

# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 12/5/2024 Version: 5.0

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

### 1.1. Product identifier

Product form : Mixture

: ECO-UV, EUV4-CY Trade name

ECO-UV, EUV4-5CY : 56RE-EWYS-7DK3-VFGE

UFI

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

#### Relevant identified uses

: Professional use Main use category : Inkjet Printing ink Function or use category

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

#### Manufacturer

Roland DG Corporation

1-1-2 Shinmiyakoda, Hamana-ku,

Hamamatsu-shi, Shizuoka-ken, 431-2103 Japan

〒431-2103

T +81-53-484-1200

#### Supplier

Roland DG EMEA N.V.

Bell Telephonelaan 2G, 2440 Geel, Belgium

T +32 (0) 14 57 59 11

deu-demand-planning@rolanddg.com

# 1.4. Emergency telephone number

Country/Area	Organisation/Company	Emergency number	Comment
Ireland	Poisons Information Centre of Ireland	+353 18 37 99 64 (medical professionals) +353 18 09 21 66 (public)	
Malta	Malta Competition and Consumer Affairs Authority (MCCAA)	+356 2395 2000 1774 helpline for accidental poisoning	
United Kingdom	Emergency number England	999 NHS 111	or call a doctor

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 1 H318 Skin sensitisation, Category 1 H317 Reproductive toxicity, Category 1B H360 Specific target organ toxicity - Repeated exposure, Category 2 H373 Hazardous to the aquatic environment - Chronic Hazard, H410

Category 1



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Full text of H- and EUH-statements: see section 16

#### Adverse physicochemical, human health and environmental effects

Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful in contact with skin. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms (CLP)









Signal word (CLP) : Danger

Contains

2-Propenoic acid, phenylmethyl ester; 2-Propenoic acid, 1,6-hexanediyl ester; Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-; phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide; N-VINYL CAPROLACTAM; 2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-

propenyl)oxy]methyl]-1,3-propanediyl ester; 2-Propenoic acid, (tetrahydro-2-furanyl)methyl

ester

Hazard statements (CLP) : H315 - Causes skin irritation.

> H317 - May cause an allergic skin reaction. H318 - Causes serious eye damage.

H360 - May damage fertility or the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P273 - Avoid release to the environment.

#### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %



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# SECTION 3: Composition/information on ingredients

# 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Propenoic acid, phenylmethyl ester	CAS-No.: 2495-35-4 EC-No.: 219-673-9 REACH-no: 01-2120772339-	50 – 60	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 1, H410
2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester	CAS-No.: 15625-89-5 EC-No.: 239-701-3 EC Index-No.: 607-111-00-9	10 – 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-substance listed as REACH Candidate	CAS-No.: 75980-60-8 EC-No.: 278-355-8 EC Index-No.: 015-203-00-X REACH-no: 01-2119972295- 29	5 – 10	Skin Sens. 1, H317 Repr. 1B, H360
N-VINYL CAPROLACTAM	CAS-No.: 2235-00-9 EC-No.: 218-787-6 REACH-no: 01-2119977109- 27	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=1114 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1700 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT RE 1, H372
Copper compound	-	1 – 5	Not classified
phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	CAS-No.: 162881-26-7 EC-No.: 423-340-5 EC Index-No.: 015-189-00-5	1 – 5	Skin Sens. 1A, H317 Aquatic Chronic 4, H413
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester	CAS-No.: 2399-48-6 EC-No.: 219-268-7	1 – 5	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360 Aquatic Chronic 2, H411
2-Propenoic acid, 1,6-hexanediyl ester	CAS-No.: 13048-33-4 EC-No.: 235-921-9 EC Index-No.: 607-109-00-8 REACH-no: 01-2119484737- 22	0 – 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

Full text of H- and EUH-statements: see section 16



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#### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if

you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

First-aid measures for first aider : First aid workers will be equipped with suitable personal protective equipment.

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

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.

Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes. Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Explosion hazard : No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

## 5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. 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.

# **SECTION 6: Accidental release measures**

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

General measures : Stop leak if safe to do so. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

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Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact

with skin, eyes and clothing.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

## 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry

into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

# **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not

handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes,

on skin, or on clothing.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

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

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions : Store locked up.

Packaging materials : Store always product in container of same material as original container.

## 7.3. Specific end use(s)

Inkjet Printing ink.



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# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

## **DNEL and PNEC**

2-Propenoic acid, 1,6-hexanediyl ester (13048-33-4)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	2.77 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	24.5 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	2.1 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	7.2 mg/m³		
Long-term - systemic effects, dermal	1.66 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	0.00723 mg/l		
PNEC aqua (marine water)	0.000723 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0.493 mg/kg dwt		
PNEC sediment (marine water)	0.0493 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.094 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	2.7 mg/l		
Copper compound			
DNEL/DMEL (Workers)			
Acute - local effects, inhalation	10 mg/m³		
Long-term - local effects, inhalation	10 mg/m³		
N-VINYL CAPROLACTAM (2235-00-9)	N-VINYL CAPROLACTAM (2235-00-9)		
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	0.7 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	4.9 mg/m³		
Long-term - local effects, inhalation	0.17 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.4 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	1.04 mg/m³		



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N-VINYL CAPROLACTAM (2235-00-9)		
Long-term - systemic effects, dermal	0.42 mg/kg bodyweight/day	
Long-term - local effects, inhalation	0.04 mg/m³	
2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propeny	/l)oxy]methyl]-1,3-propanediyl ester (15625-89-5)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	404 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	17.1 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.87 μg/l	
PNEC aqua (marine water)	0.087 μg/l	
PNEC aqua (intermittent, freshwater)	8.7 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.017 mg/kg dwt	
PNEC sediment (marine water)	0.0017 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.0029 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	10 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	6.25 mg/l	
2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester (2399-48-6)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	4.9 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	1.73 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.18 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	0.3 mg/m³	
Long-term - systemic effects, dermal	1.75 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	3.92 µg/l	
PNEC aqua (marine water)	0.392 μg/l	
PNEC aqua (intermittent, freshwater)	39.2 µg/l	



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2-Propenoic acid, (tetrahydro-2-furanyl)methyl ester (2399-48-6)		
PNEC (Sediment)		
PNEC sediment (freshwater)	0.0206 mg/kg dwt	
PNEC sediment (marine water)	0.0021 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.0018 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2.637 mg/l	

## 8.2. Exposure controls

#### **Appropriate engineering controls**

### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Personal protection equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

### Eye and face protection

## Eye protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear EN166 approved safety glasses or chemical splash goggles.

## Skin protection

## Skin and body protection:

Not required under suitable use as setting the ink on the printer. However, in case of direct contact to the ink, wear protective clothing.

### Hand protection:

Employee must wear appropriate protective impervious gloves to prevent contact with the ink. Recommended Chemical Protective Gloves are EN420/374 approved ethylene vinyl alcohol (EVOH) Gloves and Laminate gloves. Laminate gloves are made by cutting and then heat-sealing patterns of various hand sizes from laminated sheets of EVOH sealed between layers of polyethylene.

## **Respiratory protection**

## Respiratory protection:

In case of inadequate ventilation and exposure limits are exceeded or if irritation or other symptoms are experienced, use a NIOSH/MSHA or European Standard EN149 approved respirator (with activated carbon layer for organic vapour).

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Avoid release to the environment.

#### Other information:

Wash hands immediately after handling the product. And wash it before reuse. Do not eat, drink or smoke during work.



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

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Cyan. Appearance : Liquid. Odour : characteristic. Odour threshold : Not available Melting point : Not applicable Freezing point : Not available Boiling point : Not available Flammability : No data available Lower explosion limit : Not available Upper explosion limit : Not available : > 70 °C Flash point : Not available Auto-ignition temperature Decomposition temperature : Not available : Not available рΗ Viscosity, kinematic : Not available

Solubility : Soluble in water with difficulty.

Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available Density : 1 – 1.1 Relative density : Not available Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

## 9.2. Other information

## Other safety characteristics

SAPT : > 50 °C VOC content : > 0.061 g/l

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

## 10.2. Chemical stability

Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

## 10.4. Conditions to avoid

None under recommended storage and handling conditions.



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## 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, oxides of nitrogen, toxic gases/vapors.

## **SECTION 11: Toxicological information**

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Skin corrosion/irritation : Causes skin irritation.
pH: Not available

Serious eye damage/irritation : Causes serious eye damage.

pH: Not available

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : IARC evaluated printing ink as a Group3(Not classifiable as to carcinogenicity to humans).

## 2-Propenoic acid, 2-ethyl-2-[[(1-oxo-2-propenyl)oxy]methyl]-1,3-propanediyl ester (15625-89-5)

IARC group 2B - Possibly carcinogenic to humans

Reproductive toxicity : May damage fertility or the unborn child.

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

## 11.2. Information on other hazards

No additional information available

# **SECTION 12: Ecological information**

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term : Very toxic to aquatic life with long lasting effects.

(chronic)

## 12.2. Persistence and degradability

ECO-UV, EUV4-CY ECO-UV, EUV4-5CY	
Persistence and degradability	No data available.

: Not classified (Based on available data, the classification criteria are not met).



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## 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

# 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment 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 : Disposal must be done according to official regulations.

Additional information : Do not re-use empty containers.

European List of Waste (LoW, EC 2000/532) : 08 03 12\* - waste ink containing dangerous substances

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
Special provision(s)				
applied : 375	applied : 969	applied : A197	applied : 375	applied : 375

These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.8.

## 14.1. UN number or ID number

UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipping	g name			
ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS
SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,		SUBSTANCE, LIQUID,	SUBSTANCE, LIQUID,
N.O.S.	N.O.S.		N.O.S.	N.O.S.



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ADR	IMDG	IATA	ADN	RID
ADR	IMDG	IATA	ADN	עוא
Transport document descr	iption			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
14.3. Transport hazard of	class(es)			
9	9	9	9	9
**************************************	**************************************	**************************************	**************************************	**************************************
14.4. Packing group	14.4. Packing group			
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes EmS-No. (Fire): F-A EmS-No. (Spillage): S-F	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

# 14.6. Special precautions for user

### **Overland transport**

Classification code (ADR) : M6

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5I Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T4
Portable tank and bulk container special provisions : TP1, TP29

(ADR)

Tank code (ADR) : LGBV
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

Hazard identification number (Kemler No.) : 90



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Orange plates

90 3082

Tunnel restriction code (ADR)

EAC code •3Z

Transport by sea

: 274, 335, 969 Special provisions (IMDG)

Limited quantities (IMDG) : 5 L Excepted quantities (IMDG) : E1 : LP01, P001 Packing instructions (IMDG) : PP1 Special packing provisions (IMDG) : IBC03 IBC packing instructions (IMDG) Tank instructions (IMDG) : T4 Tank special provisions (IMDG) : TP1, TP29 : A

Stowage category (IMDG)

Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) : Y964 PCA limited quantity max net quantity (IATA) 30kgG PCA packing instructions (IATA) : 964 PCA max net quantity (IATA) : 450L CAO packing instructions (IATA) : 964 CAO max net quantity (IATA) : 450L

Special provisions (IATA) : A97, A158, A197, A215

ERG code (IATA) : 9L

**Inland waterway transport** 

Classification code (ADN) : M6

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 L Excepted quantities (ADN) : E1 Carriage permitted (ADN) : T Equipment required (ADN) : PP Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : M6

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5L : E1 Excepted quantities (RID)

: P001, IBC03, LP01, R001 Packing instructions (RID)

: PP1 Special packing provisions (RID) Mixed packing provisions (RID) : MP19 : T4 Portable tank and bulk container instructions (RID) Portable tank and bulk container special provisions : TP1, TP29

(RID)

Tank codes for RID tanks (RID) : LGBV Transport category (RID) : 3 Special provisions for carriage - Packages (RID) : W12



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Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 90

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## **SECTION 15: Regulatory information**

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU-Regulations**

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Phosphine oxide, diphenyl(2,4,6-trimethylbenzoyl)-(EC 278-355-8, CAS 75980-60-8)

## **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

## Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

#### **Dual-Use Regulation (428/2009)**

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

## VOC Directive (2004/42)

VOC content : 0.061 g/l

## **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

## **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

# 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

# **Abbreviations and acronyms:**

ADN European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways



# Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
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	
IATA	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	



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Abbreviations and acronyms:	
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H360	May damage fertility or the unborn child.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1	
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2	

RDG Safety Data Sheet (SDS), EU



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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.