



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Commission Regulation (EU) 2020/878 - Germany

SAFETY DATA SHEET

937LED9074 OPAQUE BLACK

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

1.1 Product identifier

Product name : 937LED9074 OPAQUE BLACK
UFI : YFSE-D0A1-V00K-M86S
Product code : 1696824, 1696824-E49, 1696824-D31
Product description : Not available.
Product type : liquid
Other means of identification : 937LED9074 OPAQUE BLACK

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

Identified uses

Not applicable.

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

RUCOINX Druckfarben
 A. M. Ramp & Co. GmbH
 Lorsbacher Str. 28
 Eppstein
 Germany
 D-65817
 +49.6198.304 0
 8:00-16:00 (working hours)

e-mail address of person responsible for this SDS : info.de@inx europe.com

National contact

Not available.

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number :

Supplier

Telephone number : +49.6198.304 0
Hours of operation : 8:00-16:00 (working hours)
Information limitations : Not available.

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 Dam. 1, H318

Skin Sens. 1, H317

STOT RE 2, H373

Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

Hazard statements :

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

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

H411: Toxic to aquatic life with long lasting effects.

Precautionary statements

General :

P103: Read carefully and follow all instructions.

P102: Keep out of reach of children.

P101: If medical advice is needed, have product container or label at hand.

Prevention :

P280: Wear protective gloves.

P280: Wear eye or face protection.

P273: Avoid release to the environment.

P260: Do not breathe vapor.

P264: Wash thoroughly after handling.

Response :

P391: Collect spillage.

P314: Get medical advice or attention if you feel unwell.

P362 + P364: Take off contaminated clothing and wash it before reuse.

P302: IF ON SKIN:

P302 + P352: Wash with plenty of water.

P333: If skin irritation or rash occurs:

P333 + P313: Get medical advice or attention.

P305: IF IN EYES:

P305 + P351 + P338: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P305 + P310: Immediately call a POISON CENTER or doctor.

Storage : - : Not applicable.

Disposal : P501: Dispose of contents and container in accordance with all local, regional, national and international regulations.

Contains : Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane
 hexamethylene diacrylate
 2-Propen-1-one, 1-(4-morpholinyl)-
 2-Propenoic acid, reaction products with pentaerythritol
 1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1)
 Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
 Naphtha (petroleum), hydrodesulfurized heavy
 2-(hydroxymethyl)-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate
 Glycerol, propoxylated, esters with acrylic acid
 2,2-bis[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate

Supplemental label elements : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

Tactile warning of danger : Yes, applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with	CAS : 25068-38-6	>= 10 - <= 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	Skin Irrit. 2, H315: >= 5 % Eye Irrit. 2, H319: >= 5 %	[1]

Version: 4.1

Date of issue/Date of revision: 07.07.2025

Date of previous issue: 29.05.2025

(chloromethyl)oxirane	Index: 603-074-00-8		Skin Sens. 1, H317 Aquatic Chronic 2, H411		
Urethane Acrylate Oligomer	-	>= 10 - <= 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
hexamethylene diacrylate	REACH#: 01-2119484737-22-XXXX EC : 235-921-9 CAS : 13048-33-4 Index: 607-109-00-8	>= 10 - <= 23	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	M [Acute] = 1	[1] [2]
2-Propen-1-one, 1-(4-morpholinyl)-	CAS : 5117-12-4 Index: 613-222-00-3	> 0 - < 10	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373	ATE [Oral] = 588 mg/kg	[1]
2-Propenoic acid, reaction products with pentaerythritol	REACH#: 01-2119490003-49-XXXX EC : 629-850-6 CAS : 1245638-61-2	> 0 - <= 10	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]
1-Butanamine, N-butyl-, reaction products with polyethylene glycol monoacrylate ether with trimethylolpropane (3:1)	CAS : 195008-76-5	> 0 - <= 10	Eye Irrit. 2, H319 Skin Sens. 1A, H317	-	[1]
2-hydroxy-2-methylpropiophenone	REACH#: 01-2119472306-39-XXXX EC : 231-272-0 CAS : 7473-98-5	> 0 - <= 5	Acute Tox. 4, H302	ATE [Oral] = 1 694 mg/kg	[1]
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	REACH#: 01-2119489401-38-XXXX CAS : 162881-26-7 Index: 015-189-00-5	> 0 - <= 3	Skin Sens. 1, H317 Aquatic Chronic 4, H413	-	[1]
Naphtha (petroleum), hydrodesulfurized heavy	EC : 265-185-4 CAS : 64742-82-1 Index: 649-330-00-2	> 0 - <= 3	STOT RE 1, H372	-	[1]
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	CAS : 2530-83-8	> 0 - <= 3	Eye Dam. 1, H318	-	[1]
1-Butanone, 2-(dimethylamino)-2-[(4-	REACH#: 01-2120040688-50-	> 0 - < 3	Repr. 2, H361	-	[1]

methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-	XXXX CAS : 119344-86-4				
2-(hydroxymethyl)-2-[[[(1-oxoallyl)oxy)methyl]-1,3-propanediyl]diacrylate	EC : 222-540-8 Index: 607-110-00-3	> 0 - < 1	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1] [2]
Glycerol, propoxylated, esters with acrylic acid	REACH#: 01-2119487948-12-XXXX CAS : 52408-84-1	> 0 - < 1	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
2,2-bis[[[(1-oxoallyl)oxy)methyl]-1,3-propanediyl]diacrylate	EC : 225-644-1 Index: 607-122-00-9	> 0 - < 1	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
propylene carbonate	EC : 203-572-1 CAS : 108-32-7 Index: 607-194-00-1	> 0 - <= 0,3	Eye Irrit. 2, H319	-	[1] [2]
copper bis(dimethyldithiocarbamate)	-	> 0 - <= 0,16	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10 M [Chronic] = 10	[1] [2]

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

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, vPvBs or Substances of equivalent concern, 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

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask

	or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain, watering, redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: 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 an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, metal oxide/oxides

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- 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** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute

- Large spill** : with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
- 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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Seveso Directive - Reporting thresholds

Version: 4.1

Date of issue/Date of revision: 07.07.2025

Date of previous issue: 29.05.2025

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
E2	200 kg	500 kg

7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
hexamethylene diacrylate	DFG MAC-values list (2014-06-23). [HDDA] Skin sensitizer.
2-(hydroxymethyl)-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	DFG MAC-values list (2008-07-01). [Acrylic acid pentaerythritol triester] Skin sensitizer.
copper bis(dimethyldithiocarbamate) (Copper and its inorganic compounds)	DFG MAC-values list (2013-07-08). [Copper and its inorganic compounds] PEAK 0,02 mg/m ³ Form: Respirable fraction TWA 0,01 mg/m ³ Form: Respirable fraction
propylene carbonate	TRGS 900 OEL (2019-03-29). PEAK 8,5 mg/m ³ 2 ppm TRGS 900 OEL (2019-03-29). TWA 8,5 mg/m ³ 2 ppm DFG MAC-values list (2018-07-01). [propylene carbonate] TWA 8,5 mg/m ³ 2 ppm PEAK 8,5 mg/m ³ 2 ppm

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : 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	Type	Exposure	Value	Population	Effects
hexamethylene diacrylate	DNEL	Long term Dermal	1,66 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	24,5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	7,2 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	2,77 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	2,1 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	1,66 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	24,5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	7,2 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	2,77 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Oral	2,1 mg/kg bw/day	General population	Systemic
2-Propen-1-one, 1-(4-morpholinyl)-	DNEL	Short term Inhalation	132,24 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	132,24 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	132,24 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Dermal	300 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	132,24 mg/m ³	Workers	Systemic
2-hydroxy-2-methylpropiophenone	DNEL	Long term Oral	0,4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3,5 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0,9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0,4 mg/kg bw/day	General population	Systemic
	DNEL	Long term	3,5 mg/m ³	Workers	Systemic

		Inhalation			
	DNEL	Long term Dermal	1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0,9 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0,5 mg/kg bw/day	General population	Systemic
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	DNEL	Long term Oral	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	1,67 ng/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	7,84 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	3,33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1,93 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	1,67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	7,84 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1,93 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	1,5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Oral	1,67 ng/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	7,84 mg/m ³	Workers	Systemic
	DNEL	Short term Dermal	3,33 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	1,93 mg/m ³	General population	Systemic
	DNEL	Short term Dermal	1,67 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	7,84 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	3 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1,93 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1,5 mg/kg bw/day	General population	Systemic
Naphtha (petroleum), hydrodesulfurized heavy	DNEL	Long term Inhalation	0,41 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1286,4 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1066,67 mg/m ³	Workers	Local
	DNEL	Long term	837,5 mg/m ³	Workers	Local

		Inhalation			
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local
	DNEL	Long term Inhalation	178,57 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1,9 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0,41 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1286,4 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	1152 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	1066,67 mg/m ³	Workers	Local
	DNEL	Long term Inhalation	837,5 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	640 mg/m ³	General population	Local
	DNEL	Long term Inhalation	178,57 mg/m ³	General population	Local
	DNEL	Long term Inhalation	1,9 mg/m ³	Workers	Systemic
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	88 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	70,5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	17 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	88 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	70,5 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	17 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	10 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	5 mg/kg bw/day	General population	Systemic
1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-	DNEL	Long term Dermal	0,233 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83,3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	83,3 µg/kg bw/day	General population	Systemic
	DNEL	Long term	1,64 mg/m ³	Workers	Systemic

		Inhalation			
	DNEL	Long term Inhalation	0,29 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0,233 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	83,3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	83,3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1,64 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0,29 mg/m ³	General population	Systemic
Glycerol, propoxylated, esters with acrylic acid	DNEL	Long term Dermal	2,1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7,4 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	2,1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	7,4 mg/m ³	Workers	Systemic
propylene carbonate	DNEL	Long term Oral	10 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	70,53 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	20 mg/m ³	Workers	Local
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17,4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	10 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	10 mg/m ³	General population	Local
	DNEL	Long term Dermal	10 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	10 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	70,53 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	20 mg/m ³	Workers	Local
	DNEL	Long term Dermal	20 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	17,4 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	10 mg/cm ²	Workers	Local
	DNEL	Long term Inhalation	10 mg/m ³	General population	Local
	DNEL	Long term Dermal	10 mg/kg bw/day	General population	Systemic

PNECs

No PNECs available.

8.2 Exposure controls

- | | | |
|--|---|--|
| Appropriate engineering controls | : | If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. |
|
<u>Individual protection measures</u> | | |
| 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 | : | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. |
|
<u>Skin protection</u> | | |
| Hand protection | : | 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. |
| Body protection | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Other skin protection | : | Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : | Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. |
| Environmental exposure controls | : | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: liquid
Color	: Black.
Odor	: Not available.
Odor threshold	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: Not available.
Flammability	: Not available.
Lower and upper explosion limit	: Lower: Not available. Upper: Not available.
Flash point	: Closed cup: 94 °C (201 °F)
Auto-ignition temperature	: Not Available
Decomposition temperature	: Not available.
pH	: Product is non-polar/aprotic.
Viscosity	: Dynamic Not available. : Kinematic Not available. :
Solubility in water	: Not available.
Partition coefficient: n-octanol/water	: Not applicable.
Vapor pressure	:
Relative density	: 1,19
Vapor density	: Not available.
Explosive properties	: Not available.
Oxidizing properties	: Not available.
VOC	: 2,06 %(m)

Particle characteristics

Median particle size	: Not applicable.
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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** : The product is stable.
- 10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid** : No specific data.
- 10.5 Incompatible materials** : No specific data.
- 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

Product/ingredient name	Result	Species	Dose	Exposure
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane				
	LD50 Oral	Rat	11 400 mg/kg	-
hexamethylene diacrylate				
	LD50 Oral	Rat	5 000 mg/kg	-
2-Propen-1-one, 1-(4-morpholinyl)-				
	LD50 Oral	Rat	588 mg/kg	-
	LC50 Inhalation Vapor	Rat	5 280 mg/l	4 h
	LD50 Dermal	Rat	2 000 mg/kg	-
2-hydroxy-2-methylpropiophenone				
	LD50 Oral	Rat	1 694 mg/kg	-
	LD50 Dermal	Rat	6 929 mg/kg	-
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane				
	LD50 Oral	Rat	7 010 mg/kg	-
propylene carbonate				
	LD50 Oral	Rat	5 000 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
937LED9074 OPAQUE BLACK	3113,7 mg/kg	N/A	N/A	N/A	N/A
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	11400 mg/kg	N/A	N/A	N/A	N/A
hexamethylene diacrylate	5000 mg/kg	N/A	N/A	N/A	N/A

2-Propen-1-one, 1-(4-morpholinyl)-	588 mg/kg	N/A	N/A	5280 mg/l	N/A
2-Propenoic acid, reaction products with pentaerythritol	500 mg/kg	N/A	N/A	N/A	N/A
2-hydroxy-2-methylpropiophenone	1694 mg/kg	6929 mg/kg	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	7010 mg/kg	N/A	N/A	N/A	N/A
2-(hydroxymethyl)-2-[[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	500 mg/kg	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane	Eyes - Mild irritant	Rabbit	-		-
	Eyes - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
hexamethylene diacrylate	Skin - Severe irritant	Rabbit	-	24 hrs	-
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Eyes - Mild irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
propylene carbonate	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Moderate irritant	Human	-	72 hrs	-
	Skin - Moderate irritant	Rabbit	-		-

Conclusion/Summary

Skin : Not available.
Eyes : Not available.
Respiratory : Not available.

Sensitization

Conclusion/Summary

Skin : Not available.
Respiratory : Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2-Propen-1-one, 1-(4-morpholinyl)-	Category 2	-	-
Naphtha (petroleum), hydrodesulfurized heavy	Category 1	-	-

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.
Inhalation : No known significant effects or critical hazards.
Skin contact : Causes skin irritation. May cause an allergic skin reaction.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, watering, redness
Inhalation : No specific data.
Skin contact : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur
Ingestion : Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

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Short term exposure

Potential immediate effects : Not available.
 Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.
 Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : No known significant effects or critical hazards.
Mutagenicity : No known significant effects or critical hazards.
Reproductive toxicity : No known significant effects or critical hazards.

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties : Not available.
11.2.2 Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
copper bis(dimethyldithiocarbamate)			
	Acute LC50 0,071 mg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 h

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
hexamethylene diacrylate	2,81	-	low
2-Propen-1-one, 1-(4-morpholinyl)-	-0,46	-	low
2-Propenoic acid, reaction products with pentaerythritol	1,45	-	low
2-hydroxy-2-methylpropiophenone	1,62	-	low
Phosphine oxide,	5,77	5,00	low

phenylbis(2,4,6-trimethylbenzoyl)-			
Naphtha (petroleum), hydrodesulfurized heavy	-	10,00 - 2 500,00	high
Glycerol, propoxylated, esters with acrylic acid	2,52	-	low
2,2-bis[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate	2,11	-	low
propylene carbonate	-0,41	-	low

12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available.
Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties : Not available.

12.7 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.

Packaging

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.

Special precautions : 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 or ID number	UN3082	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4'-(1-methylethylidene)b is-, polymer with (chloromethyl)oxirane, hexamethylene diacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4'-(1-methylethylidene)b is-, polymer with (chloromethyl)oxirane, hexamethylene diacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4'-(1-methylethylidene)b is-, polymer with (chloromethyl)oxirane, hexamethylene diacrylate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, 4,4'-(1-methylethylidene)b is-, polymer with (chloromethyl)oxirane, hexamethylene diacrylate)
14.3 Transport hazard class(es)	9 	9 	9 	9 
14.4 Packing group	III	III	III	III
14.5. Environmental hazards	Yes.	Yes.	Yes.	Yes.

Additional information ADR/RID

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

Tunnel code (-)

ADN

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IMDG

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA

- : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

The following components are listed:

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
1-Butanone, 2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(4-morpholinyl)phenyl]-	Toxic to reproduction	Candidate	-	2024-01-23

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
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No listed substance

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (1005/2009/EU)

None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

None of the components are listed.

Persistent Organic Pollutants

None of the components are listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

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Date of previous issue: 29.05.2025

Category
E2

National regulations

Storage class (TRGS 510) : 10

Hazardous incident ordinance

This product is controlled under the Germany Hazardous Incident Ordinance.

Danger criteria

Category	Reference number
E2	1.3.2

Hazard class for water : WGK 2

Technical instruction on air quality control : TA-Luft Number 5.2.5: 64 %
TA-Luft Number 5.2.5: Class I - 9,3 %
TA-Luft Number 5.2.7.1.1: Class II - 2 %

AOX : Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Chemical Weapons Convention List Schedule I Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants

Annex A - Elimination - Production

None of the components are listed.

Annex A - Elimination - Use

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	Not determined.
Canada	:	Not determined.
China	:	Not determined.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are listed or exempted.
Viet Nam	:	Not determined.

15.2 Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation
 [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level

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Date of previous issue: 29.05.2025

DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 N/A = Not available
 PBT = Persistent, Bioaccumulative and Toxic
 PNEC = Predicted No Effect Concentration
 RRN = REACH Registration Number
 SGG = Segregation Group
 vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008
[CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging 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.
H400	Very toxic to aquatic life.
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.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 4	AQUATIC HAZARD (LONG-TERM) - Category 4
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Date of printing : 18.11.2025
Date of issue/ Date of revision : 07.07.2025

Date of previous issue : 29.05.2025
Version : 4.1

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