

according to UK REACH Regulation

TIP TOP SOLVENT F12

Revision date: 20.12.2023

Product code: 00359-1060

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

1.1. Product identifier

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Art.-No.

590 0095

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

Use of the substance/mixture

Processing agent

1.3. Details of the supplier of the safety data sheet

Manufacturer

Manufacturer		
Company name:	TIP TOP Oberflaechenschutz Elbe GmbH	
Street:	Heuweg 4	
Place:	D-06886 Wittenberg	
Telephone:	+49(0)3491/635-50	Telefax:
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de	
Supplier		
Company name:	REMA TIP TOP INDUSTRY UK LTD	
Street:	Plumtree Industrial Estate, Harworth	
Place:	Doncaster, DN11 8EW, South Yorkshire	
Telephone:	+44 (0)1302 711233	
Internet:	www.rema-tiptop.co.uk	
1.4. Emergency telephone	INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)	
number:	In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Flam. Liq. 3; H226 Acute Tox. 4; H332 Asp. Tox. 1; H304 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

GB CLP Regulation

Hazard components for labelling

Styrene Signal word:

Pictograms:





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azard statements)
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
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.

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 Preparation with styrene

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
100-42-5	Styrene			> 90 %
	202-851-5	601-026-00-0	01-2119457861-32	
		, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, 332 H315 H319 H335 H372 H304 H4		

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



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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. I	imits, M-factors and ATE	
100-42-5	202-851-5	Styrene	> 90 %
	inhalation: LC5	0 = 11,8 mg/l (vapours); oral: LD50 = 2650 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.

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

May be fatal if swallowed and enters airways. 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.

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

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit.



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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.

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/ground water.

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). Information for disposal see section 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. Recommended storage temperature: < 40°C

Hints on joint storage

Incompatible with oxidizing agents.



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Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

Processing agent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
100-42-5	Styrene	100	430		TWA (8 h)	WEL
		250	1080		STEL (15 min)	WEL

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Pay attention to explosion protection guidelines.

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). Eve 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:	Colourless - yellowish
Odour:	Sweetish

pH-Value:

Test method

n.a.

Changes in the physical state



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Melting point/freezing point:	- 31 °C	
Boiling point or initial boiling point and boiling range:	145 °C	
Sublimation point:	n.a.	
Softening point:	n.d.	
Flash point:	31 °C	
Sustaining combustion:	Sustaining combustion	
Flammability Solid/liquid:	n.a.	
Explosive properties The product is considered non-explosive;	nevertheless explosive vapour/air mixture can be	generated.
Lower explosion limits:	0,9 vol. %	
Upper explosion limits:	6,8 vol. %	
Auto-ignition temperature:	490 °C	
Self-ignition temperature		
Solid:	n.a.	
Gas:	n.a.	
Decomposition temperature:	n.d.	
Oxidizing properties Not oxidising.		
Vapour pressure: (at 20 °C)	6,67 hPa	
Density (at 20 °C):	0,91 g/cm³	
Bulk density:	n.a.	
Water solubility: (at 25 °C)	0,32 g/L	Immiscible
Solubility in other solvents n.d.		
Partition coefficient n-octanol/water:	Log Pow: 2,96	
Viscosity / dynamic: (at 25 °C)	0,696 mPa·s	
Viscosity / kinematic: (at 25 °C)	0,77 mm²/s	
Flow time:	n.d.	
Relative vapour density:	3,6	
Evaporation rate:	n.d.	
Solvent separation test:	0 %	
Solvent content:	100 %	
9.2. Other information		
No data available		
SECTION 40. Stability and reactivity		

SECTION 10: Stability and reactivity

10.1. Reactivity

No decomposition if stored and applied as directed.

10.2. Chemical stability

Risk of polymerisation



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10.3. Possibility of hazardous reactions

Reaction with: Strong acids and strong bases Strong oxidizing agents Peroxides

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Avoid temperatures above 30°C. Vapour/air mixtures are explosive at intensive warming. Heating can release vapours which can be ignited.

10.5. Incompatible materials

Strong acids and strong bases Strong oxidizing agents Peroxides

10.6. Hazardous decomposition products

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 GB CLP Regulation

Acute toxicity

Harmful if inhaled. No toxicological data available. Styrene LD50/oral/rat: 5000 mg/kg LD50/dermal/rat: > 2000 mg/kg LC50/inhalation/rat: 11,8 mg/l/4h

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 13,33 mg/l; ATE (inhalation dust/mist) 1,667 mg/l

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

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

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)

STOT-repeated exposure

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

Aspiration hazard

May be fatal if swallowed and enters airways.

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

Endocrine disrupting properties No data available



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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 data 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

Biodegradable (OECD): 70,9% (28 d) Readily biodegradable (to OECD criteria).

12.3. Bioaccumulative potential

Low bio-accumulation can be estimated because of low log Po/w.

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 UK REACH.

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

Hazardous water pollutant.

Product is toxic to fish and their nutrient animals.

Further information

080409

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

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)		
<u>14.1. UN number:</u>	UN 2055	
14.2. UN proper shipping name:	STYRENE MONOMER, STABILIZED	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Classification code:	F1	
Limited quantity:	5 L / 30 kg	
Excepted quantity:	E1	
Transport category: Hazard No:	3 39	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
<u>14.1. UN number:</u>	UN 2055	
14.2. UN proper shipping name:	STYRENE MONOMER, STABILIZED	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Classification code: Limited quantity:	F1 5 L / 30 kg	
Excepted quantity:	E1	
Marine transport (IMDG)		
<u>14.1. UN number:</u>	UN 2055	
14.2. UN proper shipping name:	STYRENE MONOMER, STABILIZED	
14.3. Transport hazard class(es):	3	
14.4. Packing group:	III	
Hazard label:	3	
Marine pollutant:	No	
Limited quantity:	5 L / 30 kg	
Excepted quantity: EmS:	E1 F-E, S-D	
Ems: Air transport (ICAO-TI/IATA-DGR)	Г- С , О- И	
	UN 2055	
<u>14.1. UN number:</u> 14.2. UN proper shipping name:	STYRENE MONOMER, STABILIZED	
	3	
14.3. Transport hazard class(es):	3	
14.4. Packing group:		
Hazard label:	3	



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Limited quantity Passenger:	10 L	
Passenger LQ:	Y344	
Excepted quantity:	E1	
IATA-packing instructions - Passenger:	355	
IATA-max. quantity - Passenger: IATA-packing instructions - Cargo:	60 L 366	
IATA-packing instituctions - Cargo:	220 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	No	
	NO	
14.6. Special precautions for user	trial hydiana and aafaty practica	
Handle in accordance with good indus 14.7. Maritime transport in bulk according t	• • • • •	
The transport takes place only in appr		
	oved and appropriate packaging.	
SECTION 15: Regulatory information		
15.1. Safety, health and environmental regu	lations/legislation specific for the substance or mixture	
EU regulatory information		
Restrictions on use (REACH, annex XVII)		
Entry 3, Entry 40, Entry 75		
Directive 2004/42/EC on VOC in paints and varnishes:	100 %; 910 g/l	
Information according to Directive 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the work protection guideline' (94/33/EC). Observe employment rest under the Maternity Protection Directive (92/85/EEC) for expecta nursing mothers.	trictions
Water hazard class (D):	2 - obviously hazardous to water	
15.2. Chemical safety assessment		
For this substance a chemical safety a	ssessment has not been carried out	

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): 2,6,7,9,10,11,12,14,15.



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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

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 GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Acute Tox. 4; H332	Calculation method
Asp. Tox. 1; H304	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)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

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.



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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)

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