

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2015/830

Article No.:	LM 4716	"One Way" Excimer lacquer	
Print date:	17.05.2019	Revision date: 17.05.2019	11850 EN
Version:	1.3	Issue date: 17.05.2019	Page 1 / 11

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

1.1. Product identifier

Article No. (manufacturer/supplier)	LM 4716
Trade name/designation	"One Way" Excimer lacquer

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

Relevant identified uses

UV-Lacquer

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Lott-Lacke GmbH	
Bunsenstrasse 22	+49 (0) 5221 - 29794-0
32052 Herford	+49 (0) 5221 - 29794-68
	info@lott-lacke.de
	www.lott-lacke.de

Information contact:

+49 (0) 5221 - 29794-0

1.4. Emergency telephone number

Germany 0800-181-7059
USA/Canada 1-800-424-9300
Outside USA/Canada +001 703 527 3887
China 4001 204937 (Mandarin)
Hong Kong 800 968 793 (Cantonese)
(WISAG FMO Cargo Service GmbH & Co. KG CCN 721219)

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].

Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Danger

Hazard statements

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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 or doctor/ physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

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hexamethylene diacrylate

Supplemental Hazard information (EU)

not applicable

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description acrylic resin

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

EC No. CAS No. INDEX No.	REACH No. Designation classification: // Remark	Wt %
235-921-9 13048-33-4 607-109-00-8	01-2119484737-22-0000 hexamethylene diacrylate Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 2 H411	25 < 50
	acrylated resin Eye Irrit. 2 H319	12,5 < 20
603-069-0 125455-51-8	siloxanes and silikonnes, 3-[(acetyloxy)-2-hydroxypropoxy]propyl Me, di-Me, 3-[(1-oxo-2-propen-1-yl)oxy]propoxy]propyl Me Skin Sens. 1A H317	< 0,5

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Call a physician immediately.
Take off immediately all contaminated clothing.
Show this safety data sheet to the doctor in attendance.
Self-protection of the first aider.
If unconscious place in recovery position and seek medical advice.
If breathing is irregular or stopped, administer artificial respiration.
Remove affected person from the danger area and lay down.
Never give anything by mouth to an unconscious person or a person with cramps.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.
Call a physician immediately.
If unconscious place in recovery position and seek medical advice.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners. Conditions to avoid: UV-radiation/sunlight
Call a physician immediately.
Wash contaminated clothing before reuse.

After eye contact

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

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medical advice immediately.

Show this safety data sheet to the doctor in attendance.

After ingestion

Remove casualty to fresh air and keep warm and at rest.

Seek medical advice immediately.

Show this safety data sheet to the doctor in attendance.

Keep victim calm. Do NOT induce vomiting.

Rinse mouth immediately and drink plenty of water.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious place in recovery position and seek medical advice.

Do not leave affected person unattended.

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

First Aid, decontamination, treatment of symptoms.

Symptoms

May irritate eyes.

May irritate skin.

May cause sensitization by skin contact.

Danger

First aider: Pay attention to self-protection!

Special treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

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. In case of fire may be liberated: Gases/vapours, harmful, carbon dioxide, carbon monoxide.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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.

Keep people away from and upwind of spill/leak.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

Wear suitable protective clothing.

Avoid contact with eyes and skin.

See protective measures under point 7 and 8.

Handle in accordance with good industrial hygiene and safety practice.

Keep people away from and upwind of spill/leak.

Special danger of slipping by leaking/spilling product.

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

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). Clean using cleansing agents. Do not use solvents.

Remove persons to safety.

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6.4. Reference to other sections

SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Advices on safe handling

Use only in well-ventilated areas. Keep away from heat sources, sparks and open flames. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Wash hands before breaks and after work.

Take off immediately all contaminated clothing.

Take precautionary measures against static discharges.

Contaminated work clothing should not be allowed out of the workplace.

Handle and open container with care.

Handle in accordance with good industrial hygiene and safety practice.

Keep work clothes separately.

Wash contaminated clothing prior to re-use.

Keep away from food, drink and animal feedingstuffs.

Guarantee that the eye flushing systems and safety showers are closely located to the working place.

Handle and open container with care.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden.

Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from: Radical former, Oxidizing agent, Peroxides, Reducing agent, Acids, Alkali (lye).

Keep away from food, drink and animal feedingstuffs.

Do not store together with oxidizing and self-igniting products.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C.

Protect from heat and direct sunlight.

Keep container tightly closed.

Remove all sources of ignition.

Smoking is forbidden.

Store carefully closed containers upright to prevent any leaks.

Keep only in the original container.

Can polymerise exothermically if heated, exposed to air, sunlight or by addition of free radical initiators.

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

not applicable

DNEL:

hexamethylene diacrylate

INDEX No. 607-109-00-8 / EC No. 235-921-9 / CAS No. 13048-33-4

DNEL short-term oral (acute), Workers: 2,77 mg/kg

DNEL long-term inhalative (systemic), Workers: 24,48 mg/m³

DNEL long-term oral (repeated), Consumer: 2,08 mg/kg

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DNEL long-term dermal (systemic), Consumer: 1,66 mg/kg
DNEL long-term inhalative (systemic), Consumer: 7,24 mg/m³

PNEC:

hexamethylene diacrylate

INDEX No. 607-109-00-8 / EC No. 235-921-9 / CAS No. 13048-33-4

PNEC aquatic, freshwater: 0,0015 mg/l

PNEC aquatic, marine water: 0,0002 mg/l

PNEC sediment, freshwater: 0,0137 mg/kg

PNEC, soil: 0,004 mg/kg

PNEC sewage treatment plant (STP): 2,7 mg/l

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

If the pollutant concentration 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). Use only respiratory protection equipment with CE-symbol including four digit test number.

respirator with A/P-filter (EN 14387)

Hand protection

For prolonged or repeated handling the following glove material must be used: Chemical proof safety gloves

Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.

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

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear eye glasses with side protection according to EN 166.

Body protection

Wear suitable protective clothing.

Protective measures

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

Take off immediately all contaminated clothing.

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Wash contaminated clothing prior to re-use.
When using do not eat, drink or smoke.
Handle in accordance with good industrial hygiene and safety practice.
Keep away from food, drink and animal feedingstuffs.
Guarantee that the eye flushing systems and safety showers are closely located to the working place.
Do not breathe vapour/aerosol.
Avoid contact with eyes and skin.
Do not allow food at the workplace.

Environmental exposure controls

Do not allow to enter into surface water or drains.
Discharge into the environment must be avoided.
If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.
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
Odour:	characteristic
Odour threshold:	not determined
pH at 20 °C:	not determined
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	not determined
Flash point:	> 60 °C Method: DIN 53213
Evaporation rate:	not determined
flammability	
Burning time (s):	not applicable
Upper/lower flammability or explosive limits:	
Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure at 20 °C:	not determined
Vapour density:	not determined
Relative density:	
Density at 20 °C:	not determined
Solubility(ies):	
Water solubility (g/L) at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Auto-ignition temperature:	235 °C Source: hexamethylene diacrylate
Decomposition temperature:	not determined
Viscosity at °C:	-
Explosive properties:	not applicable
Oxidising properties:	not applicable

9.2. Other information

Solid content (%):	not determined
solvent content:	
Organic solvents:	not determined
Water:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

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No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

Further remarks: SECTION 7: Handling and storage

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

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.

Protect from frost.

10.5. Incompatible materials

Radical former, Oxidizing agent, Peroxides, Reducing agent, Acids, Alkali (lye)

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, Gases/vapours, harmful.

SECTION 11: Toxicological information

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

No data on preparation itself available.

11.1. Information on toxicological effects

Acute toxicity

hexamethylene diacrylate

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: 3600 mg/kg

acrylated resin

oral, LD50, Rat: > 2000 mg/kg

dermal, LD50, Rabbit: > 2000 mg/kg

Skin corrosion/irritation; Serious eye damage/eye irritation

Causes skin irritation.

Causes serious eye damage.

hexamethylene diacrylate

Skin, Rabbit

Method: OECD 404

irritant.

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Respiratory or skin sensitisation

May cause an allergic skin reaction.

hexamethylene diacrylate

Skin, Guinea pig:

Method: Regulation (EC) No. 440/2008, Annex, B.6 (Maximisation test)

Sensitising

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

acrylated resin

Germ cell mutagenicity

Ames test negative.

STOT-single exposure; 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 droplets in the air or aerosols may lead to irritations of the respiratory tract. Ingestion may cause nausea, weakness and affect the central nervous system.

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.

SECTION 12: Ecological information

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

There is no information available on the preparation itself.

Do not allow to enter into surface water or drains.

12.1. Toxicity

Very toxic to aquatic organisms.

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Toxicological data are not available.

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12.3. Bioaccumulative potential

hexamethylene diacrylate

Partition coefficient: n-octanol/water: 2,81

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not 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

Appropriate disposal / Product Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

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

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

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

SECTION 14: Transport information

14.1. UN number

UN 3082

14.2. UN proper shipping name

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.
(HEXANE-1,6-DIOL DIACRYLATE)

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(HEXANE-1,6-DIOL DIACRYLATE)

Air transport (ICAO-TI / IATA-DGR):

Environmentally hazardous substance, liquid, n.o.s.
(HEXANE-1,6-DIOL DIACRYLATE)

14.3. Transport hazard class(es)

9

14.4. Packing group

III

14.5. Environmental hazards

Land transport (ADR/RID)

Environmental hazardous

Marine pollutant

p / HEXANE-1,6-DIOL DIACRYLATE

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.

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Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

tunnel restriction code	-
in packages <= 5 litres	Kein Gut der Klasse 9

Sea transport (IMDG)

EmS-No.	F-A, S-F
in packages <= 5 litres	not restricted 2.10.2.7

Air transport (ICAO-TI / IATA-DGR)

in packages <= 5 litres	not restricted
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- 14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**
not applicable

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions

VOC-value (in g/L): not determined

National regulations

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Full text of classification in section 3:

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

Classification procedure

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

Skin Irrit. 2	Skin corrosion/irritation	Calculation method.
Eye Dam. 1	Serious eye damage/eye irritation	Calculation method.
Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community

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EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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