other acrylate materials.

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

Notes to medical doctor

: 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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Unsuitable extinguishing

media

: Do not use water jet.

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

Hazards from the substance or mixture

: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

Special protective equipment for fire-fighters

: Appropriate breathing apparatus may be required.

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### SECTION 5: Firefighting measures

### SECTION 6: Accidental release measures

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

For non-emergency personnel

: Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist.

Refer to protective measures listed in sections 7 and 8.

For emergency responders: If specialized 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

: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

: 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 (see Section 13). Preferably clean with a detergent. Avoid using solvents.

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**

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used, without Personal Protective Equipment measures.

7.1 Precautions for safe handling

: Use only in well-ventilated areas.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Keep container tightly closed. Keep away from heat, sparks and flame.

Always keep in containers made from the same material as the original one.

Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel.

Eating, drinking and smoking should be prohibited in areas where this material is

handled, stored and processed.

Comply with the health and safety at work laws.

7.2 Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 5 - 35 °C

Keep away from heat and direct sunlight.

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to

prevent leakage. Keep only in the original container.

Keep away from heat and direct sunlight.

### 7.3 Specific end use(s)

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# SECTION 7: Handling and storage

· Not available. Recommendations · Not available. Industrial sector specific

solutions

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

procedures

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

#### **DNELs/DMELs**

Product/ ingredient name	Туре	Exposure	Value	Population	Effects
hexamethylene diacrylate		Long term Inhalation Long term Dermal, Inhalation	24.48 mg/m³ 2.77 mg/kg bw/day	Workers Workers	Systemic Systemic
1-vinylhexahydro-2H-azepin-2-one	DNEL	Long term Inhalation Long term Inhalation Long term Dermal	4.9 mg/m³ 0.17 mg/m³ 0.7 mg/kg bw/day	Workers Workers Workers	Systemic Local Systemic

### **PNECs**

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
hexamethylene diacrylate	-	Fresh water	0.0015 mg/l	-
,	-	Marine water	0.00015 mg/l	-
	-	Sewage Treatment Plant	2.7 mg/l	-
	-	Fresh water sediment	0.0243 mg/kg dwt	-
	-	Marine water sediment	0.00243 mg/kg	-
			dwt	
	-	Soil	0.00397 mg/kg	-
			dwt	
1-vinylhexahydro-2H-azepin-2-one	-	Fresh water	0.1 mg/l	-
	-	Marine water	0.01 mg/l	-
	-	Sewage Treatment Plant	262 mg/l	-
	-	Fresh water sediment	0.829 mg/kg	-
	-	Marine water sediment	0.0829 mg/kg	-
	-	Soil	0.107 mg/kg	-

### 8.2 Exposure controls

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### SECTION 8: Exposure controls/personal protection

### Appropriate engineering controls

: Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

### Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Skin protection **Hand protection** 

Gloves

: Use safety eyewear designed to protect against splash of liquids.

: Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

: 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.

**Gloves** "RadTech recommend use of:

> -single use: disposable, unpowdered, nitrile gloves: Use for short duration exposures not exceeding 30 minutes, in situations where only splashes are likely. Do not use where mechanical resistance is required or where puncturing or tearing of the gloves is likely to occur. Replace immediately if punctured, degraded or tearing of the gloves has occurred.

> -general use: minimum 0.45mm thick, unlined, unpowdered, natural rubber latexfree nitrile gloves: Use for longer duration exposure (up to 4 hours for most UV/EB curing acrylates) or mechanical handling activities. Replace immediately when punctured or when a change of appearance (colour, elasticity, shape) occurs - heavy duty: unlined, natural rubber latex-free nitrile gloves: Use when handling solvents. Avoid the use of chlorinated solvents and limit the use of ketones (e.g. acetone, MEK, MIBK) and ethyl and butyl acetates, as they may accelerate glove

deterioration."

**Body protection** : Personnel should wear protective clothing.

Respiratory protection : In situations where misting or flying may occur, use appropriate certified respirators.

**Environmental exposure** : Do not allow to enter drains or watercourses.

controls

# SECTION 9: Physical and chemical properties

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

**Physical state** : Liquid. Color : Yellow.

Odor : Characteristic. : Not applicable. **Odor threshold** Melting point/freezing point : Not applicable.

Flash point : 96°C VOC : 0%

Нα : Not tested

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

Boiling point : Lowest known value: 220°C (431°F)

**Evaporation rate** : Highest known value: <1 (Alkyl Acrylate Ester) Weighted average: 0.9compared

with butyl acetate

Upper/lower flammability or

explosive limits

: Not tested

Vapor pressure : Not tested
Vapor density : Not tested
Relative density : Not tested
Solubility(ies) : Not tested
Partition coefficient: n-octanol/ : Not applicable.

water

Auto-ignition temperature: Not applicable.Decomposition temperature: Not applicable.Viscosity: Not testedExplosive properties: Not applicable.Oxidizing properties: Not applicable.

#### 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** : Hazardous reactions or instability may occur under certain conditions of storage or

use.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : This mixture contains materials which are unstable under the following conditions:

exposure to heat, strong UV sources. These could cause the product to polymerize

exothermically. Unintentional contact with them should be avoided.

**10.5 Incompatible materials**: Keep away from: free radical initiators, peroxides, strong alkalis, reactive metals.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

**Hazardous polymerization**: May polymerize on exposure to sunlight.

# **SECTION 11: Toxicological information**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure.

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# **SECTION 11: Toxicological information**

If splashed in the eyes, the liquid may cause irritation and reversible damage.

The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.

Ingestion may cause nausea, weakness and central nervous system effects.

Contains hexamethylene diacrylate, 1-vinylhexahydro-2H-azepin-2-one, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide, 2-phenoxyethyl acrylate, 2,2-bis(acryloyloxymethyl)butyl acrylate, Glycerol, propoxylated, esters with acrylic acid, 2,6-bis(1,1-dimethylethyl)-4-(phenylenemethylene)cyclohexa-2,5-dien-1-one. May produce an allergic reaction.

The following products have sensitizing properties: hexamethylene diacrylate, 1-vinylhexahydro-2H-azepin-2-one, (5-ethyl-1,3-dioxan-5-yl)methyl acrylate, phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide. Cases of hypersensitivity may occur, possibly with cross-sensitization to other acrylate materials.

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	<b>Exposure</b>
hexamethylene diacrylate	LD50 Oral	Rat	5 g/kg	_
1-vinylhexahydro-2H-azepin-	LD50 Dermal	Rat	>2000 mg/kg	-
2-one				
	LD50 Oral	Rat	1400 mg/kg	-
2-hydroxy-	LD50 Dermal	Rat	6929 mg/kg	-
2-methylpropiophenone				
	LD50 Oral	Rat	1694 mg/kg	-

### Irritation/Corrosion

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### **Sensitization**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### Mutagenicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### **Carcinogenicity**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### Reproductive toxicity

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

#### **Teratogenicity**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

### Specific target organ toxicity (single exposure)

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-vinylhexahydro-2H-azepin-2-one	Category 1	Inhalation	liver

### **Aspiration hazard**

Not determined - Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

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# **SECTION 12: Ecological information**

There are no data available on the mixture itself.

Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

### 12.1 Toxicity

Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
examethylene diacrylate phenyl bis(2,4,	2.81 5.77	-	low high
6-trimethylbenzoyl)- phosphine oxide			
diphenyl(2,4, 6-trimethylbenzoyl)	-	53 to 72	low
phosphine oxide 2-hydroxy- 2-methylpropiophenone	1.62	-	low

### 12.4 Mobility in soil

Soil/water partition

coefficient (Koc)

: 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**

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

For further information, contact your local waste authority.

#### 13.1 Waste treatment methods

### **Product**

Methods of disposal

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

### **Packaging**

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### **SECTION 13: Disposal considerations**

Methods of disposal

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

European Waste Catalogue (EWC):

Special precautions

: 08 03 12 waste ink containing hazardous substances

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of

spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.3 Transport hazard class(es)	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	The product is only regulated as a dangerous good when transported in tank vessels.	-	-

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 and the IBC Code

: Not available.

# SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

Substances of very high concern

None of the components are listed.

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# SECTION 15: Regulatory information

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
diphenyl(2,4, 6-trimethylbenzoyl) phosphine oxide	-	-	-	Repr. 2, H361f (Fertility)
Oligo[2-hydroxy-2-methyl- 1-[4-(1-methylvinyl)phenyl] propanone]	-	-	-	Repr. 2, H361f (Fertility)

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

15.2 Chemical Safety Assessment

: No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

CEPE code : 4

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

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
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361f (Fertility)	Calculation method
STOT RE 1, H372	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H

statements

: H302 Harmful if swallowed. H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H361f Suspected of damaging fertility.

(Fertility)

H372 Causes damage to organs through prolonged or repeated exposure if

(liver) inhaled. (liver)

(inhalation)

H372 Causes damage to organs through prolonged or repeated exposure.

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### **SECTION 16: Other information**

H411 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.

Full text of classifications [CLP/GHS]

: Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4
Aquatic Chronic 2, H411 AQUATIC HAZARD (LONG-TERM) - Category 3
Aquatic Chronic 4 H413 AQUATIC HAZARD (LONG-TERM) - Category 4

Aquatic Chronic 4, H413 AQUATIC HAZARD (LONG-TERM) - Category 4
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 2, H361f (Fertility) TOXIC TO REPRODUCTION (Fertility) - Category 2

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

Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1
Skin Sens. 1A, H317 SKIN SENSITIZATION - Category 1A

STOT RE 1, H372 (liver) SPECIFIC TARGET ORGAN TOXICITY (REPEATED

(inhalation) EXPOSURE) (liver) (inhalation) - Category 1

STOT RE 1, H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) - Category 1

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Notice to reader

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

### **Annex**

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