

Safety Data Sheet

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

according to Regulation (EU) No. 453/2010

Premium Leuchtstoffe GbR 14419

Article no.: AR-0601-GL410

Print date: 28.09.2017

Version: 1.1

Transparent, Lumi, blue-green

Revision date: 22.09.2017

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

1.1. Product identifiers

Article no. (manufacturer/supplier): AR-0601-GL410
Name of the substance or mixture: Transparent, Lumi, blue-green
smooth/glossy.
8 min 160 °C obj. temp.

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

Relevant identified uses

Electrostatic coating of metal surfaces

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor)

Ganzlin Beschichtungspulver GmbH

Grüner Weg 1

19395 Ganzlin

www.ganzlin.com

Telephone: 038737 / 3030

Fax: 038737 / 30311

Department providing information:

Laboratory

This number is staffed during office hours only: Telephone: 038737 / 303-42 /-43

E-mail: pe@ganzlin.com

1.4. Emergency telephone number

Emergency telephone number: 038737 / 303-60

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 within the meaning of Regulation (EC) No. 1272/2008 [CLP].

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 Chronic 3 / H412 Hazardous to the aquatic environment Harmful 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

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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- 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.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P501 Dispose of contents/container to an industrial incineration plant.

contains:

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
Siberclear 202 OP 6H-dibenz(c,e)(1,2)oxaphosphorin-

Supplemental hazard information (EU)

not applicable

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterisation

Description

Powder coating based on polyester resin

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH no. Chemical name Classification: // Remark	wt-%
940-592-6	01-2120065788-39 Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / STOT RE 2 H373 / Aquatic Chronic 2 H411	2.5 - 5
252-813-7 35948-25-5	Siberclear 202 OP 6H-dibenz(c,e)(1,2)oxaphosphorin-6-oxide Skin Sens. 1 H317	0.5 - 1

Additional information

Full text of the classifications: see Section 16

SECTION 4: First-aid measures

4.1. Description of first-aid measures

General information

If symptoms occur or in case of doubt, seek medical advice. If the person is unconscious, do not administer anything by mouth, place in the recovery position and seek medical advice.

Following inhalation

Move the affected person into the fresh air and keep them warm and at rest. In case of irregular breathing or respiratory arrest, start artificial respiration.

Following skin contact

Remove soiled or soaked clothing immediately. In case of contact with the skin, wash off immediately with plenty of soap and water. Do not use solvents or thinners.

Following 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 the affected person at rest. Do NOT induce vomiting.

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

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If symptoms occur or in case of doubt, seek medical advice.

4.3. Mammalian cells (with metabolic activation)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

alcohol-resistant foam, carbon dioxide blanket, water spray, (water)

Extinguishing media which must not be used for safety reasons:

inert gas under high pressure (e.g. carbon dioxide), direct water jet

5.2. Special hazards arising from the substance or mixture

Dense black smoke is produced in the event of fire. Inhalation of hazardous decomposition products may cause serious damage to health.

5.3. Advice for firefighters

Keep breathing apparatus ready. Cool closed containers near the seat of the fire with water. Do not allow firefighting water to enter the sewage system, the soil or watercourses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate the affected area. Inhalation of dust must be avoided at all costs. See protective measures under points 7 and 8.

6.2. Environmental precautions

Do not allow to enter the sewage system or watercourses. In case of contamination of rivers, lakes or sewers, inform the responsible authorities in accordance with local legislation.

6.3. Methods and material for containment and cleaning up

Pick up spilled material dry with an explosion-proof vacuum cleaner, or moistened with a broom, and collect it in the containers provided for disposal in accordance with local regulations (see Section 13).

6.4. Reference to other sections

Observe the protective regulations (see Sections 7 and 8).

SECTION 7: Handling and storage

Persons suffering from respiratory problems or allergic reactions should not handle powder coatings!

7.1. Precautions for safe handling

Advice on safe handling

If dust formation exceeds the occupational exposure limits, approved respiratory protective equipment suitable for this purpose must be worn. Lighting and other electrical equipment must be explosion-proof in order to avoid the formation of hot surfaces, ignition sparks and other sources of ignition. The material can become electrostatically charged. Provide earthing for containers, equipment, pumps and extraction systems. Keep away from sources of heat, sparks and open flames. Avoid contact with skin, eyes and clothing. Do not breathe dusts, particles or spray mist when using this preparation. Avoid breathing sanding dust. Do not eat, drink or smoke while working. Personal protective equipment: see Section 8. Always keep in containers made of the same material as the original container. Comply with statutory protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and containers

Store in accordance with the German Ordinance on Industrial Safety and Health (BetrSichV). Keep containers tightly closed. Never empty containers using pressure – not a pressure vessel! No smoking. Access is prohibited to unauthorised persons. Store containers carefully closed and upright in order to prevent any leakage. Floors must comply with the "Guidelines for avoiding ignition hazards due to electrostatic charges (TRBS 2153)".

Further information on storage conditions

Observe the information on the label. Store in well-ventilated, dry rooms between 15 °C and 25 °C. Protect from heat and direct sunlight. Keep containers tightly closed. No smoking. Access is prohibited to unauthorised persons. Store containers carefully closed and upright in order to prevent any leakage.

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Storage class

13 = non-combustible solids

7.3. Specific end uses

Observe the technical data sheet. Observe the instructions for use.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Occupational exposure limit values

not applicable

DNEL:

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
EC No. 940-592-6

DNEL long-term dermal (systemic), workers: 0.25 mg/kg

DNEL acute inhalation (systemic), workers: 0.88 mg/m³

DNEL long-term inhalation (systemic), workers: 0.88 mg/m³

DNEL long-term oral (repeated), consumers: 0.62 mg/kg

PNEC:

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
EC No. 940-592-6

PNEC water, fresh water: 0.0027 mg/l

PNEC water, marine water: 0.0002 mg/l

PNEC water, intermittent release: 0.0272 mg/l

PNEC sediment, fresh water: 0.044 mg/kg

PNEC sediment, marine water: 0.0044 mg/kg

PNEC soil: 0.0072 mg/kg

PNEC sewage treatment plant (STP): 32 mg/l

8.2. Exposure controls

Do not breathe dust. This can be achieved by local or room extraction. If dust formation exceeds the occupational exposure limits, approved respiratory protective equipment suitable for this purpose must be worn.

Occupational exposure controls

Respiratory protection

If dust formation exceeds the occupational exposure limits, approved respiratory protective equipment suitable for this purpose must be worn. The wearing-time limits according to the German Hazardous Substances Ordinance (GefStoffV) in conjunction with the rules for the use of respiratory protective equipment (BGR 190) must be observed. Use only respiratory protective equipment bearing a CE mark including a four-digit test number.

Hand protection

For prolonged or repeated handling, the following glove material must be used: NBR (nitrile rubber). The instructions and information of the protective glove manufacturer regarding use, storage, maintenance and replacement must be observed. Breakthrough time of the glove material depends on the intensity and duration of skin exposure. Recommended glove makes: DIN EN 374. Barrier creams can help to protect exposed areas of the skin. They should never be applied after contact has occurred.

Eye protection

Wear safety goggles where dust is generated.

Body protection

Wear antistatic clothing made of natural fibre (cotton) or heat-resistant synthetic fibre.

Protective measures

After contact, clean the skin thoroughly with soap and water or use a suitable cleansing agent.

Environmental exposure controls

Do not allow to enter the sewage system or watercourses. See Section 7. No measures beyond this are required.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance:

Physical state:	solid
Appearance:	powder
Colour:	see label
Odour:	characteristic
Odour threshold:	not applicable
pH value at 20 °C:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	not applicable
Flash point:	not applicable
Evaporation rate:	not applicable

Flammability (solid, gas):

Burning time (s):	not applicable
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Upper/lower flammability or explosive limits:

Lower explosion limit:	not determined
Upper explosion limit:	not determined
Vapour pressure at 20 °C:	not applicable
Vapour density:	not applicable

Relative density:

Density at 20 °C:	1.39 g/cm ³
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Solubility(ies):

Water solubility (g/L) at 20 °C:	insoluble
Partition coefficient n-octanol/water:	see Section 12
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
Viscosity at °C:	solid
Explosive properties:	not applicable
Oxidising properties:	not applicable

Explosion characteristics for drawing up the explosion protection document according to the ATEX product directive

The following characteristic values are literature values. The powder coatings of Ganzlin Beschichtungspulver GmbH have not yet been explicitly tested in this respect. These averaged values apply to polyester, epoxy and hybrid powders.

Characteristic values:

lower explosion limit for the dust/air mixture:	30 - 90 g/m ³	ISO 8130/4
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For the design of plants it is recommended not to exceed 10 g of powder coating / m³ of air.

Ignition temperature for the dust/air mixture:	450 - 600 °C	VDE 0165
Minimum ignition energy:	5 - 20 mJ	

In air, powder coatings can cause dust explosions, usually of explosion class St 1. For powders with a high metal powder content, St 2 is sometimes found.

The characteristic values apply to powder coatings with a normal commercial particle size distribution, not to the much finer (ultra) thin-film powders.

These values correspond to the current state of knowledge in science and practice. This information is non-binding. It is not subject to our liability.

9.2. Other information

Solids content (%):	100.00 wt-%
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Solvent content:

Organic solvents: 0 wt-%

Water: 0 wt-%

Bulk density

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stable when the recommended regulations for storage and handling are applied. Further information on proper storage: see Section 7.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Stable when the recommended regulations for storage and handling are applied. Further information on proper storage: see Section 7.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Hazardous decomposition products may be formed at high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

There are no data on the preparation itself.

11.1. Information on toxicological effects

Acute toxicity

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
oral, LD50, rat: 300 - 2000 mg/kg

Skin corrosion/irritation; serious eye damage/eye irritation

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
Skin, rabbit.

Method: OECD 404

not irritant.

Eyes, rabbit.

Method: OECD 405

Irritant.

Respiratory/skin sensitisation

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
Skin, albino guinea pig.

Method: OECD 406

CMR effects (carcinogenic, mutagenic and toxic for reproduction)

Reaction mass of bis(2,3-epoxypropyl) terephthalate and tris(oxiranylmethyl) benzene-1,2,4-tricarboxylate
Germ cell mutagenicity; assessment positive.

Method: OECD 471 (Ames test).

Carcinogenicity; assessment positive.

Method: OECD 473.

Reproductive toxicity; assessment positive.

Method: OECD 476

Lactation; assessment negative.

Method: OECD 483.

Specific target organ toxicity

No toxicological data available.

Aspiration hazard

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No toxicological data available.

Practical experience / experience in humans

Other observations:

Powder coatings can cause local skin irritation, particularly in skin folds or when tight clothing is worn.

Summary evaluation of the CMR properties

The ingredients of this mixture do not meet the criteria for CMR categories 1A or 1B according to CLP.

Remark

No data are available on the preparation itself.

SECTION 12: Ecological information

Overall assessment

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

No data are available on the preparation itself.

Powder coating residues should not enter the sewage system or watercourses or be deposited, as they may affect ground or surface water.

12.1. Toxicity

No information available.

Long-term ecotoxicity

No toxicological data available.

12.2. Persistence and degradability

No toxicological data available.

12.3. Bioaccumulative potential

No toxicological data available.

Bioconcentration factor (BCF)

No toxicological data available.

12.4. Mobility in soil

No toxicological data 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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Proper disposal / product

Recommendation

Do not allow to enter the sewage system or watercourses. Waste and containers must be disposed of in a safe manner. Disposal in accordance with Directive 2008/98/EC on waste and hazardous waste.

Proposed list of waste codes/waste designations according to the German Waste Catalogue Ordinance (EAKV)

080201 waste coating powders

Packaging

Recommendation

Uncontaminated packaging emptied of residues can be recycled. Containers that have not been properly emptied are special waste.

SECTION 14: Transport information

Not a dangerous good within the meaning of the transport regulations.

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14.1. UN number

not applicable

14.2. UN proper shipping name

14.3. Transport hazard classes

not applicable

14.4. Packing group

not applicable

14.5. Environmental hazards

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

14.6. Special precautions for user

Always transport in closed, upright and secure containers. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Advice on safe handling: see Sections 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code

-

Sea transport (IMDG)

EmS No.

not applicable

Air transport (ICAO-TI / IATA-DGR)

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 regulations

Directive 2010/75/EU on industrial emissions

VOC value (in g/L):

0

National regulations

Information on employment restrictions

Observe the employment restrictions under the German Maternity Protection Directive Ordinance (92/85/EEC) for expectant or nursing mothers.

Observe the employment restrictions under the German Youth Employment Protection Act (94/33/EC).

Water hazard class (WGK)

2

German Ordinance on Industrial Safety and Health (BetrSichV)

not applicable

German Technical Instructions on Air Quality Control (TA-Luft)

TA-Luft (2002) Section 5.2.5 Organic substances

not covered by TA-Luft.

Other regulations, restrictions and prohibition ordinances

Rules of the German employers' liability insurance associations (BGR)

15.2. Chemical safety assessment

Chemical safety assessments have not been carried out for the substances in this preparation.

SECTION 16: Other information

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Full text of the classifications from Section 3:

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.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms

For abbreviations and acronyms see ECHA: Guidance on information requirements and chemical safety assessment, Chapter R.20 (Table of terms and abbreviations).

Further information

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

The information in this safety data sheet corresponds to our current state of knowledge as well as to national and EU regulations. The product must not be used for any purpose other than that stated in Section 1 without written permission. It is always the responsibility of the user to take all necessary measures to comply with the requirements laid down in local rules and legislation. The information in this safety data sheet describes the safety requirements of our product and does not constitute a warranty of product properties.

NA = not applicable