1. Identification

Product identifier

TIP TOP PRIMER HG 1

Art.-No.

525 2949, 525 2956, 525 2963, 525 3050

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Primer Coat

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

Emergency phone number: INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
(USA domestic) 1 800 535 5053 or international (001) 352 323 3500
Infotrac/GBK GmbH-ID: 93591a

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 2
Acute toxicity: Acute Tox. 4 (inhalation)
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Respiratory or skin sensitization: Skin Sens. 1
Germ cell mutagenicity: Muta. 2
Carcinogenicity: Carc. 2
Reproductive toxicity: Repr. 2
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects) (respiratory tract irritation)
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2
Hazardous to the aquatic environment: Aquatic Chronic 3

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:

Hazard statements

Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause an allergic skin reaction
Suspected of causing genetic defects
Suspected of damaging the unborn child
May cause respiratory irritation

May cause damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
If exposed or concerned: Get medical advice/attention.
Store in a well-ventilated place. Keep cool.
Wear protective gloves/protective clothing/eye protection/face protection.

Hazards not otherwise classified

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.
Vapours may form explosive mixture with air.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Preparation with polymers in xylene and 4-methylpentan-2-one

Hazardous components

CAS No	Components	Quantity
108-10-1	4-Methylpentan-2-one	60 - 65 %
	Reaction mass of ethylbenzene and xylene	5 - 10 %
9003-35-4	phenol resin	1 - 5 %
13463-67-7	titanium dioxide	1,0 - 5,0 %
108-95-2	Phenol	1,0 - 2,99 %
108-88-3	Toluene	0,1 - 0,99 %

Further Information

Note: 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.

4. First-aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.
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.

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.

Most important symptoms and effects, both acute and delayed

Harmful if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause irritation of the respiratory tract.
May cause drowsiness or dizziness.
Suspected of causing genetic defects.
Suspected of causing cancer.
Suspected of damaging the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam, carbon dioxide (CO2), dry chemical, water-spray.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the chemical

Fire may produce:
carbon monoxide and carbon dioxide
Hydrogen chloride (HCl)

Special protective equipment and precautions for fire-fighters

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.

6. Accidental release measures

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.

For emergency responders

In case of vapour formation use respirator.

Use personal protective clothing.

Environmental precautions

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

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.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).
Information for disposal look up chapter 13.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Do not wear contact lenses when handling the product.
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.

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.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
100-41-4	Ethyl benzene	100	435		TWA (8 h)	PEL
		100	435		TWA (8 h)	REL
		125	545		STEL (15 min)	REL
100-41-4	Ethyl benzene	20			TWA (8 h)	ACGIH-2024
108-10-1	Hexone (Methyl isobutyl ketone)	100	410		TWA (8 h)	PEL
108-10-1	Hexone	50	205		TWA (8 h)	REL
		75	300		STEL (15 min)	REL
108-95-2	Phenol	5	19		TWA (8 h)	PEL
		5	19		TWA (8 h)	REL
		C 15.6	C 60		15 min	REL
108-95-2	Phenol	5	19		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	PEL
13463-67-7	Titanium dioxide: Finescale particles (Respirable particulate matter)		0.2		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide: Nanoscale particles (Respirable particulate matter)		0.2		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide				as low as possible	REL
108-88-3	Toluene	200	-		TWA (8 h)	PEL
		C 300	-		Ceiling	PEL
		500	-		Peak (10 min)	PEL
108-88-3	Toluene	100	375		TWA (8 h)	REL
		150	560		STEL (15 min)	REL
108-88-3	Toluene	20	-		TWA (8 h)	ACGIH-2024
-	Wood dusts (inhalable fraction): All other species/All other wood dusts		1		TWA (8 h)	ACGIH-2024
1330-20-7	Xylene: mixed isomers	20			TWA (8 h)	ACGIH-2024
1330-20-7	Xylenes (o-,m-,p-isomers)	100	435		TWA (8 h)	PEL
1314-13-2	Zinc oxide (Dust)	-	5		TWA (8 h)	REL
		-	C 15		Ceiling	REL
1314-13-2	Zinc oxide (respirable fraction)		2		TWA (8 h)	ACGIH-2024
			10		STEL (15 min)	ACGIH-2024
1314-13-2	Zinc oxide Respirable fraction	-	5		TWA (8 h)	PEL

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
108-10-1	METHYL ISOBUTYL KETONE	Methyl isobutyl ketone	1 mg/L	urine	End of shift
1330-20-7	XYLENES (technical or commercial grade)	Methylhippuric acids (creatinine)	0.3 g/g	urine	End of shift
108-95-2	PHENOL	Phenol (with hydrolysis, creatinine)	250 mg/g	urine	End of shift
108-88-3	TOLUENE	Toluene	0.02 mg/L	blood	Prior to last shift of workweek

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.
Eye wash bottle with pure water.

Hand protection

Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0.7 mm, Permeation resistance (wear duration) approx. 480 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.
Pls. find examples in the GISBAU protective gloves database under:
http://www.wingisonline.de/handschuhe/frmMain.aspx

Skin protection

Solvent-resistant apron.

Respiratory protection

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

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Grey
Odor:	Characteristic

		Test method
Changes in the physical state		
Melting point/freezing point:	n.d.	
Boiling point or initial boiling point and boiling range:	n.d.	
Sublimation point:	n.d.	
Softening point:	n.d.	
Pour point:	n.d.	
Flash point:	17 °C	DIN 53213
Flammability		
Solid/liquid:	n.a.	
Explosive properties		
The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.		
Lower explosion limits:	1,4 vol. %	*)
Upper explosion limits:	7,5 vol. %	*)
Auto-ignition temperature:	460 °C	*)
Self-ignition temperature		
Solid:	n.a.	
Gas:	n.a.	
Decomposition temperature:	n.d.	
pH-Value:	n.d.	

Viscosity / dynamic: (at 25 °C)	90 - 170 mPa·s	Brookfield
Viscosity / kinematic: (at 40 °C)	> 20 mm²/s	
Flow time:	n.d.	
Water solubility: (at 20 °C)	Immiscible	
Partition coefficient n-octanol/water:	n.d.	
Vapor pressure:	n.d.	
Density (at 20 °C):	0,92 - 0,96 g/cm³	
Bulk density:	n.a.	
Relative vapour density:	n.d.	

Other information

Information with regard to physical hazard classes

Sustaining combustion: Sustaining combustion

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:	n.d.
Solvent content:	n.d.
Evaporation rate:	n.d.

Further Information

*) 4-Methylpentan-2-one

10. Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stability: Stable

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

Reactions with strong oxidizing agents.

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.

Incompatible materials

Strong oxidizing agents

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
Hydrogen chloride (HCl)

11. Toxicological information

Route(s) of Entry

Skin and eye contact, inhalation and ingestion.

Information on toxicological effects

Acute toxicity

Harmful if inhaled
No toxicological data available.
ATEmix/oral: > 5000 mg/kg
ATEmix/dermal: > 5000 mg/kg
ATEmix/inhalation: ~ 13 mg/l/4 h

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) 14,37 mg/l; ATE (inhalation dust/mist) 2,000 mg/l

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation
Serious eye damage/eye irritation: Causes serious eye irritation

Sensitizing effects

May cause an allergic skin reaction (phenol resin)

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing genetic defects (Phenol)
Suspected of causing cancer (4-Methylpentan-2-one; titanium dioxide)
Suspected of damaging fertility or the unborn child (Toluene)

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (4-Methylpentan-2-one)
May cause drowsiness or dizziness (4-Methylpentan-2-one)

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (Phenol)

Carcinogenicity (IARC): Methyl isobutyl ketone (CAS 108-10-1) is listed in group 2B. Phenol (CAS 108-95-2) is listed in group 3. Toluene (CAS 108-88-3) is listed in group 3.

Aspiration hazard

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

Additional information on tests

This product is classified in accordance with the GHS regulations.

Information on other hazards

Endocrine disrupting properties

No data available

Other information

Inhalation of high vapour concentration may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
May cause irritation of the mucous membranes.
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
Possible risk of resorption through skin.

12. Ecological information

Ecotoxicity

Ecological data are not available.
Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

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.

Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Where possible recycling is preferred to disposal.
Can be incinerated, when in compliance with local regulations.

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.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:	UN 1133
Proper shipping name:	Adhesives
Transport hazard class(es):	3
Packing group:	II
Hazard label:	3

Marine transport (IMDG)

UN number or ID number:	UN 1133
UN proper shipping name:	Adhesives
Transport hazard class(es):	3
Packing group:	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)

UN number or ID number:	UN 1133

UN proper shipping name:	Adhesives
Transport hazard class(es):	3
Packing group:	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

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 302 Extremely hazardous substances:

Phenol (108-95-2): Reportable quantity = 1,000 lbs., Threshold planning quantity = 500/10,000 lbs.

SARA Section 304 CERCLA:

Methyl isobutyl ketone (108-10-1): Reportable quantity = 5,000 (2270) lbs. (kg)
Xylene (mixed isomers) (1330-20-7): Reportable quantity = 100 (45.4) lbs. (kg)
Phenol (108-95-2): Reportable quantity = 1,000 (454) lbs. (kg)
Toluene (108-88-3): Reportable quantity = 1,000 (454) lbs. (kg)
Ethylbenzene (100-41-4): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Methyl isobutyl ketone (108-10-1): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard
Xylene (mixed isomers) (-): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard
phenol resin (9003-35-4): Immediate (acute) health hazard
titanium dioxide (13463-67-7): Delayed (chronic) health hazard
Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) health hazard
Toluene (108-88-3): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

SARA Section 313 Toxic release inventory:

Methyl isobutyl ketone (108-10-1): De minimis limit = 1.0 %, Reportable threshold = Standard
Xylene (mixed isomers) (1330-20-7): De minimis limit = 1.0 %, Reportable threshold = Standard
Phenol (108-95-2): De minimis limit = 1.0 %, Reportable threshold = Standard
Toluene (108-88-3): De minimis limit = 1.0 %, Reportable threshold = Standard
Ethylbenzene (100-41-4): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Methyl isobutyl ketone (108-10-1), Xylene (mixed isomers) (1330-20-7), Phenol (108-95-2), Toluene (108-88-3), Ethylbenzene (100-41-4)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Methyl isobutyl ketone (MIBK) (cancer, developmental); Toluene (developmental); Formaldehyde (gas) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Hazardous Materials Identification System (HMIS)

Health:	2
Flammability:	2
Physical Hazard:	0

NFPA Hazard Ratings

Health:	2
Flammability:	2
Reactivity:	0
Unique Hazard:	

Changes

Revision date:	03.12.2024
Revision No:	1,6

This data sheet contains changes from the previous version in section(s): 2,3,4,8,12.

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

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

Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.
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.)