| MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifiers Item No. (manufacturer/supplier): Trade name:

8082

CARDIP® UltraGloss HS ClearCoat 8082

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

Relevant identified uses:

2K clear coat with high gloss finish for the final coating of CARDIP BaseCoats to produce a peelable film coating. The product is intended for professional use.

1.3 Details of the supplier providing the safety data sheet

Manufacturer

Colosol Coatings GmbH
Buchuckerring 36
74906 Bad Rappenau
Germany

Tel.: +49 7066 - 96 59 400
Email: lab@cardip.org

1.4 Emergency

Emergency number:

Germany: +49 (0) 7066 - 96 59 400

SECTION 2: POSSIBLE HAZARDS

2.1 Classification of the substance or mixture

Product definition:

Mixture

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

Flam. Liq. 3, H226
Skin Irrit. 2, H315
Eye Irrit. 2, H319
Skin Sens. 1, H317
STOT SE 3, H336
Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 and its amendments. See Section 16 for the full text of the H statements listed above.

2.2 Label elements Hazard pictograms:

Signal word:

Warning

SECTION 2: POSSIBLE HAZARDS

See Section 11 for more detailed information on health effects and symptoms.

Hazard warnings:

Flammable liquid and vapor. Causes serious eye irritation. Causes skin irritation. May cause allergic skin reactions. May cause drowsiness and dizziness. Harmful to aquatic organisms, with long-lasting effects.

Safety precautions

Pruvention:

Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames, and other sources of ignition. No smoking.

Not applicable.

Reaction: Storage:

Keep in a well-ventilated place. Not

Disposal:

applicable.

Hazardous ingredients:

n-Butyl acetate
Acrylates/methacrylates
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
Methyl-1,2,2,6,6-pentamethyl-4-piperidylsebacate
Polyethylene glycol mono-(3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl) propionate) Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1-oxopropyl] ether

Additional labeling elements

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain hazardous substances, mixtures, and articles

Not applicable.

Special packaging requirements

Containers must be fitted with child-resistant closures.

Not applicable.

Tactile warning label

Not applicable.

2.3 Other hazards

Other hazards not leading to classification

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Product name / Ingredient	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Directory: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1]
Xylene	EC: 215-535-7 CAS: 1330-20-7 List: 601-022-00-9	≥10 - <20	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	[1]
Ethyl 3-ethoxypropionate	REACH #: 01-2119463267-34 EC: 212-112-9 CAS: 763-69-9	≤10	Flam. Liq. 3, H226 EUH066	[1]
Ethylbenzene	EC: 202-849-4 CAS: 100-41-4 List: 601-023-00-4	≤5	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	[1]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 List: 607-195-00-7	≤3	Flam. Liq. 3, H226	[2
Acrylates/methacrylates	-	≤3	Skin Sens. 1, H317	[1
Isopentyl acetate	EC: 204-662-3 CAS: 123-92-2 List: 607-130-00-2	≤1	Flam. Liq. 3, H226 EUH066	[1]
Bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate	EC: 255-437-1 CAS: 41556-26-7	<1	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
2-methylbutyl acetate	EC: 210-843-8 CAS: 624-41-9 Directory: 607-130-00-2	≤0.3	Flam. Liq. 3, H226 EUH066	[1]
Methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate	EC: 280-060-4 CAS: 82919-37-7	≤0.3	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1
			See Section 16 for the full text of the above-mentioned H statement above.	

There are no additional ingredients that, according to the supplier's current knowledge, are classified as hazardous to health or the environment in the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or have a workplace limit value and would therefore have to be listed in this section.

Type:

[1] Substance classified as hazardous to health or the environment

[2] Substance with an occupational 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 similar concern

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

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General

If symptoms occur or are suspected, seek medical attention immediately. Never give anything by mouth to an unconscious person. If unconscious, place in the recovery position and seek medical advice immediately.

Eye contact:

Remove contact lenses, keep eyelids open for at least 10 minutes, rinse thoroughly with clean, fresh water, and seek medical advice immediately.

Inhalation:

Get some fresh air. Keep the person warm and calm. If breathing is not happening or is irregular, or if breathing stops, trained people should start artificial respiration or give oxygen.

Skin contact:

Remove contaminated clothing and shoes. Clean skin thoroughly with soap and water or use an approved skin cleanser. DO NOT use solvents or thinners.

Ingestion:

If swallowed, seek medical advice immediately and show the container or label. Keep the person warm and calm. Do NOT induce vomiting.

Protection of first aiders:

No measures should be taken that involve personal risk or have not been adequately trained. If there is any suspicion that fumes are still present, the rescuer must wear a suitable respirator or self-contained breathing apparatus. It can be dangerous for the first aider to perform mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves when doing so.

4.2 Most important acute and delayed symptoms and effects

No data are available for the mixture itself. The mixture has been assessed according to the conventional method of Regulation (EC) No. 1272/2008 (CLP Regulation) and is classified accordingly as a mixture with toxicological properties. See sections 2 and 3 for details.

Exposure to solvent vapors above the occupational exposure limit may cause health hazards such as irritation of the mucous membranes and respiratory organs and damage to the liver, kidneys, and central nervous system. Signs of this include headache, dizziness, fatigue, muscle weakness, drowsiness, and in severe cases, unconsciousness.
Solvents may cause some of the above effects when absorbed through the skin. Repeated or prolonged contact with the mixture may cause the natural oils to be removed from the skin, leading to non-allergic contact dermatitis and absorption through the skin.
Splashes in the eyes may cause irritation and reversible damage. Ingestion may cause
nausea, diarrhea, and vomiting.
This takes into account, where known, delayed and immediate effects as well as chronic effects of the ingredients through short-term and long-term exposure via oral, inhalation, and dermal exposure routes as well as eye contact.

Contains acrylates/methacrylates, bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate, polyethylene glycol mono- (3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1- oxopropyl] ether. May cause allergic reactions.

4.3 Information on immediate medical attention or special treatment

Information for the doctor:

Treat symptomatically. If large quantities are swallowed or inhaled, contact the poison control center immediately.

Special treatment:

No special treatment.

Toxicological information (see Section 11)

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media Suitable extinguishing media:

Recommended: alcohol-resistant foam, CO_2, powder, water spray. Do not use water jets.

Unsuitable extinguishing media:

5.2 Special hazards arising from the substance or mixture

Hazards arising from the substance or mixture: In case of fire, dense black smoke is produced. Exposure to decomposition products may cause health hazards.

Hazardous thermal decomposition products: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

5.3 Firefighting instructions

Special protective measures for firefighters: Cool closed containers exposed to fire with water. Do not allow extinguishing water to enter drains or waterways.

Special protective equipment for firefighting: Firefighters should always wear breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

Personnel not trained for emergencies: Keep away from sources of ignition and ventilate the area well. Avoid inhaling vapors or mist. Observe the safety precautions in sections 7 and 8.

Emergency response teams: If special clothing is required to deal with the spill, refer to Section 8 for information on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

6.2 Environmental precautions:

Do not allow to enter the sewage system. In the event of contamination of watercourses, sewage systems or penetration into the ground, notify the relevant authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning:

Contain spilled material with non-combustible absorbent material (e.g., sand, earth, vermiculite, diatomaceous earth) and place in a container designated for disposal in accordance with local regulations (see Section 13). Clean with detergent if possible. Avoid the use of solvents.

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 further information on waste disposal.

SECTION 7: HANDLING AND STORAGE

The information in this section contains general advice and guidance. The list of identified uses in Section 1 should be consulted for any application-specific information in the exposure scenario(s).

7.1 Precautions for safe handling

Avoid the formation of flammable and explosive solvent vapors in the air and do not exceed the occupational exposure limits.
Only use the product in areas where there are no open flames or other sources of ignition. Electrical equipment must be protected in accordance with the relevant standards.
The mixture may become electrostatically charged: always use grounding when transferring from one container to another.
Workers should wear antistatic footwear and clothing, and floors should be conductive. Keep away from heat, sparks, and flames. Do not use spark-producing tools.
Avoid contact with eyes and skin. Avoid inhaling dust, particles, spray, or mist generated by the use of this mixture. Do not inhale grinding dust.
Do not eat, drink, or smoke in areas where this substance is used, stored, or processed.
Wear appropriate protective equipment (see Section 8). Never
empty under pressure. The container is not a pressure vessel.
Always store in containers made of the same material as the original container. Follow legal protection and safety regulations.
Do not allow to enter the sewage system.

Information on fire and explosion protection

Vapors are heavier than air and can spread along the floor. Vapors can form an explosive mixture with air.

If people are present in the spray booth during spraying, regardless of whether they are spraying themselves or not, exposure to aerosols and solvent vapors is to be expected. Under such conditions, respiratory protection should be worn during spraying until the aerosol and solvent vapor concentrations have fallen below the air limit values.

7.2 Conditions for safe storage, taking into account incompatibilities

Store in accordance with local regulations.

Information on joint storage

Keep away from: oxidizing agents, strong alkalis, strong acids.

Further information on storage conditions

Follow the instructions on the label. Store in a dry, cool, well-ventilated place. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Carefully reseal containers that have been opened and store upright to prevent leakage.

7.3 Specific end-use

recommendations: Not available.

Specific solutions for the industrial sector: Not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

The information in this section contains general advice and guidance. The information provided is based on typical foreseeable uses of the product. When handling large quantities or other uses that may significantly increase worker exposure or release to the environment, additional measures may be necessary.

8.1 Parameters to be monitored

Workplace limits

Product/ingredient name	Exposure limits
n-Butyl acetate	**TRGS900 AGW (Germany, 11/2015).** Average layer value: 300 mg/m 8 hours. Average value: 62 ppm 8 hours. Short-term value: 600 mg/m³ 15 minutes. Short-term value: 124 ppm 15 minutes.
Xylol	**TRGS900 AGW (Germany, 11/2015). Absorbed through the skin.** Short-term value: 880 mg/m³ 15 minutes. Short-term value: 200 ppm for 15 minutes. Average value: 440 mg/m³ 8 hours. Time-weighted average: 100 ppm 8 hours.
Ethyl 3-ethoxypropionate	**TRGS900 AGW (Germany, 11/2015). Absorbed through the skin.** Short-term value: 610 mg/m³ 15 minutes. Short-term value: 100 ppm 15 minutes. Time-weighted average: 610 mg/m³ 8 hours. Time-weighted average: 100 ppm 8 hours.
Ethylbenzene	**TRGS900 AGW (Germany, 11/2015). Absorbed through the skin.** Short-term value: 176 mg/m³ 15 minutes. Short-term value: 40 ppm 15 minutes. Average value: 88 mg/m³ 8 hours. Time-weighted average: 20 ppm 8 hours.
2-methoxy-1-methylethyl acetate	**TRGS900 AGW (Germany, 11/2015).** Short-term value: 270 mg/m³ 15 minutes. Short-term value: 50 ppm 15 minutes. Average layer value: 270 mg/m³ 8 hours. Time-weighted average: 50 ppm 8 hours.
Isopentyl acetate	**TRGS900 AGW (Germany, 11/2015).** Short-term value: 270 mg/m³ 15 minutes. Short-term value: 50 ppm 15 minutes. Average shift value: 270 mg/m³ 8 hours. Time-weighted average: 50 ppm 8 hours.
2-methylbutyl acetate	**TRGS900 AGW (Germany, 11/2015).** Short-term value: 270 mg/m³ 15 minutes. Short-term value: 50 ppm for 15 minutes. Average value: 270 mg/m³ 8 hours. Average value: 50 ppm 8 hours.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, atmospheric (workplace-related) or biological monitoring may be necessary to determine the effectiveness of ventilation or other control measures and/or the need for respiratory protective equipment. Reference should be made to review standards, such as the following: European standard DIN EN 689 (Workplace atmospheres -Guidance on the determination of inhalable exposure to chemical agents for comparison with limit values and measurement strategy) European standard DIN EN 14042 (Workplace atmospheres - Guidelines for the application and use of procedures and methods for the determination of chemical and biological agents) European standard DIN 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 determining hazardous substances is also required.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

DNELs/DMELs: No DNELs/DMELs values are available. No

PNECs: PNECs values are available.

8.2 Exposure control and monitoring

Appropriate engineering controls: Ensure adequate ventilation. Where reasonably practicable, this can be achieved by local exhaust ventilation and good general ventilation. If this is not sufficient to keep the particle and solvent vapor concentrations below the workplace limits, suitable respiratory protection must be worn.

Individual protection measures

Hygiene measures: Wash your hands, forearms, and face thoroughly after handling chemical products and at the end of the workday, as well as before eating, smoking, and using the restroom. Use appropriate methods to dispose of contaminated clothing. Do not wear contaminated work clothing outside the workplace. Wash contaminated clothing before reuse. Ensure that eye wash stations and safety showers are available in the vicinity of the work area.

Wear safety goggles to protect against splashes.

Eye/face protection:

Skin protection

Hand protection:

Gloves: There is no single glove material or combination of materials that can provide unlimited resistance to individual chemicals or combinations of chemicals. The breakthrough time must be greater than the service life of the product. The instructions and information provided by the glove manufacturer regarding use, storage, maintenance, and replacement must be followed. Gloves must be replaced regularly and at any sign of contamination of the glove material.
Always ensure that the gloves are free from defects and are stored and used correctly. The performance or effectiveness of the gloves may be reduced by physical and chemical damage and poor maintenance.
Use a skin protection cream suitable for all exposed parts of the body; do not use after exposure has occurred.

For prolonged or repeated use, wear the following types of gloves: Not recommended:
PVC
Can be used: Nitrile rubber, neoprene, butyl rubber
The recommendations on the types of gloves to be used when handling this product are based on information from the following source:
The user must ensure that the type of gloves selected for handling this product is the most suitable, taking into account the specific conditions of use and the risk assessment of the user.

Body protection: Personnel should wear antistatic clothing made of natural fibers
or heat-resistant synthetic fibers.

Other skin protection: Select suitable footwear and additional skin protection measures based on the task to be performed and the associated hazards, and have them approved by a specialist in advance.

SECTION 8: EXPOSURE LIMITS AND MONITORING/PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection:

If workers are exposed to concentrations above the limit value, they must wear suitable and approved respiratory protective equipment. Dry grinding, flame cutting, and/or welding of the removed paint may generate hazardous dust or fumes. Wet grinding should be used if possible. If exposure cannot be adequately prevented by extraction systems, appropriate respiratory protective equipment must be worn.

If workers could be exposed to concentrations above the exposure limit, they must use a respirator that complies with EN 140, fitted with a filter suitable for both particulates and vapors, in accordance with EN 14387, with an assigned protection factor of at least 10 (e.g., A2P3). Selection of any respiratory protective equipment should ensure that it is adequate to reduce exposure to protect the worker's health and is suitable for the wearer, task, and environment, including consideration of the facial features of the wearer.
and environment, including consideration of the facial features of the wearer.

Limitation and monitoring of environmental exposure:

Do not allow to enter the sewage system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: Color:	Liquid.
Odor: Odor threshold:	Product-specific information Characteristic.
pH value: Melting	Not available.
point/freezing point: Initial	Acidic.
boiling point and boiling range:	Not available.
	126° C
Flash point: Evaporation rate:	Closed cup: 24 °° C Not available.
Flammability (solid, gaseous):	Not available.
Upper/lower flammability or explosive limits:	Largest known range: Lower value: 1.05% Upper value: 9.8% (ethyl 3-ethoxypropionate)
Vapor pressure: Vapor	Not available.
density:	Highest known value: 5 (air = 1) (ethyl-3-ethoxypropionate). Weighted average: 4.03 (air = 1) 0.988
Relative density:	Not available.
Solubility(ies)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Kinematic (room temperature): 0.4 $cm^{Å}$ /s
Viscosity:	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Explosive properties: Not available.

Oxidizing properties: Not available.

9.2 Other

No further information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No specific data on reactivity is available for this product or its ingredients. Stable under recommended storage and handling conditions (see Section 7).

10.2 Chemical stability: No dangerous reactions occur under normal storage conditions and normal use.

10.3 Possibility of hazardous reactions: May form hazardous decomposition products when exposed to high temperatures.

10.4 Conditions to avoid: Keep away from the following substances to avoid strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

10.5 Incompatible materials: Under normal storage and use conditions, no hazardous decomposition products should be formed.

10.6 Hazardous decomposition products:

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No data are available for the mixture itself. The mixture has been assessed according to the conventional method of Regulation (EC) No. 1272/2008 (CLP Regulation) and is classified accordingly as a mixture with toxicological properties. See sections 2 and 3 for details.

Exposure to solvent vapors above the occupational exposure limit may cause health hazards such as irritation of the mucous membranes and respiratory organs and damage to the liver, kidneys, and central nervous system. Signs of this include headache, dizziness, fatigue, muscle weakness, drowsiness, and in severe cases, unconsciousness.
Solvents may cause some of the above effects when absorbed through the skin. Repeated or prolonged contact with the mixture may cause the natural oils to be removed from the skin, leading to non-allergic contact dermatitis and absorption through the skin.
Splashes in the eyes may cause irritation and reversible damage. Ingestion may cause
nausea, diarrhea, and vomiting.
This takes into account, where known, delayed and immediate effects as well as chronic effects of the ingredients through short-term and long-term exposure via oral, inhalation, and dermal exposure routes as well as eye contact.

Contains acrylates/methacrylates, bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate, methyl-1,2,2,6,6-pentamethyl-4-piperidyl sebacate, polyethylene glycol mono- (3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionate), Polyethylene glycol di[3-[3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl]-1- oxopropyl] ether. May cause allergic reactions.

SECTION 11: TOXICOLOGICAL INFORMATION

Product name / Ingredient	Result	Species	Dose	Exposure
n-Butyl acetate	LC50 inhalation vapor LD50 dermal LD50 Oral	Rat Rabbit Rat	390 ppm >17600 mg/kg 10768 mg/kg	4 hours - -
Xylol	LD50 Oral	Rat	4300 mg/kg	-
Ethyl 3-ethoxypropionate	LD50 Oral	Rat	3200 mg/kg	-
Ethylbenzene	LD50 dermal LD50 oral	Rabbit Rat	>5000 mg/kg 3500 mg/kg	-
2-methoxy-1-methylethyl acetate	LD50 dermal LD50 oral	Rabbit Rat	>5 g/kg 8532 mg/kg	-
Isopentyl acetate	LD50 dermal LD50 oral	Rabbit Rat	>5 g/kg 16600 mg/kg	-

Conclusion / Summary: Not available.

Protection against acute toxicity

Route of exposure	ATE value
Dermal Inhalation (Dull)	7096 mg/kg 57.48 mg/l

Irritation/corrosion

Product name / Ingredient	Result	Species	Score	Exposure	Observation
n-butyl acetate	Eyes - Mildly irritating Skin - Mildly irritating	Rabbit Rabbit	- -	100 milligrams 24 hours 500 milligrams	- -
Xylene	Eyes - Mild irritant Eyes - Strong irritant Skin - Mild irritant Skin - Slightly irritating	Rabbit Rabbit Rat Rabbit	- - - -	87 milligrams 24 hours 5 milligrams 8 hours 60 microliters 24 hours 500 milligrams	- - - -
Ethyl 3-ethoxypropionate	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
Ethylbenzene	Eyes - Strong irritant Skin - Mild irritant	Rabbit Rabbit	- -	500 milligrams 24 hours 15 milligrams	- -

Conclusion / Summary: Not available.

Sensitization

Conclusion / Summary: Not available.

Mutagenicity

Conclusion / Summary: Not available.

SECTION 11: TOXICOLOGICAL INFORMATION

Carcinogenicity

Conclusion/summary: Not available.

Reproductive toxicity

Conclusion/summary: Not available.

Teratogenicity

Conclusion / Summary: Not available.

Specific target organ toxicity after single exposure

Name of product/ingredient	Category	Route of exposure	Target organs
n-Butyl acetate	Category	Not applicable.	Narcotic effects
Xylol	Category	Not applicable.	Respiratory tract irritation

Specific target organ toxicity after repeated exposure

Product name / Ingredient	Category	Route of exposure	Target organs
Ethylbenzene	Category	Not determined	Hearing organs

Aspiration hazard

Xylene: ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD -

Ethylbenzene: Category 1

Other information: Not available.

SECTION 12: ENVIRONMENTAL INFORMATION

12.1 Toxicity

No data available for the mixture itself. Do not allow to enter the sewage system.

The mixture has been assessed according to the summation method of Regulation (EC) No. 1272/2008 (CLP Regulation) and is classified accordingly as a mixture with ecotoxicological properties. For details, see Articles 2 and 3.

Product name / Ingredient	Result	Species	Exposure
n-Butyl acetate	Acute LC50 62000 µg/l	Fish - Danio rerio	96 hours
Xylene	Acute LC50 8500 µg/l seawater Acute LC50 13400 µg/l Fresh water	Crustaceans - Palaemonetes pugio Fish - Pimephales promelas	48 96 hours
Ethylbenzene	Acute EC50 4600 µg/l fresh water Acute EC50 3600 µg/l fresh water Acute EC50 2930 to 4400 µg/l fresh water Acute LC50 40000 µg/l seawater Acute LC50 4200 µg/l fresh water	Algae - Pseudokirchneriella subcapitata Algae - Pseudokirchneriella subcapitata Daphnia - Daphnia magna - Newborn Crustaceans - Cancer magister - Zoea Fish - Oncorhynchus mykiss	72 hours 96 hours 48 hours 48 hours 96 hours

Conclusion / Summary: Not available.

SECTION 12: ENVIRONMENTAL INFORMATION

12.2 Persistence and degradability

Conclusion/summary: Not available.

12.3 Bioaccumulation potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
n-butyl acetate	2	-	low
Xylene	3.1	8.1 to 25.9	low
Ethyl 3-ethoxypropionate	1.47	-	low
Ethylbenzene	3.6	-	low
2-methoxy-1-methylethyl acetate	1.2	-	low
Isopentyl acetate	2.25	-	low

12.4 Mobility in soil

Distribution coefficient soil/water (K_{oc}): Not available.

Ethylbenzene: Not available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other harmful effects: No special effects or hazards known.

SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains general advice and instructions. The list of identified uses in Section 1 should be consulted for any application-specific information in the exposure scenario(s).

13.1 Waste treatment procedures

Disposal methods: Waste generation should be avoided or minimized wherever possible. This product, its solutions, and by-products must be disposed of at all times in accordance with environmental protection requirements and waste disposal laws, as well as the requirements of local authorities. Dispose of surpluses and products not suitable for recycling through a recognized waste disposal company. Do not discharge waste untreated into the sewage system unless all applicable regulations of the authorities are complied with.

Hazardous waste: To the best of the supplier's knowledge, this product is not considered hazardous waste within the meaning of EU Directive 2008/98/EC.

Disposal instructions: Do not allow to enter the sewage system. All relevant federal, state, and local regulations must be observed when disposing of this product.
If this product is mixed with other waste materials, the original waste product code may no longer apply and a suitable code must be assigned.
For further information, please contact your local waste disposal authority.

SECTION 13: DISPOSAL INFORMATION

European Waste Catalogue (EWC): Waste codes according to the European Waste Catalogue:

Waste code	Waste description
08 01 11	Paint and varnish waste containing organic solvents or other dangerous substances

Packaging Disposal methods:

Waste generation should be avoided or minimized where possible. Packaging waste should be recycled. Incineration or landfill should only be considered if recycling is not feasible.

Disposal instructions:

Using the information provided in this safety data sheet, advice must be obtained from the competent waste authorities regarding the classification of empty containers. Empty containers must be scrapped or reconditioned. Containers contaminated with the product must be disposed of in accordance with local and national regulations.

Packaging type	European Waste Catalogue (EWC)
CEPE guidelines	15 01 10 Packaging containing residues of hazardous substances or contaminated by hazardous substances

Special precautions:

Containers and receptacles must be disposed of in a safe manner. Take care when handling empty containers that have not been cleaned or rinsed. Empty containers and liners may contain product residues. Vapors from product residues can form a highly flammable or explosive atmosphere inside the container. Do not cut or grind used containers before they have been thoroughly cleaned inside. Avoid the spread and runoff of released material and contact with soil, water, drains, and sewage systems.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	UN1263	UN1263	UN1263
Proper UN shipping name	PAINT	PAINT	PAINT
Transport hazard classes	3 	3 	3 
Packaging group	III	III	III
Environmental hazards	No.	No.	No.
Additional information	Special regulations 640 (E) Tunnel code (D/E)	F-E, _S-E_	-

14.6 Special precautions for the user:

Transport within the factory premises: transport only in closed containers that are upright and secure. Persons transporting the product must be instructed in the correct behavior in the event of accidents, leakage, or spillage.

SECTION 14: TRANSPORT INFORMATION

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1 Regulations on safety, health, and environmental protection/specific legal provisions for the substance or mixture

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

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market, and use of certain hazardous substances, mixtures, and articles

Not applicable.

Other EU regulations

VOC: The provisions of Directive 2004/42/EC on VOCs apply to this product. For further information, see the label and/or technical data sheet.

VOC for ready-to-use mixtures: Not applicable.

Ozone-depleting substances (1005/2009/EU)

Not listed.

Prior informed consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product can be used in calculations to determine whether a site falls under the Seveso Directive on the control of major accident hazards involving dangerous substances.

National regulations

Industrial use: The information in this safety data sheet cannot be used as a workplace risk assessment, which must be prepared in accordance with occupational safety regulations. The statutory occupational safety measures must be observed when using the product.

Storage class (TRGS 510): 3

Hazardous Substances Ordinance: Water hazard class: Technical Instructions for Air: Applicable. Category: 6 Flammable. 1

Appendix No. 4

TA-Luft Number 5.2.5: 33.7%
TA-Luft Class III - Number 5.2.2: 19.2% TA-Luft Class I - Number 5.2.5: 0.6%

SECTION 15: REGULATORY INFORMATION

International regulations

Chemical Weapons Convention, List I, II & III chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in the Form of International Shipments (PIC)

Not listed.

UNECE Aarhus Protocol on Persistent Organic Pollutants (POPs) and Heavy Metals

Not listed.

15.2 Substance safety assessment No substance safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

CEPE code: 1

Indicates information that has changed since the last version.

Abbreviations and acronyms:

ATE= Acute toxicity threshold
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL = Derived minimal effect limit DNEL = Derived no-effect limit
=EUH statement = CLP-specific hazard statement
PBT = Persistent, bioaccumulative, and toxic PNEC = Protected no-effect concentration RRN = REACH registration number
vPvB= Very persistent and very bioaccumulative

Procedure for deriving the classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Classification	Justification
Flam. Liq. 3, H226	Based on test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

H225	Liquid and vapor highly flammable.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters the respiratory tract.
H312	Harmful in contact with skin.

SECTION 16: OTHER INFORMATION

Full text of abbreviated H statements

H315	Causes skin irritation.
H317	May cause allergic skin reactions.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness and dizziness.
H373 (hearing organs)	May cause damage to organs through prolonged or repeated exposure. (hearing organs)
H400	Very toxic to aquatic organisms.
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. 4, H312	ACUTE TOXICITY (Dermal) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM HAZARDOUS TO THE WATER ENVIRONMENT - Category 1
Aquatic Chronic 3, H412	LONG-TERM HAZARDOUS TO THE AQUATIC ENVIRONMENT - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
H373 (hearing organs)	Repeated exposure may cause skin to become dry or cracked.
EUH066	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Eye Irrit. 2, H319	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 3
Flam. Liq. 3, H226	SKIN CORROSION/IRRITATION - Category 2
Skin Irrit. 2, H315	SKIN SENSITIZATION - Category 1
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT RE 2, H373 (hearing organs)	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category

SECTION 16: OTHER INFORMATION

16.1 Legal disclaimer

This data sheet is based on intensive development work and many years of practical experience. Its contents do not constitute a contractual legal relationship but serve as a guideline.

No guarantee is given for accuracy and completeness. The supplier is not liable for any damage caused by the use of or contact with the product. The processor/purchaser is not released from the obligation to check the product for suitability for the intended application. In addition, our General Terms and Conditions apply.

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 and national and EU regulations. The product must not be used for any purpose other than that specified in Chapter 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 regulations and laws. The information in this safety data sheet describes the safety requirements of our product and does not constitute a guarantee of product properties.