

MATERIAL SAFETY DATA SHEET

SECTION 1: DESIGNATION OF THE SUBSTANCE RESPECTIVELY OF THE MIXTURE AND THE COMPANY

1.1 Product identifiers Article

no. (manufacturer/supplier): 7701850
 Sales designation: CARDIP Thinner Slow 850

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

Relevant identified uses: CARDIP Thinner Slow 850 is a long thinner for the CARDIP 2K HS clear coats UltraGloss 8080, as well as Matte 8091 of the CARDIP spray film system. The thinner causes a longer open time of the clear coats and thus absorbs overspray better. The product is intended for commercial use.

1.3 Details of the supplier providing the safety data sheet

Manufacturer: Colosol Coatings GmbH Buchäckerring 36
 74906 Bad Rappenau
 Germany
 Tel.: +49 7066 - 96 59 400
 E-mail: lab@cardip.org

1.4 Emergency number

Emergency number: 24 hours emergency number (CHEMTREC) Switzerland: +(41) 435082011
 Germany: +(49) 6964 - 3508409 / 0800-1817059 Belgium: +(32) 28083237
 Austria: +(43) 13649237 Luxembourg: +(352) 20202416

SECTION 2: POTENTIAL 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
 STOT SE 3, H336 Asp. Tox. 1, H304
 Aquatic Chronic 3, H412

2.2 Label elements Hazard

pictograms:



Signal word: Danger

The product is classified as dangerous according to Regulation (EC) 1272/2008 and its amendments. See section 16 for the full text of the H-phrases given above.
 For more detailed information on health effects and symptoms, see Section 11.

SECTION 2: POTENTIAL HAZARDS

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

Hazard statements:

Flammable liquid and vapors. Causes severe eye irritation.
Causes skin irritation.
May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.
Harmful to aquatic organisms, with long lasting effects.

Safety instructions

Prevention:

Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.

Reaction: Storage:

Not applicable.

Disposal:

Store in a well-ventilated place. Not

Hazardous ingredients:

applicable.

n-Butyl acetate
Xylene

Supplementary marking elements

Not applicable.

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

Not applicable.

Special packaging requirements

Containers to be equipped with child-resistant closures

Not applicable.

Tactile warning

Not applicable.

2.3 Other hazards

Other hazards that do not lead to classification

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Name of the product / ingredient	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
2-butoxyethyl acetate	EC: 203-933-3 CAS: 112-07-2 Index: 607-038-00-2	25 - 35	Acute Tox. 4, H312 Acute Tox. 4, H332	[1] [2]
n-Butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	10 - 25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[1]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	10 - 25	Flam. Liq. 3, H226	[2]
Xylene	EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	10 - 15	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] [2]
4-hydroxy-4-methylpentan-2-one	EC: 204-626-7 CAS: 123-42-2 Index: 603-016-00-1	10	Flam. Liq. 3, H226 Eye Irrit. 2, H319	[1]
Ethylbenzene	REACH #: 01-2119892111-44 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	3.5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 2, H411	[1] [2]
Toluene	EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	0.3	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d (Unborn child) STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304	[1] [2]
			See section 16 for the full text of the H-phrases indicated.	

There are no additional ingredients present which, to the best of the supplier's current knowledge, are classified as harmful to health or the environment at the applicable concentrations, are PBT or vPvB substances or substances of equivalent concern, or which have an occupational exposure limit and would therefore need to be reported 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] Similar substance of concern
- Occupational exposure limits, when available, are given in Section 8.

SECTION 4: FIRST AID MEASURES

4.1 Description of the first aid measures

General:	If symptoms occur or are suspected, consult a physician. Never administer anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice immediately.
Eye contact:	Remove contact lenses, keep eyelids open for at least 10 minutes and flush copiously with clean, fresh water and seek immediate medical advice.
Inhalation:	Remove to fresh air. Keep person warm and calm. If breathing is absent or irregular, or if respiratory arrest occurs, have trained personnel initiate artificial respiration or oxygen administration.
Skin contact:	Remove contaminated clothing and shoes. Clean skin thoroughly with soap and water or use approved skin cleanser. DO NOT use solvents or thinners.
Ingestion:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and calm. Do NOT induce vomiting.
Protection of first responders:	No action should be taken that involves personal risk or has not been adequately trained. If vapors are still suspected to be present, the rescuer must wear a suitable respirator or self-contained breathing apparatus. It may be dangerous for the person providing first aid 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 symptoms and effects, both acute and delayed

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 section 2 and 3 for details.

Exposure to solvent vapors above the occupational exposure limit may cause adverse health effects, such as irritation of the mucous membranes and respiratory system and damage to the liver, kidneys and central nervous system. Signs 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 withdrawal of the natural fat from the skin and lead 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 delayed and immediate effects, if known, as well as chronic effects of the constituents, through short-term and long-term exposure via oral, inhalation, and dermal routes of exposure, and eye contact.

May cause allergic reactions.

4.3 Indications for immediate medical help or special treatment

Notes for the physician:	Treat symptomatically. In case of ingestion or inhalation of large quantities, contact the Poison Control Center specialist immediately.
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Special treatments:	No special treatment.
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Toxicological information (see section 11)

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing

media Suitable

Recommended: alcohol-resistant foam, CO₂, powder, water

extinguishing media:

spray. Do not use water spray.

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 damage to health.

Hazardous thermal decomposition products:

Decay products may include the following materials: Carbon monoxide, carbon dioxide, smoke, nitrogen oxides.

5.3 Advice for fire fighting

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 fire fighting:

Appropriate respiratory protective equipment may be required.

SECTION 6: MEASURES IN CASE OF ACCIDENTAL RELEASE

6.1 Personal precautions, protective equipment and procedures to be used in case of emergency

Staff not trained for emergencies:

Keep ignition sources away and ventilate room well. Avoid inhalation of vapor or mist. Observe protective regulations in sections 7 and 8.

Task forces:

If special clothing is required to handle the spill, refer to Section 8 on suitable and unsuitable materials. See also information in "For persons who are not rescue workers".

6.2 Environmental protection measures:

Do not allow to enter sewage system. In the event of contamination of water, sewage pipes or penetration into the ground, inform the relevant authorities in accordance with local laws.

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

6.3 Methods and material for retention and cleaning:

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 treatment.

6.4 Reference to other sections:

SECTION 7: HANDLING AND STORAGE

The information in this section provides 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 Protective measures for safe handling

Avoid the formation of flammable and explosive solvent vapors in the air and the exceeding of workplace limits.

Use the product only in places where there are no open fires or other sources of ignition. Protect electrical equipment according to the appropriate standards.

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 inhalation of dust, particles, spray or mist generated by the application of this mixture. Do not inhale grinding dust.

Eating, drinking and smoking shall be prohibited in areas where this substance is used, stored or processed.

Put on suitable protective equipment (see section 8).

Never empty under pressure. 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 sewage system.

Information about fire and explosion protection

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

If persons, whether or not they are spray painting themselves, are inside the spray booth during painting, exposure to aerosols and solvent vapors is likely. In such conditions, respiratory protection should be worn during spray painting until aerosol and solvent vapor concentrations have fallen below airborne limits.

7.2 Conditions for safe storage taking into account incompatibilities

Store in accordance with local regulations.

Notes on joint storage

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

More information about storage conditions

Follow the instructions on the label. Store in a dry, cool place with good ventilation. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorized access. Containers which have been opened should be carefully closed and stored 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. Information provided is based on typical anticipated uses of the product. Additional measures may be required for handling large quantities or other uses that may significantly increase worker exposure or release to the environment.

8.1 Parameters to be monitored

Occupational exposure limits

Name of the product / ingredient	Exposure limits
2-Butoxyethyl acetate	TRGS900 AGW (Germany, 11/2015). Shift average: 20 ppm 8 hours. Shift average: 133 mg/m ³ 8 hours. Short-term value: 50 ppm 15 minutes. Short-term value: 333 mg/m ³ 15 minutes.
2-methoxy-1-methylethyl acetate	TRGS900 AGW (Germany, 11/2015). Absorbed through the skin. Short-term value: 550 mg/m ³ 15 minutes. Short-term value: 100 ppm 15 minutes. Shift average: 275 mg/m ³ 8 hours. Shift average: 50 ppm 8 hours.
Xylene	TRGS900 AGW (Germany, 11/2015). Absorbed through the skin. Short-term value: 442 mg/m ³ 15 minutes. Short-term value: 100 ppm 15 minutes. Shift average: 221 mg/m ³ 8 hours. Shift average: 50 ppm 8 hours.
Ethylbenzene	TRGS900 AGW (Germany, 11/2015). Absorbed through the skin. Short-term value: 884 mg/m ³ 15 minutes. Short-term value: 200 ppm 15 minutes. Shift average: 442 mg/m ³ 8 hours. Shift average: 100 ppm 8 hours.
Toluene	TRGS900 AGW (Germany, 11/2015). Short-term value: 384 mg/m ³ 15 minutes. Short-term value: 100 ppm 15 minutes. Shift average: 192 mg/m ³ 8 hours. Shift average: 50 ppm 8 hours.

Recommended monitoring procedures:

If this product contains ingredients with exposure limits, personal, atmospheric (based on the workplace), or biological monitoring may be required to determine the effectiveness of ventilation or other control measures and/or the need for the use of respirators. Reference should be made to verification standards, such as the following: European Standard DIN EN 689 (Workplace atmospheres - Guidance for the determination of inhalation exposure to chemical agents for comparison with limit values and measurement strategy) European Standard DIN EN 14042 (Workplace atmospheres - Guidance for the application and use of methods and equipment for the determination of chemical and biological agents) European Standard DIN EN 482 (Workplace atmospheres - General requirements for the performance of methods for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of 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 controls and monitoring

Appropriate engineering control devices: Provide adequate ventilation. Where reasonably practicable, this can be accomplished by local exhaust ventilation and good general exhaust ventilation. If this is not sufficient to keep particle and solvent vapor concentrations below workplace limits, appropriate respiratory protection must be worn.

Individual protective measures

Hygienic measures: Wash hands, forearms, and face thoroughly after handling chemical products and at the end of the workday, as well as before eating, smoking, and visiting the restroom. Select appropriate methods for removing contaminated clothing. Do not wear contaminated work clothing outside the workplace. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are available near the work area.

Wear safety goggles to protect against splashes.

Eye/face protection:

Skin protection
Hand protection: There is no single glove material or combination of materials that can give unlimited resistance to individual chemicals or combinations of chemicals. The breakthrough time must be greater than the useful life of the product. 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 damage to the glove material. Always ensure that the gloves are free from defects and are stored and used correctly.
Glove performance or effectiveness may be reduced by physical and chemical damage and poor maintenance. Use appropriate skin protection ointment on all uncovered body parts; do not use after an exposure has occurred.

Use the following types of gloves for prolonged or repeated handling: Recommended: Film
Can be used: Neoprene, butyl rubber
Not recommended: Fluorocarbon rubber, nitrile rubber, PVC.

Gloves: 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 he/she selects the type of glove for handling this product that is most suitable, taking into account the specific conditions of use according to the user's risk assessment.

Personnel should wear antistatic clothing made of natural fiber or heat-resistant synthetic fiber.

Select appropriate footwear and additional skin protection measures based on the task to be performed and the hazards involved, and obtain prior approval from a professional.

Body Protection:

Other skin protection:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection:

If workers are exposed to concentrations above the limit, they must wear appropriate and approved respirators. Dry sanding, flame cutting and/or welding of cured paint may generate hazardous dust or fumes. Wet sanding if possible. If exposure cannot be adequately prevented by exhaust equipment, appropriate respirators must be worn.

If workers could be exposed to concentrations above the exposure limit they must use a respirator to EN 140, fitted with a filter suitable for both particulates and vapours, to 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.

Environmental exposure controls:

Do not allow to enter sewage system.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state: color:	Fluid.
Odor: Odor threshold:	Product Specific Information Characteristic.
pH value: Melting point/Freezing point: Initial boiling point and boiling range:	Not available. Sour. Not available. 126 °C
Flash point: Evaporation rate:	25 °C c.c.
Flammability (solid, gas):	Not available.
Upper/lower flammability or explosion limits:	Not available. Largest known range: Lower value: 1.4% Upper value: 7.6% (n-butyl acetate)
Vapor pressure: Vapor density:	Not available.
Relative density:	Highest known value: 5.5 (air = 1) (2-butoxyethyl acetate). Weighted average: 4.59 (air = 1) 0.917
Solubility(s)	Not available.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Kinematic (room temperature): 0.11 cm ² /s, Kinematic (40 C): 0.02 cm ² /s

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Explosive properties: Not available.

Oxidizing properties: Not available.

9.2 Other information

No further information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: No specific data regarding reactivity are available for this product or its ingredients. Stable under

10.2 Chemical stability: recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions: Under normal storage conditions and use, no hazardous reactions will occur.

May form hazardous decomposition products on exposure to high temperatures.

10.4 Conditions to avoid:

Keep away from the following substances to avoid strong exothermic reactions:

10.5 Incompatible materials:

Oxidizing agents, strong alkalis, strong acids.

10.6 Hazardous decomposition products:

Under normal conditions of storage and use, no hazardous decomposition products should be formed.

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 section 2 and 3 for details.

Exposure to solvent vapors above the occupational exposure limit may cause adverse health effects, such as irritation of the mucous membranes and respiratory system and damage to the liver, kidneys and central nervous system. Signs 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 withdrawal of the natural fat from the skin and lead 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 delayed and immediate effects, if known, as well as chronic effects of the constituents, through short-term and long-term exposure via oral, inhalation, and dermal routes of exposure, and eye contact.

SECTION 11: TOXICOLOGICAL INFORMATION

Name of the product / ingredient	Result	Species	Dose	Exposure
2-Butoxyethyl acetate	LD50 Dermal LD50 Oral	Rabbit Rat	1500 mg/kg 2400 mg/kg	- -
N-butyl acetate	LC50 Inhalation Vapor LD50 Dermal LD50 Oral	Rat Rabbit Rat	390 ppm >17600 mg/kg 10768 mg/kg	4 hours - -
2-methoxy-1-methylethyl acetate	LD50 Dermal LD50 Oral	Rabbit Rat	>5 g/kg 8532 mg/kg	- -
Xylene	LD50 Oral	Rat	4300 mg/kg	-
4-hydroxy-4-methylpentan-2-one	LD50 Dermal LD50 Oral	Rabbit Rat	13500 mg/kg 2520 mg/kg	- -
Ethylbenzene	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 3500 mg/kg	- -

Conclusion/Summary: Not available.

Acute toxicity estimates

Impact path	ATE value
Dermal	2632.4 mg/kg
Inhalation (vapors)	20.04 mg/l

Irritation/corrosion

Name of the product / ingredient	Result	Species	Score	Exposure	Observation
2-Butoxyethyl acetate	Eyes - Mild irritant Skin - Mild irritant	Rabbit Rabbit	- -	24 hours 500 milligrams	- -
N-butyl acetate	Eyes - Moderate irritant Skin - Moderate irritant	Rabbit Rabbit	- -	100 milligram 24 hours 500 milligram	- -
Xylene	Eyes - Mild irritant	Rabbit	-	87 milligram	-
	Eyes - Strong irritant	Rabbit	-	24 hours	-
	Skin - Mild irritant	Rat Rabbit	-	5 milligram 8 hours	-
	Skin - Moderate irritant	Rabbit	-	60 microliter 24 hours 500 milligram 100 percent	-
4-hydroxy-4-methylpentan-2-one	Eyes - Severe irritation	Rabbit	-	20 milligram	-
	Eyes - Severe irritation	Rabbit	-	24 hours	-
	Skin - Mild irritant	Rabbit	-	100 microliter 500 milligram	-
Ethylbenzene	Eyes - Strong irritant	Rabbit	-	500 milligram	-
	Skin - Mild irritant	Rabbit	-	24 hours 15 milligram	-
Toluene	Eyes - Mild irritant	Rabbit	-	0,5 minutes 100 milligram	-
	Eyes - Mild irritant	Rabbit	-	870 microgram	-
	Eyes - Severe irritation	Rabbit	-	24 hours	-
	Skin - Mild irritant	Pig	-	2 milligram 24 hours	-
	Skin - Mild irritant	Rabbit	-	250 microliter 435 milligram	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligram 500 milligram	-

Conclusion/Summary: Not available.

CARDIP® THINNER SLOW 850



SAFETY DATA SHEET - Complies with Regulation (EC) No 1907 | MATERIAL SAFETY DATA SHEET - acc. 1907/2006/EC, Art. 31

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 for single exposure

Name of the product / ingredient	Category	Expositiosweg	Target organs
n-Butyl acetate	Category 3	Not applicable.	Narcotic effects
Xylene	Category 3	Not applicable.	Respiratory irritation
Toluene	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity in case of repeated exposure

Name of the product / ingredient	Category	Expositiosweg	Target organs
Ethylbenzene	Category 2	Not determined	Hearing organs
Toluene	Category 3	Not applicable.	Narcotic effects

Aspiration hazard

Xylene: ASPIRATION HAZARD - Category 1

Ethylbenzene: ASPIRATION HAZARD - Category 1

Toluene: ASPIRATION HAZARD - Category 1

Other data: Not available.

SECTION 12: ENVIRONMENTAL DISCLOSURES

12.1 Toxicity

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

Name of the product / ingredient	Result	Species	Exposure
n-Butyl acetate	Acute LC50 32 mg/l Acute LC50 62000 µg/l	Marine crustaceans - Artemia salina Fish - Danio rerio	48 hours 96 hours
Xylene	Acute LC50 8500 µg/l seawater Acute LC50 13400 µg/l freshwater	Crustaceans - Palaemonetes pugio Fish - Pimephales promelas	48 hours 96 hours
4-hydroxy-4-methylpentan-2-one	Acute LC50 420000 g/l seawater	Fish - Menidia beryllina	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 - neonate Crustaceans - Cancer magister - Zoea Fish - Oncorhynchus mykiss	72 hours 96 hours 48 hours 48 hours 96 hours

Conclusion / Summary: Not available.

SECTION 12: ENVIRONMENTAL DISCLOSURES

12.2 Persistence and degradability

Conclusion / Summary: Not available.

12.3 Bioaccumulative potential

Name of the product / ingredient	LogPow	BCF	Potential
2-Butoxyethyl acetate	1,51	-	low
n-Butyl acetate	2,3	-	low
Xylene	3,12	8.1 to 25.9	low
4-hydroxy-4-methylpentan-2-one	-0.14 to 1.03	-	low
Ethylbenzene	3,6	-	low
2-methoxy-1-methylethyl acetate	1,2	-	low
Toluene	2,73	90	low

12.4 Mobility in soil

Partition coefficient soil/water (K_{OC}): Not available.

Ethylbenzene: Not available.

12.5 Results of the PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No particular effects or hazards known.

SECTION 13: NOTES ON DISPOSAL

The information in this section provides 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).

13.1 Waste treatment methods

Disposal methods: Waste generation should be avoided or minimized whenever possible. Disposal of this product and its solutions and by-products must be carried out at all times in compliance with environmental protection requirements and waste disposal laws, as well as the requirements of local authorities. Dispose of surplus and non-recyclable products through a recognized waste disposal company. Do not discharge untreated waste into the sewage system unless all applicable regulations of the authorities are complied with.

Hazardous waste: According to the supplier's current knowledge, this product is not to be considered hazardous waste in the sense of EU Directive 2008/98/EC.

Disposal instructions: Do not allow to enter sewage system. For disposal, observe all relevant federal, state and local regulations.

If this product is mixed with other waste materials, then the original waste product code may no longer apply and an appropriate code must be assigned.

For further information, please contact your local waste management authority.

SECTION 13: NOTES ON DISPOSAL

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

Waste code	Waste designation
14 06 03*	Other solvents and solvent mixtures

Packaging Disposal

Methods:

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

Notes on disposal:

With the aid of the information provided in this safety data sheet, advice must be sought from the relevant waste authorities on the classification of empty containers. Empty containers must be scrapped or reconditioned. Contaminated containers must be disposed of in accordance with local and national regulations.

Packing type	European Waste Catalogue (EWC)
CEPE Guidelines	15 01 10* Packaging that contains residues of hazardous substances or is contaminated by hazardous substances

Special precautions:

Waste and containers 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. Vapor from product residues may form a highly flammable or explosive atmosphere inside the container. Do not cut open or grind used containers until they have been thoroughly cleaned inside. Avoid dispersal and run-off of released material and contact with soil, water, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

	ADR/RID	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT ACCESSORIES	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
Transport hazard classes	3	3	3
Packing 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 on the factory premises: transport only in closed containers that are upright and firm. Persons transporting the product must be instructed in the correct behavior in case of accidents, leakage or spillage.

SECTION 14: TRANSPORT INFORMATION

14.7 Carriage in bulk in accordance with Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: LEGAL PROVISIONS

15.1 Safety, health and environmental regulations/specific legislation 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 - Restriction on the manufacture of the placing on the market and the use of certain dangerous 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 mixture: Not applicable.

Name of the product/ingredient	Carcinogenic effects	Mutagenic effects	Effects on the development	Effects on fertility
Toluene	-	-	Repr. 2, H361d (Unborn child)	-

Ozone-depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

This product can be used for calculation to determine if a site falls under the Seveso Major Accident Hazards Directive.

National regulations

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

Storage class (TRGS 510): 3

Major Accidents Applicable. Category: 6 Flammable. 1

Ordinance: Water hazard class: Technical Annex No. 4

Instructions on Air Quality: 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: LEGAL PROVISIONS

International regulations

Chemical Weapons Convention, Schedule 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 (PIC)

Not listed.

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

Not listed.

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER DISCLOSURES

CEPE code: 1

Indicates information that has changed since the last version.

Abbreviations and acronyms:

ATE = estimated value acute toxicity
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No 1272/2008].
 DMEL = Derived minimum effect limit value DNEL = Derived non-effect limit value
 EUH phrase = CLP specific hazard statement
 PBT = Persistent, bioaccumulative and toxic
 PNEC = Estimated non-effect concentration RRN = REACH registration number
 vPvB = Very persistent and very bioaccumulative

Procedure for deriving the classification according to Regulation (EC) 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 the abbreviated H-phrases

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.

SECTION 16: OTHER DISCLOSURES

Full text of the abbreviated H-phrases

H315	Causes skin irritation.
H317	May cause allergic skin reactions.
H319	Causes severe eye irritation.
H332	Harmful by inhalation.
H335	May irritate the respiratory tract.
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 organisms, with long lasting effects.

Full text of the 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 WATER HAZARDOUS - Category 1
Aquatic Chronic 1, H410	LONG-TERM WATER HAZARDOUS - Category 1
Aquatic Chronic 3, H412	LONG-TERM WATER HAZARDOUS - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
H373 (Hearing organs)	Repeated contact may cause brittle or cracked skin.
EUH066	SEVERE 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	CORROSIVE/IRRECTIVE EFFECT ON SKIN - Category 2
Skin Irrit. 2, H315	SENSIBILIZATION OF SKIN - Category 1
Skin Sens. 1, H317	SENSIBILIZATION OF SKIN - 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 Irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic Effects) - Category 3

SECTION 16: OTHER DISCLOSURES

16.1 Waiver of rights

This leaflet is based on intensive development work and many years of practical experience. The content does not express a contractual legal relationship but serves as a guide.

No warranty is given for correctness and completeness. The supplier is not liable for any damage caused by the use of or contact with the product. The processor/buyer is not released from checking the product for suitability for the intended application. In addition, our ABG apply.

Further information:

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

The information in this safety data sheet corresponds to our current knowledge as well as to 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 rules and laws. The information in this safety data sheet describes the safety requirements of our product and does not represent any assurance of product properties.