

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830 - Germany

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

1.1 Product identifier

Product code 120152
Product name INMOTIQ Powder Topcoat
W841
Schwarz, hochglänzend, glatt

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

Product use Duroplastic powder coating used for industrial coating of metal.

1.3 Details of the supplier of the safety data sheet

Manufacturer KARL WOERWAG
Lack- und Farbenfabrik GmbH & Co.KG
Kornwestheimer Straße 49, 70825 Korntal-Münchingen
Postfach 40 09 69, 70409 Stuttgart
Deutschland
Tel.: +49(0)711 - 8296 - 0
Fax: +49(0)711 - 8296 - 1222
e-Mail: sdb@woerwag.com
Information contact EHS, Regulatory affairs / +49(0)711 - 8296 -1466

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) +49(0)711 - 8296 - 1242 (Dangerous Goods only / 24 h / Support in German and English)

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]

Eye Irrit. 2, H319
Carc. 1B, H350
Repr. 1B, H360F (Fertility)
Aquatic Chronic 3, H412

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

Date of issue/Date of revision 17. May 2022

SECTION 2: Hazards identification

Hazard statements	H319 - Causes serious eye irritation. H350 - May cause cancer. H360F - May damage fertility. H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>	
Prevention	P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection. P273 - Avoid release to the environment.
Response	P308 + P313 - IF exposed or concerned: Get medical attention. P305 + P351 - IF IN EYES: Rinse cautiously with water for several minutes.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	2,3-epoxypropyl methacrylate
Supplemental label elements	Contains 2,3-epoxypropyl methacrylate. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Restricted to professional users.

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	May form explosible dust-air mixture if dispersed.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

Product/ingredient name	Identifiers	%	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
dodecanedioic acid	REACH #: 01-2119543732-40 EC: 211-746-3 CAS: 693-23-2	20 - 25	Eye Irrit. 2, H319	[1]
barium sulfate, synthetic	REACH #: 01-2119491274-35 EC: 231-784-4 CAS: 7727-43-7	5 - 10	Not classified.	[2]
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl] butylmalonate	REACH #: 01-2119978231-37 EC: 264-513-3 CAS: 63843-89-0	0.3 - 1	Acute Tox. 4, H302 STOT RE 1, H372 (lymphatic system) Aquatic Chronic 1, H410 (M=1)	[1]
2,3-epoxypropyl	REACH #:	0.3 - 1	Acute Tox. 4, H302	[1] [2]

SECTION 3: Composition/information on ingredients

methacrylate	01-2119444916-30 EC: 203-441-9 CAS: 106-91-2 Index: 607-123-00-4		Acute Tox. 3, H311 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Carc. 1B, H350 Repr. 1B, H360F (Fertility) STOT SE 3, H335 STOT RE 1, H372 (respiratory tract) (inhalation)	
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	0.3 - 1	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 (oral) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	REACH #: 01-2119458771-32 EC: 205-685-1 CAS: 147-14-8	0.1 - 0.3	Not classified.	[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 or vPvBs 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

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

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

Substances of very high concern

None of the components are listed.

SECTION 4: First aid measures

4.1 Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.

Inhalation

Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

SECTION 4: First aid measures

Ingestion	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Coating powders can cause localized skin irritation in folds of the skin or under tight clothing.

Contains 2,3-epoxypropyl methacrylate. May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	Recommended: alcohol-resistant foam, CO ₂ blanket, water spray or mist.
Unsuitable extinguishing media	Do not use water jet. Do not use inert gas under high pressure (e.g. CO ₂).

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

Special protective actions for fire-fighters	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Exclude sources of ignition and ventilate the area. Avoid breathing dust. Refer to protective measures listed in sections 7 and 8.

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

Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and materials for containment and cleaning up

Contain and collect spillage with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not use a dry brush as dust clouds or static can be created.

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

7.1 Precautions for safe handling

Advice should be taken from a competent occupational health practitioner on the assessment of employees with skin or respiratory complaints before the individual is exposed to the uncured product.

Precautions should be taken to prevent the formation of dusts in concentrations above flammable, explosive or occupational exposure limits.

Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.

Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all cases. In such circumstances, they should wear a compressed-air-fed respirator during the spraying process and until the particulate and solvent vapor concentrations have fallen below the exposure limits.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and storage

Store in accordance with local regulations.

Additional information on storage conditions

Observe label precautions. Store between the following temperatures: 12 to 20°C (53.6 to 68°F). Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight.

Keep container tightly closed.

Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

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
Barium sulfate, synthetic	TRGS 900 OEL (Germany, 11/2017). TWA: 1.25 mg/m ³ 8 hours. Form: alveolar fraction PEAK: 2.5 mg/m ³ 15 minutes. Form: alveolar fraction PEAK: 20 mg/m ³ 15 minutes. Form: inhalable fraction TWA: 10 mg/m ³ 8 hours. Form: inhalable fraction DFG MAC-values list (Germany, 7/2017). TWA: 4 mg/m ³ 8 hours. Form: inhalable fraction TWA: 0.3 mg/m ³ 8 hours. Form: respirable fraction PEAK: 2.4 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction
2,3-epoxypropyl methacrylate xylene	DFG MAC-values list (Germany, 7/2017). Skin sensitizer. TRGS 900 OEL (Germany, 11/2015). Absorbed through skin. TWA: 440 mg/m ³ 8 hours. PEAK: 880 mg/m ³ 15 minutes. TWA: 100 ppm 8 hours. PEAK: 200 ppm 15 minutes. DFG MAC-values list (Germany, 7/2015). Absorbed through skin. TWA: 100 ppm 8 hours. PEAK: 200 ppm, 4 times per shift, 15 minutes. TWA: 440 mg/m ³ 8 hours. PEAK: 880 mg/m ³ , 4 times per shift, 15 minutes.
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	DFG MAC-values list (Germany, 7/2018). PEAK: 0.02 mg/m ³ , 4 times per shift, 15 minutes. Form: respirable fraction TWA: 0.01 mg/m ³ 8 hours. Form: respirable fraction

SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate 2,3-epoxypropyl methacrylate	DNEL	Long term Oral	3 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.01 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	33 µg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.05 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	0.07 mg/kg bw/day	Workers	Systemic
	DMEL	Long term Inhalation	0.045 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	0.24 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	0.72 mg/m ³	Workers	Local
	DMEL	Long term Dermal	0.01276 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.00224 mg/cm ²	Workers	Local
	DNEL	Short term Dermal	0.00672 mg/cm ²	Workers	Local

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
2,3-epoxypropyl methacrylate	Fresh water	0.01 mg/l	Assessment Factors
	Marine water	0.001 mg/l	Assessment Factors
	Sewage Treatment Plant	10 mg/l	Assessment Factors
	Fresh water sediment	0.09 mg/kg dwt	Assessment Factors
	Marine water sediment	0.009 mg/kg dwt	Assessment Factors
	Soil	0.09 mg/kg dwt	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

Avoid breathing dust. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain exposure to dusts below the OEL, suitable respiratory protection must be worn.

SECTION 8: Exposure controls/personal protection

Individual protection measures

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Safety eyewear should be used when there is a likelihood of exposure.
<u>Skin protection</u>	
Hand protection	The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.
Body protection	Contact of the product with skin or eyes may cause irritation. Personnel should wear protective clothing. Care should be taken in the selection of protective clothing to ensure that inflammation and irritation of the skin at the neck and wrists through contact with the powder are avoided.
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	Particulate filter (Type A2P3)
Environmental exposure controls	Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Solid. [Powder.]
Color	Black.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	>70°C
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	40 - 70 g/m ³
Vapor pressure	Not available.
Vapor density	Not available.
Density	1.23 g/cm ³
Method	DIN 53217
Solubility(ies)	Not available.

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water	Not available.
Miscible in water.	No.
Auto-ignition temperature	Not available.
Ignition temperature	450 - 600°C / 840 - 1110°F (dust/air-mixture)
Decomposition temperature	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
Solids content (by Weight)	99 %

9.2 Other information

Solubility in water Not available.

Recommended value for powder in air for plant design: not to exceed 10 g/m³.

Minimum ignition energy (mJ) Not available.

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	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	Not applicable.
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 toxicological effects

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact. Coating powders can cause localized skin irritation in folds of the skin or under tight clothing.

Contains 2,3-epoxypropyl methacrylate. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dodecanedioic acid	LD50 Dermal	Rat	>6000 mg/kg	-
2,3-epoxypropyl methacrylate	LD50 Dermal	Rabbit	480 mg/kg	-
	LD50 Oral	Rat	597 mg/kg	-

SECTION 11: Toxicological information

Conclusion/Summary Not available.

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
INMOTIQ Powder Topcoat	N/A	94043.9	N/A	N/A	N/A
dodecanedioic acid	3038	N/A	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl] butylmalonate	1490	3101	N/A	N/A	N/A
2,3-epoxypropyl methacrylate	597	480	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
dodecanedioic acid	Eyes - Mild irritant	Rabbit	-	0.1 Milliliters	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl] butylmalonate	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
2,3-epoxypropyl methacrylate	Skin - Visible necrosis	Rabbit	-	4 hours	4 hours
	Eyes - Severe irritant	Rabbit	-	-	-

Conclusion/Summary Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
2,3-epoxypropyl methacrylate	skin	Guinea pig	Sensitizing

Conclusion/Summary Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2,3-epoxypropyl methacrylate	EU	Experiment: In vitro Subject: Bacteria	Positive
	473 <i>In vitro</i> Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Positive

Conclusion/Summary No known significant effects or critical hazards.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
2,3-epoxypropyl methacrylate	Positive - Oral - TD	Rat	57 mg/kg	103 weeks; 5 days per week

Conclusion/Summary No known significant effects or critical hazards.

Reproductive toxicity

SECTION 11: Toxicological information

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
2,3-epoxypropyl methacrylate	Negative	Positive	Negative	Rat	Oral: 30 mg/kg	47 days

Conclusion/Summary No known significant effects or critical hazards.

Teratogenicity

Conclusion/Summary No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
2,3-epoxypropyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis (1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate	Category 1	Not determined	lymphatic system
2,3-epoxypropyl methacrylate	Category 1	Inhalation	respiratory tract

Aspiration hazard

Not available.

Information on the likely routes of exposure Not available.

Potential acute health effects

Eye contact Causes serious eye irritation.

Inhalation Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.

Skin contact No known significant effects or critical hazards.

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 or irritation
watering
redness

Inhalation Adverse symptoms may include the following:
respiratory tract irritation
coughing
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

SECTION 11: Toxicological information

Ingestion Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

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

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

Product/ingredient name	Result	Species	Dose	Exposure
2,3-epoxypropyl methacrylate	Sub-chronic NOAEL Inhalation Vapor	Rat	12 mg/m ³	13 weeks

Conclusion/Summary Not available.

General Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Carcinogenicity May cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity No known significant effects or critical hazards.

Teratogenicity No known significant effects or critical hazards.

Developmental effects No known significant effects or critical hazards.

Fertility effects May damage fertility.

Other information Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself.

Coating powder residues should not be allowed to enter drains or watercourses or be deposited where they could affect ground or surface waters.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
2,3-epoxypropyl methacrylate	Acute EC50 14.6 mg/l	Algae - Pseudokirchneriella subcapita	72 hours
	Acute EC50 24.9 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 2.8 mg/l	Fish - Oryzias latipes	96 hours
	Chronic NOEC 3.2 mg/l	Algae - Pseudokirchneriella subcapita	72 hours
	Chronic NOEC 1.02 mg/l	Daphnia - Daphnia magna	21 days
	Chronic NOEC 1.2 mg/l	Fish	14 days

Conclusion/Summary Not available.

12.2 Persistence and degradability

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
2,3-epoxypropyl methacrylate	301C Ready Biodegradability - Modified MITI Test (I)	96 % - Readily - 28 days	-	-

Conclusion/Summary Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
dodecanedioic acid	-	-	Readily
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl] butylmalonate	-	-	Not readily
2,3-epoxypropyl methacrylate	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
dodecanedioic acid	3.2	3.162	low
bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl] butylmalonate	<1	49.3 to 437.1	low
2,3-epoxypropyl methacrylate	0.96	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) 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 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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.

SECTION 13: Disposal considerations

Disposal considerations	Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.
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.
Disposal considerations	Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
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	Not regulated.	9005	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.	-	-
14.3 Transport hazard class(es)	-	9	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	Yes.	No.	No.

Additional information

ADN	The product is only regulated as a dangerous good when transported in tank vessels.
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 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

None of the components are listed.

Annex XVII - Restrictions on Manufacture, Marketing and Use

Ingredient name	CAS #	EC number	%	Restriction
INMOTIQ Powder Topcoat			75 - 100	28, 30
2,3-epoxypropyl methacrylate	106-91-2	203-441-9	0.3 - 1	28, 30
xylene	1330-20-7	215-535-7	0.3 - 1	3

Other EU regulations

VOC content 0.8 % (w/w)

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
2,3-epoxypropyl methacrylate	Carc. 1B, H350	Muta. 2, H341	-	Repr. 1B, H360F (Fertility)

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Industrial use

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

Product/ingredient name	List name	Name on list	Classification	Notes
barium sulfate, synthetic	DFG MAC-values list	Barium sulfate	K3	-
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	DFG MAC-values list	(Respirable fraction) Copper and its inorganic compounds	Listed	-

Storage class (TRGS 510) 6.1D

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water 3

Technical instruction on air quality control
 TA-Luft Number 5.2.1: 97.9%
 TA-Luft Class I - Number 5.2.5: 1%
 TA-Luft Number 5.2.5: 0.8%
 TA-Luft Class III - Number 5.2.2: 0.2%

References

Law on the protection of young workers
 Technical Rules for Hazardous Substances (TRGS): Occupational Exposure Limits (TRGS 900)
 Regulation on the protection against hazardous chemicals
 Regulation on the complementary implementation of the EC Directive on Maternity Protection (MuSchRiv - Maternity Protection Directive Regulation)

International regulations

SECTION 15: Regulatory information

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	Not determined.
Canada	Not determined.
China	All components are listed or exempted.
Europe	All components are listed or exempted.
Switzerland	
Japan	Japan inventory (ENCS): At least one component is not listed. Japan inventory (ISHL): Not determined.
New Zealand	Not determined.
Philippines	Not determined.
Republic of Korea	At least one component is not listed.
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

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

CEPE code 3

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 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
 vPvB = Very Persistent and Very Bioaccumulative

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

SECTION 16: Other information

Classification	Justification
Eye Irrit. 2, H319 Carc. 1B, H350 Repr. 1B, H360F (Fertility) Aquatic Chronic 3, H412	Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	H226 Flammable liquid and vapor. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H350 May cause cancer. H360F May damage fertility. H372 (inhalation) Causes damage to organs through prolonged or repeated exposure if inhaled. H372 Causes damage to organs through prolonged or repeated exposure. H373 (oral) May cause damage to organs through prolonged or repeated exposure if swallowed. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Full text of classifications [CLP/GHS]	Acute Tox. 3, H311 ACUTE TOXICITY (dermal) - Category 3 Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4 Acute Tox. 4, H312 ACUTE TOXICITY (dermal) - Category 4 Acute Tox. 4, H332 ACUTE TOXICITY (inhalation) - Category 4 Aquatic Chronic 1, H410 AQUATIC HAZARD (LONG-TERM) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3 Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1 Carc. 1B, H350 CARCINOGENICITY - Category 1B Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 Flam. Liq. 3, H226 FLAMMABLE LIQUIDS - Category 3 Muta. 2, H341 GERM CELL MUTAGENICITY - Category 2 Repr. 1B, H360F TOXIC TO REPRODUCTION (Fertility) - Category 1B Skin Corr. 1C, H314 SKIN CORROSION/IRRITATION - Category 1C Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1 STOT RE 1, H372 (inhalation) SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (inhalation) - Category 1 STOT RE 1, H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 STOT RE 2, H373 (oral) SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (oral) - Category 2 STOT SE 3, H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3

Date of issue/ Date of revision

17. May 2022

Date of issue/Date of revision

17. May 2022

SECTION 16: Other information**Version** 9**Notice to reader**

The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.

If the product specified in this safety data sheet is blended, mixed or processed with other materials, or subjected to any type of processing, the specifications in this safety data sheet are not applicable to the new material thus produced.