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Safety data sheet

BASF Safety data sheet according to the United Nations' Globally Harmonized System (UN GHS)
Date / Revised: 28.06.2024 Version: 3.0
Product: **183-153 5L**

(ID no. 50706143/SDS_GEN_00/EN)
Date of print 29.06.2024

1. Identification

Product identifier

183-153 5L

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

Relevant identified uses: Clearcoat product

Details of the supplier of the safety data sheet

Company:
BASF Coatings GmbH
Postfach 6123
48136 Muenster
Deutschland

Telephone: +49/2501/143688
E-mail address: product-safety-coatings@basf.com

Emergency telephone number

International emergency number:
Telephone: +49 180 2273-112

2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

Acute Tox. 5 (oral)
Skin Corr./Irrit. 2
Eye Dam./Irrit. 1
STOT SE 3 (May cause drowsiness and dizziness.)
STOT SE 3 (irritating to respiratory system)
STOT RE 2
Aquatic Acute 3
Flam. Liq. 3

For the classifications not written out in full in this section the full text can be found in section 16.

Label elements

Globally Harmonized System, UN (GHS)

Pictogram:

Signal Word:
Danger

Hazard Statement:

H226	Flammable liquid and vapour.
H303	May be harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves, protective clothing and eye protection or face protection.
P271	Use only outdoors or in a well-ventilated area.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P264	Wash contaminated body parts thoroughly after handling.
P242	Use non-sparking tools.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P243	Take action to prevent static discharges.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P260	Do not breathe dust or mist.
P273	Avoid release to the environment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P370 + P378	In case of fire: Use water spray for extinction.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P310	Immediately call a POISON CENTER or physician.
P332 + P313	If skin irritation occurs: Get medical attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.

Precautionary Statements (Storage):

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Precautionary Statements (Disposal):

P501	Dispose of contents and container to hazardous or special waste collection point.

Other hazards

According to UN GHS criteria

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Substances

Not applicable

Mixtures

Chemical nature

fillers, inorganic compounds, Phenolic resin, organic solvent, pigment, polyvinyl alcohol derivate

Hazardous ingredients (GHS)
According to UN GHS criteria

2-Methylpropan-1-ol

Content (W/W): >= 30 % - < 50 % CAS Number: 78-83-1 EC-Number: 201-148-0	Asp. Tox. 2 Flam. Liq. 3 Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 STOT SE 3 (drowsiness and dizziness) STOT SE 3 (irr. to respiratory syst.) H226, H318, H315, H305, H336, H335, H303 + H313

Xylene

Content (W/W): >= 10 % - < 12,5 % CAS Number: 1330-20-7 EC-Number: 215-535-7 INDEX-Number: 601-022-00-9	Asp. Tox. 1 Flam. Liq. 3 Acute Tox. 5 (Inhalation - vapour) Acute Tox. 5 (oral) Skin Irrit. 2 Eye Irrit. 2B STOT SE 3 (irr. to respiratory syst.) Aquatic Chronic 3 STOT RE (Central nervous system, Liver, Kidney) 2 Aquatic Acute 2 H226, H320, H315, H304, H335, H373, H303 + H333, H412, H401

Propan-1-ol

Content (W/W): >= 7 % - < 10 % CAS Number: 71-23-8 EC-Number: 200-746-9 INDEX-Number: 603-003-00-0	Flam. Liq. 2 Acute Tox. 5 (dermal) Eye Dam./Irrit. 1 STOT SE 3 (drowsiness and dizziness) H225, H318, H313, H336

Butan-1-ol

Content (W/W): >= 5 % - < 7 % CAS Number: 71-36-3 EC-Number: 200-751-6	Flam. Liq. 3 Acute Tox. 5 (oral) Acute Tox. 5 (dermal) Skin Corr./Irrit. 2 Eye Dam./Irrit. 1 STOT SE 3 (drowsiness and dizziness) STOT SE 3 (irr. to respiratory syst.) H226, H318, H315, H336, H335, H303 + H313

Ethylbenzene

Content (W/W): >= 1 % - < 2 %	Asp. Tox. 1
CAS Number: 100-41-4	Flam. Liq. 2
EC-Number: 202-849-4	Acute Tox. 4 (Inhalation - vapour)
INDEX-Number: 601-023-00-4	Acute Tox. 5 (oral)
	STOT RE (Auditory organ) 2
	Aquatic Acute 2
	Aquatic Chronic 3
	H225, H332, H303, H304, H373, H412, H401

n-Butyl acetate

Content (W/W): >= 1 % - < 2 %	Flam. Liq. 3
CAS Number: 123-86-4	STOT SE 3 (drowsiness and dizziness)
EC-Number: 204-658-1	Aquatic Acute 3
INDEX-Number: 607-025-00-1	H226, H336, H402
	EUH066

Urea-formaldehyde resin, isobutylated

Content (W/W): >= 1 % - < 2 %	Aquatic Chronic 4
CAS Number: 68002-18-6	H413

Phenol

Content (W/W): >= 0,2 % - < 0,3 %	Acute Tox. 3 (oral)
CAS Number: 108-95-2	Acute Tox. 3 (Inhalation - mist)
EC-Number: 203-632-7	Acute Tox. 3 (dermal)
INDEX-Number: 604-001-00-2	Skin Corr. 1B
	Eye Dam. 1
	Muta. 2
	STOT RE 2
	Aquatic Acute 2
	Aquatic Chronic 2
	H373, H341, H314, H301 + H311 + H331, H401, H411
	Specific concentration limit:
	Skin Corr./Irrit. 1B: >= 3 %
	Skin Corr./Irrit. 2: 1 - < 3 %
	Eye Dam./Irrit. 2: 1 - < 3 %

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:
Remove contaminated clothing immediately and clean before re-use or dispose it if necessary. After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Consult a doctor if skin irritation persists.

On contact with eyes:
Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:
Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: allergic symptoms, dazed state, irritation of respiratory tract, skin irritation, dizziness, Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Antidote: No known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:
water jet

Special hazards arising from the substance or mixture

Fire will produce dense black smoke. Inhalation of dangerous decomposition products may cause serious damage to health.

Advice for fire-fighters

Special protective equipment:
Appropriate breathing apparatus may be required.

Further information:
Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. Keep away from sources of ignition. For emergency responders: Advice on product handling can be found in sections 7 and 8 of this safety data sheet. Information regarding personal protective measures, see section 8.

Environmental precautions

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

7. Handling and Storage

Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. The workplace should be equipped with an emergency shower and eye-rinsing facility. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

Protection against fire and explosion:
Avoid all sources of ignition: heat, sparks, open flame. Product may charge electrostatically: always use earthing leads when transferring from one container to another and earth containers. It is recommended that operators should wear antistatic clothing and footwear. Solvent vapours are heavier than air and spread along floors. Vapour forms explosive mixtures with air. The relevant fire protection measures should be noted. Use explosion-proof equipment.

Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Polypropylene (PP), Polyethylenetherephtalate (PET), Low density polyethylene (LDPE), High density polyethylene (HDPE), Stove-lacquer C222A/C221A, Stove-lacquer NOVOCAN S-G 500, Stove-lacquer Vitalure 745, Stove-lacquer Valspar HXR008F red, Stove-lacquer KNS L-5X, Stove-lacquer EHD0022, Stove-lacquer 79/14/3 (Müller/CH), Stove-lacquer R 78433, Stove-lacquer RDL 50
Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions.

Specific end use(s)

Please refer to the technical leaflet for further information.

8. Exposure Controls/Personal Protection

Control parameters

Components with occupational exposure limits

100-41-4: Ethylbenzene
108-95-2: Phenol
123-86-4: n-Butyl acetate
1330-20-7: Xylene

Exposure controls

Personal protective equipment

Respiratory protection:
Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter

Hand protection:
Further information on penetration time is available from the manufacturer of the glove.
Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.
The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).
Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.
The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).
Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.
nitrile gloves - material thickness: 0,35 mm

Eye protection:
Eye protection not required., Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:
Body protection not required., Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures
Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible. Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

State of matter:	liquid	
Form:	liquid	
Colour:	brown	
Odour:	alcohol-like	
Melting point:	not determined	
onset of boiling:	not determined	
Flammability:	Flammable liquid and vapour.	
Lower explosion limit:	36 g/m3	
Flash point:	25 °C	(ISO 3679)
Auto-ignition temperature:	> 200,00 °C	
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.	
pH value:	substance/mixture is non-polar/aprotic	
Viscosity, kinematic:	157,000 mm2/s (40 °C) 411,6 mm2/s (23 °C)	
Solubility in water:	immiscible	
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures	
Vapour pressure:	(20 °C) not determined (50 °C) not determined	
Density:	1,075 g/cm3 (20 °C)	
Relative vapour density (air):	Heavier than air.	

9.2. Other information

Information with regard to physical hazard classes

Explosives		
Explosion hazard:	not explosive	
Oxidizing properties		
Fire promoting properties:	not fire-propagating	
Flammable solids		
Burning rate:	The material doesn't meet the criteria specified in paragraph 33.2.4.4 of UN manual of tests and criteria.	(UN Test N.1 (ready combustible solids))
Self-heating substances and mixtures		
Self heating ability:	It is not a material capable of spontaneous heating	

Other safety characteristics

Miscibility with water:		
	immiscible	
Flow time:	> 60 s (23 °C)	(DIN EN ISO 2431; 6 mm)

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

Vapours may form ignitable mixture with air.

Conditions to avoid

Avoid heat. Avoid direct sunlight. Avoid all sources of ignition: heat, sparks, open flame.

Incompatible materials

Substances to avoid:
Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

Hazardous decomposition products

:
When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:
Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause

some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Of low toxicity after single ingestion.

Information on: Propan-1-ol

Experimental/calculated data:
LD50 rat (oral): approx. 8.000 mg/kg (BASF-Test)

Information on: Ethylbenzene

Experimental/calculated data:
LD50 rat (oral): 3.500 mg/kg
Literature data.

Information on: Xylene

Experimental/calculated data:
LD50 rat (oral): 3.523 mg/kg (similar to OECD guideline 401)

Irritation

Assessment of irritating effects:
The liquid splashed in the eyes may cause irritation and reversible damage. Skin contact causes irritation. May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Assessment of mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment of carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment of reproduction toxicity:
Based on available data, the classification criteria are not met.

Developmental toxicity

Assessment of teratogenicity:
Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Assessment of STOT single:
Causes temporary irritation of the respiratory tract. Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:
Repeated exposure may affect certain organs.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

Formaldehyde may be released in the application and curing process. Formaldehyde may cause irreversible damage, is irritating to the mucous membranes and may cause skin sensitization.

12. Ecological Information

Toxicity

Assessment of aquatic toxicity:
Harmful to aquatic life. There are no test results available for this product. Do not allow to enter drains or waterways.

Persistence and degradability

Assessment biodegradation and elimination (H2O):
Biological degradability of hazardous substances mentioned in section 3:

Information on: Ethylbenzene
Elimination information:
70 - 80 % TIC of the ThIC (28 d) (ISO 14593) (aerobic, activated sludge) Readily biodegradable (according to OECD criteria).

Information on: Phenol
Elimination information:
85 % BOD of the ThOD (28 d) (OECD 301C; ISO 9408; 92/69/EWG, C.4-F) (aerobic, Inoculum conforming to MITI requirements (OECD 301C)) Readily biodegradable.

Information on: n-Butyl acetate
Elimination information:
80 % BOD of the ThOD (5 d) (OECD 301D; 92/69/EWG, C.4-E) (aerobic, municipal sewage treatment plant effluent)

Information on: Xylene
Elimination information:

87,8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)
The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Bioaccumulative potential

Bioaccumulation potential:
No data available.

Mobility in soil

Assessment transport between environmental compartments:
Adsorption in soil: No data available.

13. Disposal Considerations

Waste treatment methods

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

14. Transport Information

Land transport

ADR

UN number or ID number:	UN1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	Tunnel code: D/E

RID

UN number or ID number:	UN1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3

Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Inland waterway transport

ADN

UN number or ID number:	UN1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no
Special precautions for user:	None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number:	UN 1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	no Marine pollutant: NO
Special precautions for user:	EmS: F-E; S-E

Air transport

IATA/ICAO

UN number or ID number:	UN 1263
UN proper shipping name:	PAINT
Transport hazard class(es):	3
Packing group:	III
Environmental hazards:	No Mark as dangerous for the environment is needed
Special precautions for user:	None known

Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

Further information
Not dangerous goods of class 3 in packages up to 450 litres capacity (valid for ADR, ADNR, RID, TDG and USDOT).

15. Regulatory Information

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

Not applicable

16. Other Information

For multi-pack systems observe material safety data sheets of all components. Restricted to professional users.

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
STOT SE	Specific target organ toxicity — single exposure
STOT RE	Specific target organ toxicity — repeated exposure
Aquatic Acute	Hazardous to the aquatic environment - acute
Flam. Liq.	Flammable liquids
Asp. Tox.	Aspiration hazard
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
Muta.	Germ cell mutagenicity
H226	Flammable liquid and vapour.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H305	May be harmful if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H335	May cause respiratory irritation.
H303 + H313	May be harmful if swallowed or in contact with skin.
H320	Causes eye irritation.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
H303 + H333	May be harmful if swallowed or if inhaled.
H412	Harmful to aquatic life with long lasting effects.
H401	Toxic to aquatic life.
H225	Highly flammable liquid and vapour.
H313	May be harmful in contact with skin.
H332	Harmful if inhaled.
H303	May be harmful if swallowed.
H402	Harmful to aquatic life.
H413	May cause long lasting harmful effects to aquatic life.
H373	May cause damage to organs through prolonged or repeated exposure.

H341	Suspected of causing genetic defects.
H314	Causes severe skin burns and eye damage.
H301 + H311 + H331	Toxic if swallowed, in contact with skin or if inhaled.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Vertical lines in the left hand margin indicate an amendment from the previous version.