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

1.1 Product identifier

2635142 WESSCO® LM 26.351.42
UV Coating Extra Matt

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

Relevant identified uses

* Low migration, suitable for the outside of food and other sensitive packaging, in compliance with legal requirements and guidelines (GMP).

1.3 Details of the supplier of the safety data sheet

Supplier

ACTEGA Schmid Rhyner AG
Soodring 29
8134 Adliswil
Schweiz

Telephone: +41 712 64 00
E-mail: info.ACTEGA.SchmidRhyner@Altana.com
Website: www.Altana.com

Department responsible for information

E-mail (competent person) Sicherheit.ACTEGA.SchmidRhyner@altana.com

1.4 Emergency telephone number

Emergency telephone number Tox.-Center (GB): +44 844 892 01 11
Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

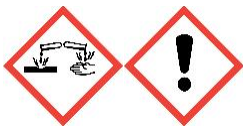
Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
Eye Dam. 1; Serious eye damage/eye irritation; H318 Causes serious eye damage.
Skin Sens. 1; Skin sensitisation; H317 May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms



Signal word

Danger

Hazard statements

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

Precautionary statements

P280	Wear protective gloves and eye/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER.

Hazard components for labelling

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
Oxybis(methyl-2,1-ethanediyl) diacrylate
* Ethoxylated Trimethylolpropanetriacrylate
polymeric photoinitiator

Supplemental hazard information

not applicable

2.3 Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2 Mixtures

Description

UV curing printing varnish

Hazardous ingredients

	CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
*	28961-43-5 500-066-5 -	**Ethoxylated Trimethylolpropanetriacrylate** 01-2119489900-30-XXXX Skin Sens. 1 H317 / Eye Irrit. 2 H319	> 50,0
	478549-43-8 - -	**polymeric photoinitiator** Skin Sens. 1A H317 / Eye Irrit. 2 H319	5,0 < 10,0
	57472-68-1 260-754-3 -	**Oxybis(methyl-2,1-ethanediyl) diacrylate** 01-2119484629-21-xxxx Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Dam. 1 H318	2,5 < 5,0
	42978-66-5 256-032-2 607-249-00-X	**(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate** 01-2119484613-34-XXXX Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Aquatic Chronic 2 H411	1,0 < 2,5

Remark

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

Following inhalation

Remove person to fresh air and keep comfortable for breathing. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Conditions to avoid: UV-radiation/sunlight.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

Self-protection of the first aider

First aider: Pay attention to self-protection!

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide fire blanket, Powder, spray mist, (water)

Unsuitable extinguishing media

Strong water jet

5.2 Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for firefighters

Provide a conveniently located respiratory protective device. 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

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.

6.3 Methods and material for containment and cleaning up

For containment

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 section 13).

For cleaning up

Clean using cleansing agents. Do not use solvents.

6.4 Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Persons with a history of skin sensitisation problems should not be employed in any process in which this product is used.

Advices on safe handling

Avoid contact with eyes and skin.
Access only for authorised persons.
Avoid: UV-radiation/sunlight.
Follow the legal protection and safety regulations.
Personal protection equipment: see section 8

Advices on general occupational hygiene

When using do not eat, drink or smoke.
Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Böden müssen den 'Richtlinien für die Vermeidung von Zündgefahren infolge elektrostatischer Aufladungen (TRGS 727)' entsprechen.
Take care of instructions on label. Protect from heat and direct sunlight. Remove all sources of ignition. Keep only in the original container.

Hints on joint storage

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

Further information on storage conditions

Smoking is forbidden. Access only for authorised persons. Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C.

7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

No data available

Biological limit values

No data available

Store in a well-ventilated and dry room at temperatures between 5 °C and 35 °C.

8.2 Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

* In case of inadequate ventilation wear respiratory protection. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

Tested protective gloves must be worn.
Thickness of the glove material: >= 0.4 mm
Breakthrough time:: >= 480 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin.
Recommended glove articles: EN ISO 374.

Skin protection

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Eye/face protection

Wear closely fitting protective glasses in case of splashes. To follow: DIN EN 166.

Body protection

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

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

*	Physical state	Liquid
	Colour	colourless

Safety characteristics

Odour	arttypisch
Odour threshold	not determined
pH	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	> 100 °C

	Evaporation rate at 20°C	not determined
	Burning time	not applicable
	Lower explosion limit at 20°C	not determined
	Upper explosion limit at 20°C	not determined
	Vapour pressure at 20°C	0.176 mbar
	Density at 20°C	1.115 kg/l
	Water solubility at 20°C	practically insoluble
	Partition coefficient: n-octanol/water	see section 12
	Ignition temperature in °C	not determined
	Decomposition temperature	not determined
*	Viscosity	400 mm²/s
	Explosive properties	not relevant
	Oxidising properties	not relevant

9.2 Other information

not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Danger of polymerisation.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Keep away from free radical initiators, peroxides, strong alkaline material and reactive metals. Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4 Conditions to avoid

This preparation contains material instable under the following conditions:
Heat, strong ultraviolet radiation. An exotherm polymerization of the product may thereby be caused. Avoid unintended contact with it. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5 Incompatible materials

Not applicable

10.6 Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: Carbon dioxide (CO2), Carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate
LD50: oral (Rat): = 6'800 mg/kg

* **Ethoxylated Trimethylolpropanetriacrylate**
LD50: oral (Rat): > 2'000 mg/kg; (OECD 401)

LD50: dermal (Rat): > 13'200 mg/kg

Oxybis(methyl-2,1-ethanediyl) diacrylate
LD50: oral (Rat): = 3'530 mg/kg; (OECD 401)

polymeric photoinitiator
LD50: oral (Rat): > 2'000 mg/kg

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Practical experience/human evidence

The fractions of acrylic resin in the preparation have an irritant effect. Prolonged or repeated contact with the preparation can lead to irritations of mucous membranes and of skin such as redness, formation of blebs, dermatitis, etc.. Cases of allergic skin reactions have been observed. Liquid splashes can lead to irritations of the eyes. Inhaling of drolets in the air or aerosols may lead to irritations of the respiratory tract . Ingestion may cause nausea, weakness and affect the central nervous system.

SECTION 12: Ecological information

12.1 Toxicity

Based on available data, the classification criteria are not met.

Do not allow to enter into surface water or drains.

Ethoxylated Trimethylolpropanetriacrylate
* = 70.7 mg/L (48 h)
Method: OECD 202

Ethoxylated Trimethylolpropanetriacrylate
* LC50: (Danio rerio (zebrafish)): = 1.95 mg/L (96 h)
Method: OECD 203

Ethoxylated Trimethylolpropanetriacrylate
* ErC50: (Desmodesmus subspicatus): = 2.2 mg/L (72 h)
Method: OECD 201

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

polymeric photoinitiator
Bioconcentration factor (BCF) = 2.21

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes/waste designations according to EWC/AVV

080111* - Waste paint and varnish containing organic solvents or other dangerous substances
Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Other disposal recommendations

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

SECTION 14: Transport information

14.1 UN number

not applicable

14.2 UN proper shipping name

Land transport (ADR/RID)

No dangerous good in sense of these transport regulations.

Sea transport (IMDG)

No dangerous good in sense of these transport regulations.

Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of these transport regulations.

14.3 Transport hazard class(es)

not applicable

14.4 Packing group

not applicable

14.5 Environmental hazards

Land transport (ADR/RID)	not applicable
Sea transport (IMDG)	not applicable

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

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No transport as bulk according to IBC Code.

14.8 Additional information

Land transport (ADR/RID)

not applicable

Sea transport (IMDG)

Air transport (ICAO-TI / IATA-DGR)

not applicable

SECTION 15: Regulatory information

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

EU legislation

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).

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

* VOC-value: 0.054 g/l

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Hazard categories / Named dangerous substances

This product is not classified according to Directive 2012/18/EU.

National regulations

* VOC (CH): 0.0 %

15.2 Chemical Safety Assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

	REACH No.	Substance name	CAS No.	EC No.
	01-2119484613-34-XXXX	(1-methyl-1,2-ethanediyl)bis[oxy(methyl-2,1-ethanediyl)] diacrylate	42978-66-5	256-032-2
*	01-2119489900-30-XXXX	Ethoxylated Trimethylolpropanetriacrylate	28961-43-5	500-066-5
	01-2119484629-21-xxxx	Oxybis(methyl-2,1-ethanediyl) diacrylate	57472-68-1	260-754-3

SECTION 16: Other information

Relevant R-, H- and EUH-phrases (Number and full text)

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Eye Dam. 1	Calculation method.
Skin Sens. 1	Calculation method.

Abbreviations and acronyms

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Indication of changes

* Data changed compared with the previous version

* **Additional information**

* 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 section 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.