

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 1 of 13

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

#### 1.1. Product identifier

TIP TOP PRIMER PR 304

##### Art.-No.

525 4112, 525 4150

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

##### Use of the substance/mixture

Adhesive

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

Company name: REMA TIP TOP AG

Street: Gruber Strasse 65

Place: D-85586 Poing

Telephone: +49 (0) 8121 / 707 - 100

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

#### 1.4. Emergency telephone number:

INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)  
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. 2; H225  
Acute Tox. 4; H312  
Acute Tox. 4; H332  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H335  
STOT SE 3; H336  
STOT RE 2; H373  
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

Reaction mass of ethylbenzene and xylene  
Butanone

Signal word: Danger

##### Pictograms:



##### Hazard statements

H225 Highly flammable liquid and vapour.  
H312+H332 Harmful in contact with skin or if inhaled.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 2 of 13

H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

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.
P312	Call a POISON CENTER/doctor if you feel unwell.
P273	Avoid release to the environment.

#### Special labelling of certain mixtures

EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### 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 in organic solvents

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 3 of 13

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
	Reaction mass of ethylbenzene and xylene			< 40 %
	905-588-0		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304			
78-93-3	Butanone			< 30 %
	201-159-0	606-002-00-3	01-2119457290-43	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
1314-13-2	Zinc oxide			< 2,5 %
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
13463-67-7	titanium dioxide			< 5 %
	236-675-5	022-006-00-2	01-2119489379-17	
	Carc. 2; H351			
108-88-3	Toluene			< 1 %
	203-625-9	601-021-00-3	01-2119471310-51	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H225 H361d H315 H336 H373 H304			
7779-90-0	Trizinc bis(orthophosphate)			< 1 %
	231-944-3	030-011-00-6	01-2119485044-40	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

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	
	905-588-0	Reaction mass of ethylbenzene and xylene	< 40 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg STOT RE 2; H373: >= 10 - 100	
108-88-3	203-625-9	Toluene	< 1 %
		inhalation: LC50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg	

#### Further Information

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter <= 10 µm.

### 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.  
 In the event of symptoms refer for medical treatment.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 4 of 13

#### After contact with skin

Wash off immediately with soap and plenty of water.  
Consult a doctor if skin irritation persists.

#### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids.  
Seek medical treatment by eye specialist.

#### After ingestion

Do not induce vomiting.  
Rinse out mouth and give plenty of water to drink.  
Never give anything by mouth to an unconscious person.  
Summon a doctor immediately.  
The decision whether to induce vomiting or not is to be taken by a physician.

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

Harmful in contact with skin or if inhaled.  
Causes skin irritation.  
Causes serious eye irritation.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs through prolonged or repeated exposure.

#### 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

Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, 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  
Chlorine compounds

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.  
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.  
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.  
Keep away sources of ignition.  
Keep away noninvolved persons.

##### For non-emergency personnel

Do not breathe vapours.  
Avoid contact with skin, eyes and clothing.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 5 of 13

#### For emergency responders

- In case of vapour formation use respirator.
- Use personal protective clothing.
- Use only explosion-proof equipment.

#### **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.
- Clean contaminated surface thoroughly.

#### **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.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Avoid contact with skin, eyes and clothing.

#### Advice on protection against fire and explosion

- Do not smoke - volatile.
- Keep product and empty container away from heat and sources of ignition.
- Pay attention to anti-explosion rules.
- Take precautionary measures against static discharges.

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

#### Requirements for storage rooms and vessels

- Keep containers tightly closed in a cool, well-ventilated place.

#### Hints on joint storage

- Incompatible with oxidizing agents.

#### Further information on storage conditions

- Keep away from food, drink and animal feeding stuffs.

### **7.3. Specific end use(s)**

- Adhesive

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 6 of 13

#### Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
100-41-4	Ethylbenzene	100	442		TWA (8 h)	
		200	884		STEL (15 min)	
1309-37-1	Iron oxide, fume (as Fe)	-	5		TWA (8 h)	
		-	10		STEL (15 min)	
78-93-3	Methyl ethyl ketone (MEK) (Butan-2-one)	200	600		TWA (8 h)	
		300	900		STEL (15 min)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	
108-88-3	Toluene	50	192		TWA (8 h)	
		100	384		STEL (15 min)	
1330-20-7	Xylene, mixed isomers	50	221		TWA (8 h)	
		100	442		STEL (15 min)	
1314-13-2	Zinc oxide, fume (Respirable Fraction)	-	2		TWA (8 h)	
		-	10		STEL (15 min)	

#### Biological limit values

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	Butan-2-one	70 µmol/L	Urine	Post shift
108-88-3	Toluene	Toluene	0.02 mg/L	Blood	Prior to last shift of workweek
100-41-4	Ethyl benzene	Mandelic acid and phenylglyoxylic acid	0.7 g/g	Creatinine	End of shift at end of workweek

### 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.  
Avoid contact with eyes and skin.  
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 clothing before re-use.

#### Eye/face protection

Tightly fitting goggles (EN 166).  
Eye wash bottle with pure water (EN 15154).

#### Hand protection

Splash protection:  
Protective gloves resistant to chemicals made off butyl, Minimum coat thickness 0,7 mm, Permeation resistance (wear duration) > 30 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.  
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.



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 7 of 13

### Skin protection

Long sleeved clothing (DIN EN ISO 6530)

### 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:	Red
Odour:	Like ketone
pH-Value:	n. d.

### Changes in the physical state

Melting point/freezing point:	n. d.
Boiling point or initial boiling point and boiling range:	approx. 80 °C
Sublimation point:	n.a.
Softening point:	n. d.
Flash point:	- 14 °C
Sustaining combustion:	Sustaining combustion

### Flammability

Solid/liquid:	n.a.
Gas:	n.a.

### Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated

Lower explosion limits:	1 vol. %
Upper explosion limits:	n. d.
Auto-ignition temperature:	> 460 °C

### Self-ignition temperature

Solid:	n.a.
Gas:	n.a.

Decomposition temperature:	n. d.
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### Oxidizing properties

Not oxidising.

Vapour pressure: (at 20 °C)	approx. 101 hPa
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Density (at 20 °C):	1,02 g/cm <sup>3</sup>
Bulk density:	n.a.

Water solubility: (at 20 °C)	Partially miscible
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### Solubility in other solvents

n. d.

Partition coefficient n-octanol/water:	n. d.
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Viscosity / dynamic:	approx. 860 mPa·s
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Viscosity / kinematic: (at 40 °C)	> 20,5 mm <sup>2</sup> /s
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Flow time:	n. d.
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## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 8 of 13

Relative vapour density:	n. d.
Evaporation rate:	n. d.
Solvent separation test:	n. d.
Solvent content:	< 70 %

#### **9.2. Other information**

No data available

### **SECTION 10: Stability and reactivity**

#### **10.1. Reactivity**

No decomposition if stored and applied as directed.

#### **10.2. Chemical stability**

Stable under normal conditions.

#### **10.3. Possibility of hazardous reactions**

Reactions with oxidising agents.

#### **10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat.  
Vapours may form explosive mixture with air.

#### **10.5. Incompatible materials**

Strong oxidizing agents

#### **10.6. Hazardous decomposition products**

No hazardous decomposition products known.  
Fire may produce:  
Carbon monoxide and carbon dioxide  
Chlorine compounds

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

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

##### **Acute toxicity**

Harmful in contact with skin.  
Harmful if inhaled.  
No toxicological data available.

##### **ATEmix calculated**

ATE (inhalation dust/mist) 3,829 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**

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

##### **STOT-single exposure**

May cause respiratory irritation. (Reaction mass of ethylbenzene and xylene)  
May cause drowsiness or dizziness. (Butanone)

##### **STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (Reaction mass of ethylbenzene and xylene)



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 9 of 13

#### 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

##### Endocrine disrupting properties

No data available

##### Other information

Inhalation of vapours in high concentration can cause narcotic effects.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Inhalation of high vapour concentration 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.

Xylene (mixed isomers)

LC50/Oncorhynchus mykiss/96 h = 2,6 mg/l

EC50/Daphnia magna/24 h = 1 mg/l [OECD 202]

EC50/Pseudokirchneriella subcapitata/72 h = 2,2 mg/l [OECD 201]

Zinc oxide

EC50/Selenastrum capricornutum/72 h = 0,17 mg/l

Butanone

LC50/Pimephales promelas/96 h = 2990 mg/l [OECD 203]

EC50/Daphnia magna/48 h = 308 mg/l [OECD 202]

EC50/Pseudokirchneriella subcapitata/72 h = 1972 mg/l [OECD 201]

Toluene

LC50/Carassius Auratus/96 h = 13 mg/l

EC50/algae/72 h = 12,5 mg/l [OECD 201]

Trizinc bis(orthophosphate)

LC50/Fish/96 h < 5,1 mg/l

EC50/Daphnia magna/48 h < 1,7 mg/l

Ethyl benzene

ErC50/algae/96 h = 3,6 mg/l

### 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.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 10 of 13

#### Further information

Do not flush into surface water or sanitary sewer system.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Where possible recycling is preferred to disposal.

Can be incinerated, when in compliance with local regulations.

##### 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 packagings are to be treated like the product itself.

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

Empty containers should be taken for local recycling, recovery or waste disposal.

### SECTION 14: Transport information

#### Land transport (ADR/RID)

<b>14.1. UN number:</b>	UN 1133
<b>14.2. UN proper shipping name:</b>	Adhesives
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Classification code:	F1
Limited quantity:	5 L / 30 kg
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

#### Inland waterways transport (ADN)

<b>14.1. UN number:</b>	UN 1133
<b>14.2. UN proper shipping name:</b>	Adhesives
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Classification code:	F1
Limited quantity:	5 L / 30 kg
Excepted quantity:	E2

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 11 of 13

#### Marine transport (IMDG)

<b>14.1. UN number:</b>	UN 1133
<b>14.2. UN proper shipping name:</b>	Adhesives
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Marine pollutant:	No
Limited quantity:	5 L / 30 kg
Excepted quantity:	E2
EmS:	F-E, S-D

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

<b>14.1. UN number:</b>	UN 1133
<b>14.2. UN proper shipping name:</b>	Adhesives
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	II
Hazard label:	3



Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 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 48, Entry 75

2004/42/EC (VOC): 60 - 65%

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

##### National regulatory information



# Safety Data Sheet

according to Regulation (EC) No 1907/2006

## TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 12 of 13

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

**Additional information**

@00000000427

**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): 2,3,6,7,9,10,11,12,14.

**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 Regulation (EC) No 1272/2008 [CLP]**

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Acute Tox. 4; H312	Calculation method
Acute Tox. 4; H332	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H335	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Chronic 3; H412	Calculation method

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

H225

Highly flammable liquid and vapour.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### TIP TOP PRIMER PR 304

Revision date: 23.03.2022

Product code: 00156-0211

Page 13 of 13

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### 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.)*