

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
Issue date: 2/10/2026 Version: 1.0

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

#### 1.1. Product identifier

Product form	: Substance (UVCB)
Trade name	: ORLEcrystal <sup>56</sup>
Chemical name	: Paraffin waxes (coal), brown-coal-high-temp. tar, hydrotreated; Coal Tar Extract; [A complex combination of hydrocarbons obtained from lignite carbonization tar by solvent crystallisation (solvent deoiling), by sweating or an adducting process treated with hydrogen in the presence of a catalyst. It consists predominantly of straight and branched chain saturated hydrocarbons having carbon numbers predominantly greater than C12.]
EC-No.	: 265-154-5
CAS-No.	: 64742-51-4
REACH registration No.	: 01-2119480133-46-0014
Product group	: Trade product

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

##### Relevant identified uses

Main use category	: Industrial use, Consumer use
Use of the substance/mixture	: Manufacture of substances
Use of the substance/mixture	: Intermediates
	Distribution of substance
	Formulation (re)packing of substances and mixtures
	manufacture of binders or hardeners for coating materials or adhesives
	Fertilisers and fertilising products
	Manufacture of rubber products
	Manufacture of plastics products, including compounding and conversion
	Candles - scented and unscented
	Laboratory chemicals
	Construction materials additives
	Paper industry
	Lubricants and additives
	Consumer uses

##### Uses advised against

Restrictions on use	: Other uses
---------------------	--------------

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

ORLEN Południe S.A.  
Fabryczna 22  
32-540 Trzebinia  
Poland  
T +48 24 201 00 00, F +48 24 367 74 14  
E-mail address of competent person responsible for the SDS : [reach.poludnie@orlen.pl](mailto:reach.poludnie@orlen.pl)

#### 1.4. Emergency telephone number

Emergency number	: +48 24 201 00 00 Emergency number 112
------------------	--

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Not classified

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

No labelling applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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

### Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	ORLEcrystal <sup>56</sup> (64742-51-4)
--	--

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	ORLEcrystal <sup>56</sup> (64742-51-4)
---	--

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Substance type : UVCB

Name	Product identifier	%
ORLEcrystal <sup>56</sup> (Note N)	CAS-No.: 64742-51-4 EC-No.: 265-154-5 REACH-no: 01-2119480133-46-0014	$\geq 99.95$

Note N: The harmonised classification as a carcinogen applies unless the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen, in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Gently wash with plenty of soap and water. The hot liquid may cause severe skin burns. Cool skin rapidly with cold water after contact with hot product. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : Rinse eyes with water as a precaution. Remove contact lenses, if present and easy to do. Continue rinsing. Direct contact with the eyes is likely to be irritating. Obtain medical attention if pain, blinking or redness persists.
- First-aid measures after ingestion : If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Do NOT induce vomiting. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : May cause headache, nausea and irritation of respiratory tract.

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

Move the affected person away from the contaminated area and into the fresh air. Keep victim under observation. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Water fog. Dry powder. Carbon dioxide (CO<sub>2</sub>).  
Unsuitable extinguishing media : Strong water jet.

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

Fire hazard : Keep only in the original container at a temperature not exceeding the flash point.  
Reactivity in case of fire : When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, nitrogen oxides (NO<sub>x</sub>), NH<sub>3</sub>, sulphur compounds.  
Hazardous decomposition products in case of fire : Toxic fumes may be released. Keep at temperature not exceeding the flash point.

### 5.3. Advice for firefighters

Precautionary measures fire : Keep container tightly closed and away from heat, sparks and flame.  
Firefighting instructions : Evacuate area. Do not enter fire area without proper protective equipment, including respiratory protection. Prevent fire fighting water from entering the environment.  
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

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : In case of contamination of soil or water bodies notify the competent authorities. Do not allow run-off from fire-fighting to enter drains or water courses.

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

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Notify authorities if liquid enters sewers or public waters.

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

For containment : Do not touch or walk on the spilled product. Contain large spillage with sand or earth. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.  
Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hygiene measures : 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

Storage conditions : Keep cool. Protect from sunlight. Store in a well-ventilated place. Protect from moisture. Store finished products in closed containers (e.g, bulk tanks, drums, cans). Store in original container. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials : Strong oxidizing agents.

Heat and ignition sources : Keep away from any flames or sparking source. Smoking is forbidden.

Storage area : Store away from heat. Protect from frost. Protect from sunlight. Store in a well-ventilated place.

#### Germany

Storage class (LGK, TRGS 510) : LGK 13 - Non-combustible solids

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for : LGK 1, LGK 6.2, LGK 7

Joint storage with restrictions permitted for : LGK 4.1A, LGK 5.1C

Joint storage permitted for : LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

#### Switzerland

Storage class (LK) : NG - Non-hazardous

### 7.3. Specific end use(s)

No additional information.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

##### ORLEcrystal<sup>56</sup> (64742-51-4)

##### Poland - Occupational Exposure Limits

NDS (OEL TWA)	2 mg/m <sup>3</sup>
OEL chemical category	E (Inhalable fraction)
Regulatory reference	Rozporządzenie Ministra Pracy i Polityki Społecznej z dnia 12 czerwca 2018 r. w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy

### 8.2. Exposure controls

#### Appropriate engineering controls

##### Appropriate engineering controls:

Always wash hands after handling the product. Do not eat, drink or smoke during use. Ensure good ventilation of the work station.

#### Personal protection equipment

##### Personal protective equipment:

Wear recommended personal protective equipment.

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

### Hand protection:

Protective gloves against chemicals (EN 374)

### Respiratory protection

#### Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

### Thermal hazards

#### Thermal hazard protection:

Use insulated gloves, impervious apron, long sleeves and other protective clothing when handling this material hot.

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Consumer exposure controls:

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008.

## SECTION 9: Physical and chemical properties

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

Physical state	: Solid
Colour	: white.
Odour	: odourless. characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: 54 – 58 °C
Boiling point	: ≥ 300 °C
Flammability	: Non flammable.
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: ≥ 180 °C
Auto-ignition temperature	: ≥ 250 °C
Decomposition temperature	: Not available
pH	: ≈ 7
pH solution	: Not available
Viscosity, kinematic	: 2.5 – 4.5 mm <sup>2</sup> /s
Solubility	: Soluble in hydrocarbons. Material insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: In this case, it does not apply
Vapour pressure	: Negligible vapour pressure at ambient conditions
Vapour pressure at 50°C	: Not available
Density	: ≈ 755 kg/m <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Not available

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 9.2. Other information

No additional information available

## 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

No flames, no sparks. Eliminate all sources of ignition. Keep only in the original container at a temperature not exceeding the flash point.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### ORLEcrystal<sup>56</sup> (64742-51-4)

LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Not classified  
pH: ≈ 7  
Serious eye damage/irritation : Not classified  
pH: ≈ 7  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified

#### ORLEcrystal<sup>56</sup> (64742-51-4)

NOAEL (animal/male, F0/P)	≥ 1000 mg/kg bodyweight Reproductive toxicity
NOAEL (animal/male, F1)	≥ 5000 mg/kg bodyweight Developmental toxicity

STOT-single exposure : Not classified  
STOT-repeated exposure : Not classified

#### ORLEcrystal<sup>56</sup> (64742-51-4)

NOAEL (dermal, rat/rabbit, 90 days)	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
-------------------------------------	---

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Aspiration hazard : Not classified

### ORLEcrystal<sup>56</sup> (64742-51-4)

Viscosity, kinematic	2.5 – 4.5 mm <sup>2</sup> /s
----------------------	------------------------------

## 11.2. Information on other hazards

### Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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

### Other information

Potential adverse human health effects and symptoms : No data available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

### 12.2. Persistence and degradability

#### ORLEcrystal<sup>56</sup> (64742-51-4)

Persistence and degradability	Biodegradability in water: no data available.
-------------------------------	---

### 12.3. Bioaccumulative potential

#### ORLEcrystal<sup>56</sup> (64742-51-4)

Partition coefficient n-octanol/water (Log Pow)	In this case, it does not apply
Bioaccumulative potential	No bioaccumulation data available.

### 12.4. Mobility in soil

#### ORLEcrystal<sup>56</sup> (64742-51-4)

Ecology - soil	No data.
----------------	----------

### 12.5. Results of PBT and vPvB assessment

#### ORLEcrystal<sup>56</sup> (64742-51-4)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	ORLEcrystal <sup>56</sup> (64742-51-4)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	ORLEcrystal <sup>56</sup> (64742-51-4)

# ORLEcrystal<sup>56</sup>

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is 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.

### 12.7. Other adverse effects

Other adverse effects : No data 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 : Do not empty into drains. Do not allow to enter into surface water or drains.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal.  
Ecological waste information : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / RID

ADR	IMDG	RID
NOT SUBJECT	NOT SUBJECT	
<b>14.1. UN number or ID number</b>		
Not applicable	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

### 14.6. Special precautions for user

Special transport precautions : Use insulated gloves, impervious apron, long sleeves and other protective clothing when handling this material hot

#### Overland transport

No data available

#### Transport by sea

No data available

#### Rail transport

No data available

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

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

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

Not listed on REACH Annex XIV (Authorisation List)

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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

Not listed on the PIC list (Regulation EU 649/2012)

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

Not listed on the POP list (Regulation EU 2019/1021)

##### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

##### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

##### Explosives Precursors Regulation (EU 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 (EC 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)

#### National regulations

##### Austria

Toxic Substances Ordinance 2000 : Is not subject to the Toxic Substances Ordinance 2000.

##### Germany

VOC ordinance (ChemVOCFarbV) :

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV); ID No. 268).

Major Accidents Ordinance (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

##### Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : ORLEcrystal<sup>56</sup> is listed

SZW-lijst van mutagene stoffen : ORLEcrystal<sup>56</sup> is listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

##### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

### Poland

#### Polish National Regulations

: Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).  
 Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).  
 Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).  
 Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).  
 The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).  
 Regulation of the Minister of Economy of 21 December 2005 on the essential requirements for personal protective equipment (J. o L. No. 259, item 2173).  
 Regulation of the Minister of Health of 10 August 2012 on the criteria and classification method of chemical substances and their mixtures (consolidated text: J. o L. 2015, item 208).  
 Regulation of the Minister of Health of 20 April 2012 on labelling of hazardous substances and hazardous mixtures and certain mixtures (consolidated text: J. o L. 2015, item 450)  
 Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).  
 The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)  
 according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878  
 Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
 The ADR Agreement - Annex to the J. o L. of 26 April 2019 Government Statement of 18 February 2019 on the entry into force of the amendments to Annex A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o L. 2019, item 769)  
 Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

#### Indication of changes:

Not applicable.

#### Abbreviations and acronyms:

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

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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Training advice : As from 24 August 2023 adequate training is required before industrial or professional use. Personal monitoring.

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU