

Safety Data Sheet

according to UK REACH Regulation

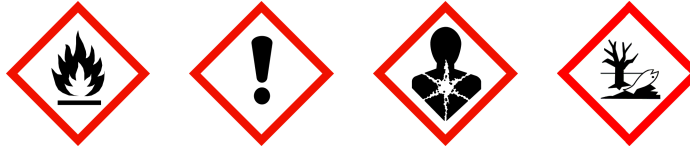
TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 2 of 12

Pictograms:



Hazard statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312+H332	Harmful in contact with skin or if inhaled.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic 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.
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.
P302+P352	IF ON SKIN: Wash with plenty of water.
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.
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

Polymer in organic solvent

**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 3 of 12

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
1330-20-7	Xylene (mixed isomers)			< 100 %
	215-535-7	601-022-00-9	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, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			
1314-13-2	zinc oxide			< 10 %
	215-222-5	030-013-00-7	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
105-11-3	p-benzoquinone dioxime			< 1 %
	203-271-5		01-2120798488-29	
	Flam. Sol. 2, Carc. 2, Muta. 2, Acute Tox. 4, Eye Irrit. 2, Skin Sens. 1A, Aquatic Chronic 2; H228 H351 H341 H302 H319 H317 H411			
3006-93-7	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione			< 1 %
	221-112-8		01-2120756106-57	
	Acute Tox. 2, Acute Tox. 4, Skin Sens. 1A, Aquatic Chronic 2; H330 H302 H317 H411			

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	
1330-20-7	215-535-7	Xylene (mixed isomers)	< 100 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 mg/kg	
1314-13-2	215-222-5	zinc oxide	< 10 %
		Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1	
105-11-3	203-271-5	p-benzoquinone dioxime	< 1 %
		oral: ATE = 500 mg/kg	
3006-93-7	221-112-8	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	< 1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); oral: ATE = 500 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 with soap and plenty of water.
- Possible risk of resorption through skin.
- Consult a doctor if skin irritation persists.



Safety Data Sheet

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 4 of 12

After contact with eyes

- Remove contact lens.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- 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.
- Induce vomiting only upon the advice of 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 damage to organs through prolonged or repeated exposure.
- May cause an allergic skin reaction.
- May be fatal if swallowed and enters airways.

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

- Treat symptoms.
- Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

- Foam, carbon dioxide (CO₂), 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, carbon dioxide, sulphur oxides, and nitrogen oxides (NO_x).

5.3. Advice for firefighters

- Wear self-contained breathing apparatus and protective suit.

Additional information

- Cool containers at risk with water spray jet.
- Flashback at a long distance is possible.
- Vapours are heavier than air and spread along ground.
- The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
- 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

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



Safety Data Sheet

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 5 of 12

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.
Do not discharge into the subsoil/soil.

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).
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.
Keep a good ventilation and air-exhaust at the place of work.
Avoid contact with skin, eyes and clothing.

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.

Advice on general occupational hygiene

Do not inhale vapours.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Avoid contact with skin, eyes and clothing.
Remove and wash contaminated clothes before re-use.

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.

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)

Primer Coat

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 6 of 12

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1330-20-7	Xylene: mixed isomers	50	220		TWA (8 h)	WEL
		100	441		STEL (15 min)	WEL

Biological Monitoring Guidance Values (EH40)

CAS No	Substance	Parameter	Value	Test material	Sampling time
1330-20-7	Xylene, o-, m-, p- or mixed isomers	methyl hippuric acid (creatinine)	650 mmol/mol	urine	Post shift

8.2. Exposure controls**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment**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

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:	Black
Odour:	Aromatic

Changes in the physical state

Melting point/freezing point:	n.d.
Boiling point or initial boiling point and boiling range:	139 °C
Sublimation point:	n.a.
Softening point:	n.d.
Flash point:	25 °C

Flammability

Solid/liquid:	n.a.
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Explosive properties

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

Lower explosion limits:	n.d.
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**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 7 of 12

Upper explosion limits:	n.d.
Auto-ignition temperature:	330 °C
Self-ignition temperature	
Solid:	n.a.
Gas:	n.a.
Decomposition temperature:	n.d.
pH-Value:	n.d.
Viscosity / dynamic:	n.d.
Viscosity / kinematic: (at 40 °C)	< 20,5 mm ² /s
Flow time:	n.d.
Water solubility: (at 20 °C)	Immiscible
Solubility in other solvents	
n.d.	
Partition coefficient n-octanol/water:	n.d.
Vapour pressure: (at 20 °C)	7,48 hPa
Vapour pressure: (at 50 °C)	41,4 hPa
Density (at 20 °C):	0,956 g/cm ³
Bulk density:	n.a.
Relative vapour density:	n.d.

9.2. Other information**Information with regard to physical hazard classes**

Sustained combustibility:	Sustained combustibility
Oxidizing properties	
Not oxidising.	

Other safety characteristics

Solvent separation test:	0 %
Solvent content:	< 100 %
Evaporation rate:	n.d.

Further 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 strong oxidizing agents.

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.

**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 8 of 12

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

Fire may produce:

Carbon monoxide, carbon dioxide, sulphur oxides, and nitrogen oxides (NO_x).**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Harmful if inhaled.

Harmful in contact with skin.

No toxicological data available.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) 1467 mg/kg; ATE (inhalation vapour) 11,60 mg/l; ATE (inhalation dust/mist) 1,471 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye irritation: Causes serious eye irritation.

Sensitising effects

May cause an allergic skin reaction. (p-benzoquinone dioxime; 1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione)

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

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

STOT-single exposure

May cause respiratory irritation. (Xylene (mixed isomers))

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Xylene (mixed isomers))

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

Other information

Inhalation of vapours is irritating to the respiratory system, may cause throat pain and cough.

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

Possible risk of resorption through skin.

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

Attention. Beware, danger of aspiration.

May cause sensitization of susceptible persons by skin contact.

SECTION 12: Ecological information**12.1. Toxicity**

Ecological data are not available.

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Safety Data Sheet

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 9 of 12

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 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.

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

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish 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.
Empty containers should be taken for local recycling, recovery or waste disposal.

SECTION 14: Transport information

Land transport (ADR/RID)

<u>14.1. UN number or ID number:</u>	UN 1133
<u>14.2. UN proper shipping name:</u>	Adhesives
<u>14.3. Transport hazard class(es):</u>	3
<u>14.4. Packing group:</u>	III
Hazard 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)

<u>14.1. UN number or ID number:</u>	UN 1133
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Safety Data Sheet

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 10 of 12

14.2. UN proper shipping name: Adhesives
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

Marine transport (IMDG)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Marine pollutant: Yes
 Limited quantity: 5 L / 30 kg
 Excepted quantity: E1
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1133
14.2. UN proper shipping name: Adhesives
14.3. Transport hazard class(es): 3
14.4. Packing group: III
 Hazard label: 3



Limited quantity Passenger: 10 L
 Passenger LQ: Y344
 Excepted quantity: E1
 IATA-packing instructions - Passenger: 355
 IATA-max. quantity - Passenger: 60 L
 IATA-packing instructions - Cargo: 366
 IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



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.

**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 11 of 12

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

Directive 2004/42/EC on VOC in
paints and varnishes: 76,37 %Information according to Directive
2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information: E2

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**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

**Safety Data Sheet**

according to UK REACH Regulation

TIP TOP PRIMER HG 21

Revision date: 13.03.2025

Product code: 00359-1363

Page 12 of 12

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
Acute Tox. 4; H312	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method
STOT RE 2; H373	Calculation method
Asp. Tox. 1; H304	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H228	Flammable solid.
H302	Harmful if swallowed.
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.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
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.
H411	Toxic to aquatic life with long lasting effects.
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.

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.)