

# Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

### 1.1. Product identifier

Code: **TN1STSV**  
Product name: **LR Single Part Color Development Starter**

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

Intended use: **Starter Color Negative Film Development**

Identified Uses	Industrial	Professional	Consumer
uso identificato	-	-	PC: 30.

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

Name: **BELLINI FOTO S.R.L.**  
Full address: **Via Ferriera 68**  
District and Country: **06089 Torgiano (Perugia) Italia**  
Tel.: **+39075985174**  
e-mail address of the competent person responsible for the Safety Data Sheet: **enrico.pompili@bellinifoto.it**

Supplier:

### 1.4. Emergency telephone number

For urgent inquiries refer to: **UK National Poisons Information Service (NPIC) - Phone +44 0344 892 0111**  
**Ireland National Poisons Information Service (NPIC) - Phone +353 (01) 809 2566**

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2	H319	Causes serious eye irritation.
Skin irritation, category 2	H315	Causes skin irritation.

### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: **Warning**

Hazard statements:

<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.

## SECTION 2. Hazards identification ... / >>

Restricted to professional users.

Precautionary statements:

**P280**

**P337+P313**

**P264**

Wear protective gloves / eye protection / face protection.

If eye irritation persists: Get medical advice / attention.

Wash clothes thoroughly after use.

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>POTASSIUM CARBONATE</b>		
INDEX	$7 \leq x < 9$	Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335
EC	209-529-3	
CAS	584-08-7	
REACH Reg.	01-2119532646-36	
<b>POTASSIUM BROMIDE</b>		
INDEX	$3 \leq x < 5$	Eye Irrit. 2 H319
EC	231-830-3	
CAS	7758-02-3	
REACH Reg.	01-2119962195-33	
<b>DTPA Acid</b>		
INDEX	$1 \leq x < 3$	Repr. 1B H360D, Acute Tox. 4 H332, STOT RE 2 H373, Eye Irrit. 2 H319
EC	200-652-8	Repr. 1B H360D: $\geq 3\%$
CAS	67-43-6	LC50 Inhalation mists/powders: 1,5 mg/l
REACH Reg.	01-2119497281-34-0005	
<b>POTASSIUM HYDROXIDE</b>		
INDEX	$0,5 \leq x < 1$	Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318
EC	215-181-3	Skin Corr. 1B H314: $\geq 2\% - < 5\%$ , Skin Corr. 1C H314: $\geq 2\% - < 5\%$ , Skin Irrit. 2 H315: $\geq 0,5\% - < 2\%$ , Eye Dam. 1 H318: $\geq 2\%$ , Eye Irrit. 2 H319: $\geq 0,5\% - < 2\%$
CAS	1310-58-3	LD50 Oral: 333 mg/kg
REACH Reg.	01-2119487136-33	

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and

**SECTION 4. First aid measures ... / >>**

on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If eye irritation persists: Get medical advice / attention.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory references:

ESP	España	Límites de exposición profesional para agentes químicos en España 2024
FRA	France	Valeurs limites d'exposition professionnelle aux agents chimiques en France Décret n° 2021-1849 du 28 décembre 2021
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
EU	OEL EU	Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

#### DTPA Acid

#### Predicted no-effect concentration - PNEC

Normal value in fresh water	5	mg/l
Normal value in marine water	0,5	mg/l
Normal value for fresh water sediment	18	mg/kg/d
Normal value for marine water sediment	1,8	mg/kg/d
Normal value for water, intermittent release	2,45	mg/l
Normal value of STP microorganisms	50	mg/l
Normal value for the terrestrial compartment	0,667	mg/kg/d

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				1,2 mg/kg bw/d				
Inhalation			0,6 mg/m3		3 mg/m3			1,5 mg/m3
Skin				5864 mg/kg bw/d				11720 mg/kg bw/d

### SECTION 8. Exposure controls/personal protection ... / >>

#### POTASSIUM HYDROXIDE

##### Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations		
VLA	ESP	1		4		RESP		
VLEP	FRA			2				
WEL	GBR			2				
OEL	EU	2		2	0,87	(EC)		

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation			1 mg/m3				1 mg/m3	

#### POTASSIUM CARBONATE

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation					10 mg/m3		10 mg/m3	

#### POTASSIUM BROMIDE

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	520	µg/L
Normal value in marine water	109	mg/l
Normal value for fresh water sediment	NEA	
Normal value for marine water sediment	NEA	
Normal value for water, intermittent release	109	mg/l
Normal value for marine water, intermittent release	41	mg/l
Normal value of STP microorganisms	100	mg/l
Normal value for the terrestrial compartment	3,2	mg/kg
Normal value for the atmosphere	NPI	

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers		Chronic local	Chronic systemic	Effects on workers			
	Acute local	Acute systemic			Acute local	Acute systemic	Chronic local	Chronic systemic
Oral		50,0 mg/kg		475,0 µg/kg				
Inhalation		NPI	NPI	1,66 mg/m³	NPI	NPI	NPI	4,75 mg/m³
Skin		95,0 mg/kg	NPI	95,0 mg/kg	NPI	95,0 mg/kg	NPI	95,0 mg/kg

##### Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

## SECTION 8. Exposure controls/personal protection ... / >>

Wear airtight protective goggles (see standard EN ISO 16321).

### RESPIRATORY PROTECTION

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	liquid	Temperature: 27 °C
Colour	colourless	
Odour	odourless	
Odour threshold	not applicable	
Melting point / freezing point	not determined	
Initial boiling point	not determined	
Boiling range	not determined	
Flammability	not flammable	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	not determined	
Auto-ignition temperature	not determined	
Decomposition temperature	not determined	
Self-accelerating decomposition temperature (SADT)	not determined	
pH	9,7	Method:pHMetro Temperature: 27 °C
Kinematic viscosity	not determined	
Dynamic viscosity	not determined	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not determined	
Vapour pressure	not determined	
Density and/or relative density	1220 g/l	Method:Densitometro
Relative vapour density	not determined	
Particle characteristics	not applicable	

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

#### DTPA Acid

Stable in normal conditions of use and storage.

#### POTASSIUM HYDROXIDE

May develop: heat.May corrode: metals.

Reacts with: water,metals.

**SECTION 10. Stability and reactivity** ... / >>**POTASSIUM BROMIDE**

Reacts explosively with bromine trifluoride.

**10.2. Chemical stability**

The product is stable in normal conditions of use and storage.

**DTPA Acid**

Stable in normal conditions of use and storage.

**POTASSIUM HYDROXIDE**

Stable in normal conditions of use and storage.

**POTASSIUM BROMIDE**

The product is stable under recommended storage and use conditions (see paragraph 7).

**10.3. Possibility of hazardous reactions**

No hazardous reactions are foreseeable in normal conditions of use and storage.

**POTASSIUM HYDROXIDE**

Develops hydrogen on contact with: metals. Develops heat on contact with: strong acids. Reacts violently with: water.

**POTASSIUM BROMIDE**

Reacts explosively with bromine trifluoride.

**10.4. Conditions to avoid**

None in particular. However the usual precautions used for chemical products should be respected.

**DTPA Acid**

Avoid contact with: strong acids, strong bases, strong oxidising agents.

**POTASSIUM HYDROXIDE**

Avoid exposure to: sources of heat. Keep away from: oxidising agents, acids, flammable substances, halogens, organic substances. Keep away from: lead, aluminium, copper, tin, sulphur, bronze. Absorbs atmospheric CO<sub>2</sub>.  
Unstable on exposure to air. Freezing.

**POTASSIUM BROMIDE**

The product is hygroscopic, keep away from humidity.

**10.5. Incompatible materials****POTASSIUM HYDROXIDE**

Avoid contact with: aluminium, zinc, tin, copper, aluminium alloys, copper alloys, tin alloys, zinc alloys.

**POTASSIUM BROMIDE**

Keep away from acidic and oxidizing materials. Salts of heavy metals.

**10.6. Hazardous decomposition products****POTASSIUM HYDROXIDE**

May develop: flammable gases.  
In decomposition develops: toxic fumes, potassium oxides.

**POTASSIUM BROMIDE**

Hydrobromic acid (HBr)

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.  
It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

**SECTION 11. Toxicological information ... / >>**Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture:	> 5 mg/l
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

**POTASSIUM CARBONATE**

LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat
LC50 (Inhalation mists/powders):	> 4,96 mg/l/4h Rat

**POTASSIUM BROMIDE**

LD50 (Dermal):	2000 mg/kg (rabbit)
LD50 (Oral):	2000 mg/kg (rat)

**DTPA Acid**

LD50 (Dermal):	2000 mg/kg (rat)
LD50 (Oral):	> 5000 mg/kg RAT
LC50 (Inhalation mists/powders):	1,5 mg/l

**POTASSIUM HYDROXIDE**

LD50 (Oral):	333 mg/kg Rat - OCSE 425
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SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD



**SECTION 11. Toxicological information ... / >>**

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

POTASSIUM CARBONATE  
LC50 - for Fish 68 mg/l/96h Oncorhynchus mykiss  
EC50 - for Crustacea 200 mg/l/48h Daphnia pulex

POTASSIUM BROMIDE  
LC50 - for Fish > 440 mg/l/96h  
EC50 - for Crustacea 100 mg/l/48h  
EC50 - for Algae / Aquatic Plants 440 mg/l/72h  
EC10 for Crustacea 43 mg/L/384h  
Chronic NOEC for Fish 10 mg/l  
Chronic NOEC for Crustacea 2,8 mg/l  
Chronic NOEC for Algae / Aquatic Plants 440 mg/l

DTPA Acid  
EC50 - for Crustacea 245 mg/l/48h  
Chronic NOEC for Fish 100 mg/L/672h  
Chronic NOEC for Crustacea 67 mg/l  
Chronic NOEC for Algae / Aquatic Plants 400 mg/l

POTASSIUM HYDROXIDE  
LC50 - for Fish 80 mg/l/96h Gambusia affinis

**12.2. Persistence and degradability**

POTASSIUM CARBONATE  
Solubility in water > 10000 mg/l

POTASSIUM BROMIDE  
Solubility in water 678 g/l

DTPA Acid  
Solubility in water 3,5 g/l  
NOT rapidly degradable

POTASSIUM HYDROXIDE  
Solubility in water > 10000 mg/l  
Degradability: information not available

**12.3. Bioaccumulative potential**

POTASSIUM BROMIDE  
Partition coefficient: n-octanol/water 1

**12.4. Mobility in soil**

POTASSIUM BROMIDE  
Partition coefficient: soil/water 0,1

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**SECTION 12. Ecological information** ... / >>**12.6. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

**12.7. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

not applicable

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

not applicable

**14.6. Special precautions for user**

not applicable

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

Information not relevant

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EU:

None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

### SECTION 15. Regulatory information ... / >>

Product		
Point	3	
Contained substance		
Point	75	
Point	30	DTPA Acid
		REACH Reg.: 01-2119497281-34-0005

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors  
not applicable

Substances in Candidate List (Art. 59 REACH)  
On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)  
None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:  
None

Substances subject to the Rotterdam Convention:  
None

Substances subject to the Stockholm Convention:  
None

Healthcare controls  
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the product

### SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Repr. 1B</b>	Reproductive toxicity, category 1B
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>H290</b>	May be corrosive to metals.
<b>H360D</b>	May damage the unborn child.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.

Use descriptor system:  
**PC** 30 Photochemicals

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level

**SECTION 16. Other information ... / >>**

- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
23. Delegated Regulation (UE) 2023/707
24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
26. Delegated Regulation (UE) 2024/197 (XXI Atp. CLP)
27. Delegated Regulation (UE) 2024/2564 (XXII Atp. CLP)

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

**SECTION 16. Other information ... / >>**

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**CALCULATION METHODS FOR CLASSIFICATION**

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

02 / 03 / 11 / 12 / 15 / 16.