

## **Safety Data Sheet**

according to Regulation (EC) No 1907/2006

### **TIP TOP LINING 74 RESIN**

Revision date: 23.06.2023 Product code: 00359-1074 Page 1 of 13

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

### 1.1. Product identifier

TIP TOP LINING 74 RESIN

Art.-No.

590 0026, 590 0387

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

### Use of the substance/mixture

Laminate coat

## 1.3. Details of the supplier of the safety data sheet

Company name: TIP TOP Oberflaechenschutz Elbe GmbH

Street: Heuweg 4

Place: D-06886 Wittenberg

Telephone: +49(0)3491/635-50 Telefax: +49(0)3491/635-552

Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

1.4. Emergency telephone INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a) number:

Public Poisons Information Line: +353 (0) 1 809 2166 (8am-10pm 7 days a

week)

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

## Regulation (EC) No 1272/2008

Flam. Liq. 3; H226 Acute Tox. 4: H332 Skin Irrit. 2: H315 Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3: H335 STOT RE 1; H372 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# Regulation (EC) No 1272/2008

### Hazard components for labelling

Styrene

Methacrylic acid

Signal word: Danger

Pictograms:







### **Hazard statements**

H226 Flammable liquid and vapour. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

Suspected of damaging the unborn child. H361d



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H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P260 Do not breathe vapour.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P273 Avoid release to the environment.

### Special labelling of certain mixtures

EUH208 Contains Neodecanoic acid, cobalt salt. May produce an allergic reaction.

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Vapours may form explosive mixture with air.

## **SECTION 3: Composition/information on ingredients**

### 3.2. Mixtures

# Chemical characterization

Epoxide-vinyl ester-resin in styrene



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### Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	GHS Classification				
100-42-5	Styrene	< 45 %			
	202-851-5	601-026-00-0	01-2119457861-32		
	Flam. Liq. 3, Repr. 2, Acute To. Aquatic Chronic 3; H226 H3610		TOT SE 3, STOT RE 1, Asp. Tox. 1, 2 H304 H412		
79-41-4	Methacrylic acid	< 2,5 %			
	201-204-4	607-088-00-5	01-2119463884-26		
	Acute Tox. 4, Acute Tox. 4, Acu	ute Tox. 4, Skin Corr. 1A, ST	OT SE 3; H332 H312 H302 H314		
75-57-0	Tetramethylammonium chloride				
	200-880-8		01-2119970924-26		
	Acute Tox. 2, Acute Tox. 3, Skin Irrit. 2, STOT SE 1, Aquatic Chronic 2; H300 H311 H315 H370 H411				
27253-31-2	Neodecanoic acid, cobalt salt				
	248-373-0	607-230-00-6	01-2119970733-31		
	Repr. 1B, Acute Tox. 4, Skin Sens. 1, Aquatic Chronic 3; H360D H302 H317 H412				

Full text of H and EUH statements: see section 16.

## Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc.	Limits, M-factors and ATE	
100-42-5	202-851-5	Styrene	< 45 %
	inhalation: LC5 2650 mg/kg	60 = 12 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 =	
79-41-4	201-204-4	Methacrylic acid	< 2,5 %
	I	E = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = al: ATE = 500 mg/kg STOT SE 3; H335: >= 1 - 100	
75-57-0	200-880-8	Tetramethylammonium chloride	< 0,5 %
	dermal: LD50 =	= 200 - 500 mg/kg; oral: LD50 = 50 mg/kg	
27253-31-2	248-373-0	Neodecanoic acid, cobalt salt	< 0,3 %
	dermal: LD50 =	= > 2000 mg/kg; oral: LD50 = 3000 mg/kg	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

### **General information**

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take away from danger area and lay down affected person.

### After inhalation

Move to fresh air in case of accidental inhalation of vapours.

Seek medical treatment immediately.

# After contact with skin

Wash off immediately with soap and plenty of water.

Treat subsequently with skin cream.

Consult a doctor if skin irritation persists.



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## After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Consult (eye) doctor immediately.

### After ingestion

Do not induce vomiting.

Summon a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Never give anything by mouth to an unconscious person.

Induce vomiting only upon the advice of a physician.

### 4.2. Most important symptoms and effects, both acute and delayed

Harmful by inhalation.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure. (the ear)

Suspected of damaging the unborn child.

Attention. Beware, danger of aspiration.

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

## 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptoms.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

### Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

# Unsuitable extinguishing media

Full water jet.

## 5.2. Special hazards arising from the substance or mixture

Fire may produce:

carbon monoxide and carbon dioxide

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.

### Additional information

Vapours are heavier than air and spread along ground.

The vapour/air mixture is explosive, even in empty, uncleaned receptacles.

Cool containers at risk with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

### **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Ensure adequate ventilation.

Remove persons to safety.

Keep away sources of ignition.

### For non-emergency personnel

Do not breathe vapours.

Avoid contact with skin, eyes and clothing.



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### For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

### 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

### 6.3. Methods and material for containment and cleaning up

### For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

## For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

Shovel into suitable container for disposal.

### 6.4. Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Informations for disposal look up chapter 13.

## **SECTION 7: Handling and storage**

## 7.1. Precautions for safe handling

# Advice on safe handling

Keep container tightly closed.

Vapours are heavier than air and spread along ground.

Use only in thoroughly ventilated areas.

Provide suitable extraction at the processing machines.

# Advice on protection against fire and explosion

Keep away from heat and sources of ignition.

Do not smoke.

Take precautionary measures against static discharges.

Use only explosion-proof equipment.

## 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Pay attention to anti-explosion rules.

Avoid temperatures above 50°C.

### Hints on joint storage

Incompatible with:

Oxidizing agents, Metal halogenides, Peroxides

## Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

## 7.3. Specific end use(s)

Laminate coat

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters



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### Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	Category	Origin
149-57-5	Ethyl hexanoic acid	-	5		TWA (8 h)	
79-41-4	Methacrylic acid	20	70		TWA (8 h)	
		40	140		STEL (15 min)	
100-42-5	Styrene	20	85		TWA (8 h)	
		40	170		STEL (15 min)	

### **Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
100-42-5	Styrene	Mandelic acid plus phenylglyoxylic acid	400 mg/g	Creatinine	End of shift

### 8.2. Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Pay attention to explosion protection rules.

### Protective and hygiene measures

Do not inhale vapours.

Wash hands before breaks and immediately after handling the product.

When using do not eat, drink or smoke.

Treat subsequently with skin cream.

Remove and wash contaminated clothes before re-use.

### Eye/face protection

Tightly fitting goggles (EN 166).

Eye wash bottle with pure water (EN 15154).

# **Hand protection**

Chemical protective gloves made of nitrile, nitrile/cotton, butyl or neoprene, with a minimum thickness of 0.7 mm, permeation time of approx. 480 minutes.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.

Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Pls. find examples in the protective gloves database under: http://bestglove.com/site/chemrest/

## Skin protection

Long sleeved clothing (DIN EN ISO 6530)

Solvent-resistant apron (EN 467).

## Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state: Liquid
Colour: Various
Odour: Pungent

Test method

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pH-Value:	n.d.	
Changes in the physical state		
Melting point/freezing point:	n.d.	
Boiling point or initial boiling point and boiling range:	145 °C	
Sublimation point:	n.a.	
Softening point:	n.d.	
Flash point:	29,4 °C	
Flammability Solid/liquid:	n.a.	
Explosive properties  The product is considered non-exp	olosive; nethertheless explosive vapour/air mixture can be	e generated.
Lower explosion limits:	0 vol. %	
Upper explosion limits:	6 vol. %	
Auto-ignition temperature:	490 °C	
Solid:	n.a.	
Gas:	n.a.	
Decomposition temperature:	n.d.	
Oxidizing properties  Not oxidising.		
Vapour pressure: (at 20 °C)	8,53 hPa	Calculated
Vapour pressure:		ASTM D 323
Density:	1,078 g/cm³	
Bulk density:	n.a.	
Water solubility: (at 20 °C)	Immiscible	
Solubility in other solvents n.d.		
Partition coefficient n-octanol/water:	n.d.	
Viscosity / dynamic:	n.d.	
Viscosity / kinematic: (at 40 °C)	> 20,5 mm²/s	
Flow time:	n.d.	
Relative vapour density:	n.d.	
Evaporation rate:	n.d.	
Solvent separation test:	n.d.	

# Solvent content: 9.2. Other information

No data available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

No decomposition if stored and applied as directed.

< 5 %



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### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

Reactions with peroxides.

### 10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat.

Vapour/air mixtures are explosive at intensive warming.

Heating can release vapours which can be ignited.

Avoid temperatures above 50°C.

If heating up polymerisation.

### 10.5. Incompatible materials

Oxidizing agents, Metal halogenides, Peroxides

## 10.6. Hazardous decomposition products

No hazardous decomposition products known.

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Carbon monoxide and carbon dioxide

### **SECTION 11: Toxicological information**

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

### **Acute toxicity**

Harmful if inhaled.

No toxical dates available.

Styrene

LD50/oral/rat: 5000 mg/kg LD50/dermal/rat: > 2000 mg/kg LC50/inhalativ/rat: 11,8 mg/l/4h

## **ATEmix** calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) 3,260 mg/l

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

## Sensitising effects

Contains Neodecanoic acid, cobalt salt. May produce an allergic reaction.

### Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (Styrene)

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

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

### STOT-single exposure

May cause respiratory irritation. (Styrene; Methacrylic acid)

### STOT-repeated exposure

Causes damage to organs through prolonged or repeated exposure. (Styrene)

### **Aspiration hazard**

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

### Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

### 11.2. Information on other hazards



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### **Endocrine disrupting properties**

No data available

### Other information

Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

## **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecological dates are not available.

Harmful to aquatic life with long lasting effects.

Styrene

LC50/Pimephales promelas/96 h = 4,02 mg/kg

EC50/Daphnia magna/48 h = 4,7 mg/kg

EC50/Pseudokirchneriela subcapitata/72 h > 4,9 mg/kg

### 12.2. Persistence and degradability

No data available

# 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7. Other adverse effects

Hazard to waters.

Product is toxic to fish and their nutrient animals.

### **Further information**

Do not flush into surface water or sanitary sewer system.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

### **Disposal recommendations**

Can be incinerated, when in compliance with local regulations.

Where possible recycling is preferred to disposal.

# List of Wastes Code - residues/unused products

080409 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF

COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of adhesives and sealants (including waterproofing products);

waste adhesives and sealants containing organic solvents or other hazardous substances;

hazardous waste

### Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

Packaging that cannot be cleaned should be disposed of like the product.

## **SECTION 14: Transport information**



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# Land transport (ADR/RID)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg
Excepted quantity: E1
Transport category: 3
Hazard No: 30
Tunnel restriction code: D/E

## Inland waterways transport (ADN)

**14.1. UN number:** UN 1866

14.2. UN proper shipping name: Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Classification code: F1

Limited quantity: 5 L / 30 kg
Excepted quantity: E1

# Marine transport (IMDG)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



Marine pollutant:

Limited quantity:

Excepted quantity:

EmS:

No

5 L / 30 kg

E1

EnS:

F-E, S-E

# Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:UN 186614.2. UN proper shipping name:Resin solution

14.3. Transport hazard class(es):314.4. Packing group:IIIHazard label:3



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Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1

IATA-packing instructions - Passenger:355IATA-max. quantity - Passenger:60 LIATA-packing instructions - Cargo:366IATA-max. quantity - Cargo:220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

### 14.7. Maritime transport in bulk according to IMO instruments

The transport takes place only in approved and appropriate packaging.

## **SECTION 15: Regulatory information**

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

### **EU** regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

2004/42/EC (VOC): < 5 %; < 90 g/l

Information according to 2012/18/EU

(SEVESO III):

P5c FLAMMABLE LIQUIDS

## **National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile

work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or

nursing mothers.

Water hazard class (D): 2 - obviously hazardous to water

## 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 2,6,7,10,11,12.

### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk



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GHS = Globally Harmonized System of Classification and Labelling of Chemicals

REACH = Registration, Evaluation, Authorization and Restriction of Chemicals

CAS = Chemical Abstract Service

EN = European norm

ISO = International Organization for Standardization

DIN = Deutsche Industrie Norm

PBT = Persistent Bioaccumulative and Toxic

vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose

LC = Lethal concentration

EC = Effect concentration

IC = Median immobilisation concentration or median inhibitory concentration

## Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 1; H372	Calculation method
Aquatic Chronic 3; H412	Calculation method

# Relevant H and EUH statements (number and full text)

)	ievant H and EUH Stat	ements (number and full text)
	H226	Flammable liquid and vapour.
	H300	Fatal if swallowed.
	H302	Harmful if swallowed.
	H304	May be fatal if swallowed and enters airways.
	H311	Toxic in contact with skin.
	H312	Harmful in contact with skin.
	H314	Causes severe skin burns and eye damage.
	H315	Causes skin irritation.
	H317	May cause an allergic skin reaction.
	H319	Causes serious eye irritation.
	H332	Harmful if inhaled.
	H335	May cause respiratory irritation.
	H360D	May damage the unborn child.
	H361d	Suspected of damaging the unborn child.
	H370	Causes damage to organs.
	H372	Causes damage to organs through prolonged or repeated exposure.
	H411	Toxic to aquatic life with long lasting effects.
	H412	Harmful to aquatic life with long lasting effects.
	EUH208	Contains Neodecanoic acid, cobalt salt. May produce an allergic reaction

### **Further Information**

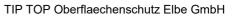
Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

"(n.a. = not applicable; n.d. = not determined)"





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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)