

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) No 453/2010



Article No.: RLX  
Print date 15.09.2015  
Version 1.3

RLX Direct Emulsion  
Revision date 15.09.2015  
Issue date 24.08.2015

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**1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifiers**

Article No. (manufacturer/supplier): RLX  
Identification of the substance or mixture RLX Direct Emulsion

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

**Relevant identified uses**

Stencil production for screen and textile printing. Reserved for industrial and professional use.

**1.3. supplier (manufacturer/importer/downstream user/distributor)**

ULANO® CORPORATION  
110 Third Avenue Telephone: +1 718-237-4700  
Brooklyn, NY 11217 Telefax: +1 718-802-1119  
USA E-mail info@ulano.com

**Information contact:**

E-mail (competent person): P. Drago dragop@ulano.com

**1.4. Emergency telephone:**

Emergency telephone: 1-800-424-9300 (CHEMTREC)

**2. Hazards identification**

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

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

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

**Hazard pictograms**



**Warning**

**Hazard statements**

H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P280 Wear protective gloves and eye/face protection.

**contains:**

ethoxylated (3) trimethylolpropane triacrylate  
1,2-benzisothiazol-3(2H)-one

**Supplemental Hazard information (EU)**

n.a.

**2.3. Other hazards**

**3. Composition / Information on ingredients**

**3.2. Mixtures**

**Product description / chemical characterization**

**Description** Mixture of components, as listed below, with nonhazardous constituents

**Hazardous ingredients**

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

EC No.	REACH No.	Wt %
CAS No.	Chemical name	Remark
INDEX No.	classification:	

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248-258-5 27138-31-4	oxydipropyl dibenzoate Aquatic Chronic 2 H411	10 - 12.5
607-648-0 25213-24-5	Acetic acid ethenyl ester polymer, polymer with ethenol Eye Irrit. 2 H319	7 - 8
500-066-5 28961-43-5	ethoxylated (3) trimethylolpropane triacrylate Eye Irrit. 2 H319 / Skin Sens. 1 H317	3 - 5
220-120-9 2634-33-5 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 2 H411	< 0.025

**Additional information**

Full text of classification: see section 16

**4. First-aid measures**

**4.1. Description of first aid measures**

**General information**

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice. In case of irregular breathing or respiratory arrest provide artificial respiration.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

**After eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**After ingestion**

Seek medical advice immediately. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

**5. Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide Water mist Foam

**Extinguishing media which must not be used for safety reasons:**

strong water jet

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

Gases/vapours, toxic

**5.3. Special protective equipment for firefighters:**

Provide a conveniently located respiratory protective device.

**Additional information**

The danger areas must be delimited and identified using relevant warning and safety signs. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

**6. Accidental release measures**

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

Ventilate affected area. Remove persons to safety. Do not breathe vapours. See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Provide good ventilation.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

**6.4. Reference to other sections**

Observe protective provisions (see chapter 7 and 8).

**7. Handling and storage**

**7.1. Precautions for safe handling**

**Advices on safe handling**

Avoid contact with skin and eyes. Do not inhale vapours or mist.  
Do not eat, drink or smoke when using this product.  
Personal protection equipment: refer to chapter 8.

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

**Technical measures and storage conditions**

Keep container tightly closed in a cool, well-ventilated place.

**Requirements for storage rooms and vessels**

Always keep in containers that correspond to the material of the original container. Ensure adequate ventilation of the storage area.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Additional information**

VCI-storage class, see Chapter 15

**7.3. Specific end use(s)**

Observe technical data sheet. Observe instructions for use.

**8. Exposure controls / Personal protection**

**8.1. Control parameters**

**Occupational exposure limit values:**

n.a.

**8.2. Exposure controls**

**Personal protection equipment**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

**Hand protection**

Chemical resistant protective gloves: DIN EN 374  
Recommendation for contact by spatter: Protection Index 2  
Permeation time >30 min., e.g. butyl rubber 0,4 mm  
Recommendation for direct contact: Protection Index 6  
Permeation time >480 min., e.g. nitrile rubber 0,4 mm

**Eye protection**

Wear closed protection glasses. DIN EN 166

**Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

**Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**9. Physical and chemical properties**

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

**Appearance:**

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**Physical state** liquid  
**Colour** refer to label  
**Odour** characteristic

**Safety relevant basis data**

	Method	Remark
<b>Flash point:</b>	n.a.	
<b>Ignition temperature (AIT)</b>	NB	
<b>Lower explosion limit</b>	n.a.	
<b>Upper explosion limit</b>	n.a.	
<b>Vapour pressure at 20 °C:</b>	13.60 mbar	
<b>Density at 20 °C:</b>	1.04 g/cm <sup>3</sup>	
<b>Water solubility (g/L)</b>	partially soluble	
<b>pH at 20 °C:</b>	5.00	
<b>Viscosity at 20 °C:</b>	13000 mPa·s	
<b>Initial boiling point and boiling range</b>	100 °C (101,3 kPa)	
<b>Decomposition temperature (°C):</b>	0	

9.2. **Other information:**

**10. Stability and reactivity**

10.1. **Reactivity**

10.2. **Chemical stability**

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

**11. Toxicological information**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

No data on preparation itself available.

11.1. **Information on toxicological effects**

**Acute toxicity**

oxydipropyl dibenzoate

oral, LD50, Rat: 3914 mg/kg

dermal, LD50, Rat: > 2000 mg/kg

Acetic acid ethenyl ester polymer, polymer with ethenol

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 1000 mg/kg

**skin corrosion/irritation; Serious eye damage/eye irritation**

Toxicological data are not available.

**Respiratory or skin sensitisation**

Toxicological data are not available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Toxicological data are not available.

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard**

Toxicological data are not available.

**Practical experience/human evidence**

Other observations:

Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness,

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formation of blebs, dermatitis, etc..

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself .

**12. Ecological information**

**overall evaluation**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

Do not store at public landfills.

**12.1. Toxicity**

No information available.

**Long-term Ecotoxicity**

Toxicological data are not available.

**12.2. Persistence and degradability**

Toxicological data are not available.

**12.3. Bioaccumulative potential**

Toxicological data are not available.

**Bioconcentration factor (BCF)**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**13. Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

**List of proposed waste codes/waste designations in accordance with EWC**

130105 non-chlorinated emulsions

**packaging**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**14. Transport information**

**No dangerous good in sense of this transport regulation.**

**14.1. UN number**

n.a.

**14.2. UN proper shipping name**

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

n.a.

**14.4. Packing group**

n.a.

**14.5. Environmental hazards**

Land transport (ADR/RID) n.a.

Marine pollutant n.a.

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in

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case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8

**Additional information**

**Land transport (ADR/RID)**

tunnel restriction code

**Sea transport (IMDG)**

EmS-No. n.a.  
Packaging >30 l

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

not applicable

**15. Regulatory information**

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

**EU legislation**

**VOC**

VOC-value (in g/L): ISO 11890-2 0.318  
VOC-value (in g/L): ASTM D 2369 0.828

**Observe in addition any national regulations!**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

**Substance/product listed in the following inventories:**

Not listet in TOXIC SUBSTANCES CONTROL ACT (TSCA)

**15.2. Chemical Safety Assessment**

Chemical safety assessments for substances in this preparation were not carried out.

**16. Other information**

**Full text of classification in section 3:**

Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.

**Additional information**

Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.