Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 19.03.2025 Version number 21 (replaces version 20) Revision: 19.03.2025

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

· **1.1 Product identifier**

· Trade name: **Topcoat**

· Article number: 87872, 87873

· UFI: TWAE-80AV-X005-VET5

· **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.

· Technical function Plating agent

· Application of the substance / the mixture Protective coating
Anticorrosion additive

· **1.3 Details of the supplier of the safety data sheet**

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH
Lechstrasse 28
D 90451 Nürnberg
Tel. +49(0)911-642960
Fax. +49(0)911-644456
e-mail info@akemi.de

· Further information obtainable from: Laboratory

· **1.4 Emergency telephone number:** Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH
Tel. +49(0)911-64296-59
Reachable during the following office hours:
Monday – Thursday from 07:30 a.m. to 16:30 p.m.
Friday from 07:30 a.m. to 13:30 p.m.

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 2 H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.

· Storage: Store in a well-ventilated place. Keep cool.
Store in a well-ventilated place. Keep container tightly closed.

· **2.2 Label elements**

· Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

· Hazard pictograms

GHS02 GHS07 GHS08

· Signal word Warning

· Hazard-determining components of labelling: reaction mass of ethylbenzole and xylole

· Hazard statements H226 Flammable liquid and vapour.

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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H373 May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260	Do not breathe vapours.
P280	Wear protective gloves / eye protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314	Get medical advice/attention if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/ regional/national/international regulations.

· Additional information: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

· **2.3 Other hazards** The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.
· Determination of endocrine-disrupting properties For information on endocrine disrupting properties see section 11.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· Description: Mixture: consisting of the following components.

· Dangerous components:

EC number: 905-588-0 Index number: 601-022-00-9 Reg.nr.: 01-2119488216-32 01-2119486136-34	reaction mass of ethylbenzole and xylole Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	25-50%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9 Reg.nr.: 01-2119555267-33 01-2119488216-32-xxxx	xylene Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<10%
CAS: 100-41-4 EINECS: 202-849-4 Index number: 601-023-00-4 Reg.nr.: 01-2119489370-35 01-2119892111-44	ethylbenzene Flam. Liq. 2, H225 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 Aquatic Chronic 3, H412	1-5%

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· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· General information: Take affected persons out into the fresh air.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation: Supply fresh air or oxygen; call for doctor.
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Do not induce vomiting; call for medical help immediately.

· **4.2 Most important symptoms and effects, both acute and delayed**
Breathing difficulty
Headache
Dizziness
Dizziness
Nausea

· Hazards Danger of impaired breathing.

· **4.3 Indication of any immediate medical attention and special treatment needed** If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· Suitable extinguishing agents: CO_2, sand, extinguishing powder. Do not use water.

· For safety reasons unsuitable extinguishing agents:
Water with full jet
Water

· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· Protective equipment: Wear self-contained respiratory protective device.
Mount respiratory protective device.

· Additional information Cool endangered receptacles with water spray.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Mount respiratory protective device.

· **6.2 Environmental precautions:** Do not allow to penetrate the ground/soil.
Do not allow product to reach sewage system or any water course.

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Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

· **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections** See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling** Keep away from heat and direct sunlight.
Ensure good ventilation/exhaustion at the workplace.
Use only in well ventilated areas.

· Information about fire - and explosion protection: Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**
· Storage:
· Requirements to be met by storerooms and receptacles: No special requirements.
· Information about storage in one common storage facility: Store away from foodstuffs.
· Further information about storage conditions: Protect from frost.
Keep container tightly sealed.
· Storage class: 3
· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· Ingredients with limit values that require monitoring at the workplace:	
reaction mass of ethylbenzole and xylole	
AGW	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm H
100-41-4 ethylbenzene	
IOELV	Short-term value: 884 mg/m³, 200 ppm Long-term value: 442 mg/m³, 100 ppm Skin

· DNELs		
reaction mass of ethylbenzole and xylole		
Oral	DNEL (Langzeit-wiederholt)	5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	212 mg/kg bw/day (ARB)
		125 mg/kg bw/day (BEV)

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Inhalative	DNEL (Kurzzeit-akut)	442 mg/m³ Air (ARB)
		260 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	221 mg/m³ Air (ARB)
		65.3 mg/m³ Air (BEV)
1330-20-7 xylene		
Oral	DNEL (Langzeit-wiederholt)	12.5 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	212 mg/kg bw/day (ARB)
		125 mg/kg bw/day (BEV)
Inhalative	DNEL (Kurzzeit-akut)	442 mg/m³ Air (ARB)
		260 mg/m³ Air (BEV)
	DNEL (Langzeit-wiederholt)	221 mg/m³ Air (ARB)
		65.3 mg/m³ Air (BEV)
100-41-4 ethylbenzene		
Oral	DNEL (Langzeit-wiederholt)	1.6 mg/kg bw/day (BEV)
Dermal	DNEL (Langzeit-wiederholt)	180 mg/kg bw/day (ARB)
Inhalative	DNEL (Kurzzeit-akut)	293 mg/m³ Air (ARB)
	DNEL (Langzeit-wiederholt)	77 mg/m³ Air (ARB)
		15 mg/m³ Air (BEV)

· PNECs

reaction mass of ethylbenzole and xylole	
PNEC (wässrig)	1.6 mg/l (KA)
	0.004 mg/l (MW)
	0.044 mg/l (SW)
	0.01 mg/l (WAS)
PNEC (fest)	0.852 mg/kg Trockengew (BO)
	0.252 mg/kg Trockengew (MWS)
	2.52 mg/kg Trockengew (SWS)
1330-20-7 xylene	
PNEC (wässrig)	6.58 mg/l (KA)
	0.327 mg/l (MW)
	0.327 mg/l (SW)
	0.327 mg/l (WAS)
PNEC (fest)	2.31 mg/kg Trockengew (BO)
	12.46 mg/kg Trockengew (MWS)
	12.46 mg/kg Trockengew (SWS)
100-41-4 ethylbenzene	
PNEC (wässrig)	9.6 mg/l (KA)
	0.01 mg/l (MW)
	0.1 mg/l (SW)
	0.1 mg/l (WAS)
PNEC (fest)	2.68 mg/kg Trockengew (BO)
	1.37 mg/kg Trockengew (MWS)
	13.7 mg/kg Trockengew (SWS)

· Additional information: The lists valid during the making were used as basis.

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· **8.2 Exposure controls**

· Appropriate engineering controls: No further data; see section 7.

· Individual protection measures, such as personal protective equipment

· General protective and hygienic measures:
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Clean skin thoroughly immediately after handling the product.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

· Respiratory protection:
Short term filter device:
Filter A/P2
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection
Preventive skin protection by use of skin-protecting agents is recommended.
After use of gloves apply skin-cleaning agents and skin cosmetics.
The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times´ data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.
This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves
Fluorocarbon rubber (Viton)
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material
Value for the permeation: Level ≤ 480 min
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· For the permanent contact gloves made of the following materials are suitable:
Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Butyl rubber, BR

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· As protection from splashes gloves made of the following materials are suitable: Fluorocarbon rubber (Viton)
Vitoject (KCL, Art_No. 890)
Butoject (KCL, Art_No. 897, 898)
Butyl rubber, BR

· Not suitable are gloves made of the following materials: Chloroprene rubber, CR
Leather gloves
Strong material gloves
Nitrile rubber, NBR

· Eye/face protection  Tightly sealed goggles

· Body protection: Use protective suit.

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· General Information	
· Colour:	Various colours
· Odour:	Specific type
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	136-145 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1 Vol %
· Upper:	7.1 Vol %
· Flash point:	24 °C
· Auto-ignition temperature:	500 °C
· Decomposition temperature:	Not determined.
· pH	Not determined. Not applicable
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	2,200 mPas
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	10 hPa
· Vapour pressure at 50 °C:	20 hPa
· Density and/or relative density	
· Density at 20 °C:	1.2 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.

· **9.2 Other information**

· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

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· Solvent content:	
· Organic solvents:	42.6 %
· Solids content:	57.2 %
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· **10.1 Reactivity**	No further relevant information available.
· **10.2 Chemical stability**	
· Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions**	Develops readily flammable gases/fumes. Reacts with strong oxidising agents.
· **10.4 Conditions to avoid**	No further relevant information available.
· **10.5 Incompatible materials:**	No further relevant information available.
· **10.6 Hazardous decomposition products:**	Carbon monoxide

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SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)		
Inhalative	LC50/4 h	860 mg/l (rat)

reaction mass of ethylbenzole and xylole		
Oral	LD50	3,523 mg/kg (rat)
	NOAEL-Werte	250 mg/kg (rat)
Dermal	LD50	12,126 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m3 (rat)

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	LC50/4 h	27.124 mg/l (rat)
1330-20-7 xylene		
Oral	LD50	3,523-4,300 mg/kg (rat)
Dermal	LD50	>4,200 mg/kg (rabbit)
Inhalative	LC50/4h	29,000 mg/m3 (rat)
	LC50/4 h	21.7 mg/l (rat)
	LC50/48h	86 mg/l (Leuciscus idus)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)
Inhalative	LC50/4 h	17.2 mg/l (rat)

· Primary irritant effect:

· Skin corrosion/irritation — Causes skin irritation.

· Serious eye damage/irritation — Causes serious eye irritation.

· Respiratory or skin sensitisation — Based on available data, the classification criteria are not met.

· Germ cell mutagenicity — Based on available data, the classification criteria are not met.

· Carcinogenicity — Based on available data, the classification criteria are not met.

· Reproductive toxicity — Based on available data, the classification criteria are not met.

· STOT-single exposure — May cause respiratory irritation.

· STOT-repeated exposure — May cause damage to the central nervous system and the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation.

· Aspiration hazard — Based on available data, the classification criteria are not met.

· **11.2 Information on other hazards**

· Endocrine disrupting properties
None of the ingredients is listed.

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SECTION 12: Ecological information

· **12.1 Toxicity**

· Aquatic toxicity:	
reaction mass of ethylbenzole and xylole	
LC50/24h	1 mg/l (daphnia magna) (OECD 202)
EC50/48h	3.2-9.5 mg/l (daphnia magna) (US EPA)
ErC50/72h	4.9 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC	16 mg/l (BES)
	1.3 mg/l (Oncorhynchus mykiss)
NOELR/72h	0.44 mg/l (Pseudokirchneriella subcapitata)
NOEC/21d	1.57 mg/l (daphnia magna) (OECD 211)
NOELR/28d	16 mg/l (bacteria)
EC50/72h	1-10 mg/l (algae)
	4.7 mg/l (selenastrum capricornutum) (OECD 201)
LC50/96h	1-10 mg/l (fish)
	86 mg/l (Leuciscus idus)
	2.6 mg/l (Oncorhynchus mykiss) (OECD 203)
	8.9-16.4 mg/l (pimephales promelas)
1330-20-7 xylene	
EC50/24h	>175 mg/l (bacteria)

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	165 mg/l (daphnia magna)
EC50	10 mg/l (bacteria)
IC50	96 mg/l (BES)
	1 mg/l (daphnia magna)
LC50	2 mg/l (piscis)
LC50/24h	32 mg/l (lepomis macrochirus)
IC50/72h	2.2 mg/l (algae)
	3.3 mg/l (Pseudokirchneriella subcapitata)
EC50/48h	3.82 mg/l (daphnia magna)
NOEC	0.96-1.17 mg/l (daphnia magna)
	>1.3 mg/l (Oncorhynchus mykiss)
	0.44 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50/72h	4.7 mg/l (Pseudokirchneriella subcapitata)
	2.2 mg/l (selenastrum capricornutum) (OECD 201)
LC50/96h	16.9 mg/l (carp)
	1.57 mg/l (Cyprinus carpio)
	3.77-13.5 mg/l (piscis)
	20.9 mg/l (lepomis macrochirus)
	7.6 mg/l (Oncorhynchus mykiss)
	13.4 mg/l (pimephales promelas)
100-41-4 ethylbenzene	
LC50/24h	26.74-43.67 mg/l (lepomis macrochirus)
EC5	12 mg/l (pseudomonas putida)
EC50/48h	1.8-2.4 mg/l (daphnia magna)
EC50/16h	>12 mg/l (bacteria)
EC50/30min	600 mg/l (BES)
EC50/72h	4.9 mg/l (Skeletonema costatum (Kieselalge))
	5.4 mg/l (Pseudokirchneriella subcapitata)
	4.6 mg/l (selenastrum capricornutum)
LC50/96h	94.44 mg/l (carp)
	32 mg/l (lepomis macrochirus)
	4.2 mg/l (Oncorhynchus mykiss)
	12.1 mg/l (pimephales promelas)

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **12.5 Results of PBT and vPvB assessment**
· PBT: Not applicable.
· vPvB: Not applicable.
· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· Additional ecological information:
· General notes: Do not allow product to reach ground water, water course or sewage system.

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· Recommendation: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

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SECTION 14: Transport information

· **14.1 UN number or ID number**

· ADR, IMDG, IATA: UN1139

· **14.2 UN proper shipping name**

· ADR: 1139 COATING SOLUTION

· IMDG, IATA: COATING SOLUTION

· **14.3 Transport hazard class(es)**

· ADR

· Class: 3 (F1) Flammable liquids.

· Label: 3

· IMDG, IATA

· Class: 3 Flammable liquids.

· Label: 3

· **14.4 Packing group**

· ADR, IMDG, IATA: III

· **14.5 Environmental hazards:**

· Marine pollutant: No

· **14.6 Special precautions for user**: Warning: Flammable liquids.

· Hazard identification number (Kemler code): 30

· EMS Number: F-E,S-E

· Stowage Category: A

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· **14.7 Maritime transport in bulk according to IMO instruments**	Not applicable.
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Transport category	3
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1139 COATING SOLUTION, 3, III

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SECTION 15: Regulatory information

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

· Directive 2012/18/EU	
· Named dangerous substances - ANNEX I	None of the ingredients is listed.
· Seveso category	P5c FLAMMABLE LIQUIDS
· Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
· Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
· REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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according to Regulation (EC) No 1907/2006, Article 31

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Trade name: Topcoat

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· National regulations:

· Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed.
Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 511.2 g/l

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Department issuing SDS: Laboratory
· Date of previous version: 26.01.2023
· Version number of previous version: 20
· Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3