

Safety Data Sheet

Material: 60003263

WACKER® PRIMER G 790

Version: 1.10 (IN)

Date of print: 24.08.2020

Date of last alteration: 25.05.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Commercial product name: WACKER® PRIMER G 790****1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of substance / preparation:
Industrial.
primer .**1.3 Details of the supplier of the safety data sheet**Manufacturer/distributor: Wacker Chemie AG
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 München
Telephone: +49 89 6279-0
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Telefax +49 8677 886-9722
eMail WLCP-MSDS@wacker.com**1.4 Emergency telephone number****Emergency Information: +65 3158 1198****SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Hazard class	Hazard category	Route of exposure	H-Code
Long-term (chronic) aquatic hazard	Category 2		H411
Aspiration hazard	Category 1		H304
Specific target organ toxicity - single exposure	Category 3		H336
Reproductive toxicity	Category 2		H361d
Serious eye damage/eye irritation	Category 1		H318
Skin corrosion/irritation	Category 2		H315
Flammable liquids	Category 2		H225

2.2 Label elements

Pictogram(s):



Signal Word: Danger

H-Code	Hazard Statements
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.

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P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection.
P273	Avoid release to the environment.
P243	Take action to prevent static discharges.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P331	Do NOT induce vomiting.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/ doctor.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/ doctor if you feel unwell.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P370 + P378	In case of fire: Use extinguishing powder, alcohol-resistant foam or carbon dioxide to extinguish.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container to waste disposal.

Hazard ingredients (labelling):

C7 - C9 Isoalkanes

Titanium tetrabutanolat

Toluene

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 6,7 %.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

not applicable

3.2 Mixtures**3.2.1 Chemical characteristics**

silane and siloxane with functional groups + auxiliary + solvent

3.2.2 Hazardous ingredients

Type	CAS No.	Substance	Content %
INHA	90622-56-3	C7 - C9 Isoalkanes	>75
INHA	5593-70-4	Titanium tetrabutanolat	<10
INHA	108-88-3	Toluene	>3 – <5
INHA	78-10-4	Tetraethyl silicate	<2

Type: INHA: ingredient, VERU: impurity

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes and seek medical advice.

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After contact with the skin:

Wash with plenty of water or soap and water; immediately remove all contaminated clothing. Seek medical advice and clearly identify substance.

After inhalation:

Move to fresh air, keep the victim laying down and restful. If breathing has stopped, give artificial respiration. Seek medical advice and clearly identify substance. Administer oxygen in case of breathing difficulties. If unconscious place in stable sideways position.

After swallowing:

Seek medical advice and clearly identify substance. Do not induce vomiting. Danger of aspiration.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide .

Extinguishing media which must not be used for safety reasons:

water jet .

5.2 Special hazards arising from the substance or mixture

Heavy soot formation during combustion.

5.3 Advice for firefighters**Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Keep unprotected persons away. Wear personal protection equipment (see section 8). Avoid inhaling mists and vapours. Avoid contact with eyes and skin.

6.2 Environmental precautions

Prevent material from entering sewers or surface waters. Inform authorities if substance leaks into surface waters, sewerage or ground. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers.

Further information:

Eliminate all sources of ignition.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

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Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:

Cool endangered containers with water. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

7.2 Conditions for safe storage, including any incompatibilities**Conditions for storage rooms and vessels:**

Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials:

none known

Further information for storage:

Protect against moisture. Keep container tightly closed and store in a cool, well ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

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8.2 Exposure controls**8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Do not eat, drink or smoke when handling. Do not breathe vapours. Avoid contact with eyes and skin.

Personal protection equipment:**Respiratory protection**

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.

Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

protective goggles .

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of fluorinated rubber

thickness of the material: > 0,7 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of 5-layer laminate of PE and EVOH (4H)

thickness of the material: > 0,062 mm

Breakthrough time: > 480 min

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Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

8.3 Further information for system design and engineering measures

Observe information in section 7.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Appearance		
Physical state	liquid	
Colour	yellowish	
Odour		
Odour	faint	
Odour limit		
Odour limit	no data available	
pH-Value		
pH-Value	not applicable	
Melting point/freezing point		
Melting point / melting range	not applicable	
Initial boiling point and boiling range		
Boiling point / boiling range	116 - 142 °C at 1013 hPa	(not specified)
Flash point		
Flash point	3 °C	(ISO 13736)
Evaporation rate		
Evaporation rate	no data available	
Upper/lower flammability or explosive limits		
Lower explosion limit (LEL)	0,9 Vol-%	
Upper explosion limit (UEL)	7,0 Vol-%	
Vapour pressure		
Vapour pressure	50 hPa / 25 °C	(EU-GL.A.4)
Solubility(ies)		
Water solubility / miscibility	virtually insoluble	
Vapour density		
Relative gas/vapour density	No data known.	
Relative Density		
Relative Density	0,76 (23 °C; 1013 hPa) (Water / 4 °C = 1,00)	(DIN 51757)
Density	0,76 g/cm ³ (23 °C; 1013 hPa)	(DIN 51757)
Partition coefficient: n-octanol/water		
Partition coefficient: n-octanol/water	No data known.	
Auto-ignition temperature		
Ignition temperature	370 °C	(EN 14522)
Decomposition temperature		
Thermal decomposition	not applicable	
Viscosity		
Viscosity (dynamic)	0,76 mPa.s at 23 °C	(not specified)
Viscosity (kinematic)	1 mm ² /s	(DIN 51562-1)
Molecular mass		
Molecular mass	not applicable	

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9.2 Other information

Explosion limits for released ethanol: 3.5 - 15%(V).

SECTION 10: Stability and reactivity

10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

Moisture.

10.5 Incompatible materials

Reacts with: acids , water and alkalis . The reaction takes place with the formation of alcohols.

10.6 Hazardous decomposition products

If stored and handled properly: none known. Butanol and ethanol under the effect of humidity.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Acute toxicity estimate (ATE):

ATE_{mix} (Oral): > 5000 mg/kg

Data on substances:

Toluene:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: 5580 mg/kg	Rat	ECHA
dermal	LD50: 12400 mg/kg	Rabbit	ECHA
by inhalation (vapour)	LC50: 28,1 mg/l; 4 h	Rat	ECHA

11.1.3 Skin corrosion/irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Toluene:

Result/Effect	Species/Test system	Source
irritating	Rabbit	ECHA OECD 404

11.1.4 Serious eye damage / eye irritation

Assessment:

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

Toluene:

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Result/Effect	Species/Test system	Source
not irritating	Rabbit	ECHA OECD 405

11.1.5 Respiratory or skin sensitization**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Toluene:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	Guinea pig; Maximisation Test	ECHA OECD 406

11.1.6 Germ cell mutagenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Toluene:**

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) mouse lymphoma cells	ECHA OECD 476
negative	mutation assay (in vitro) bacterial cells	ECHA OECD 471
negative	chromosome aberration assay (in vivo) rat intraperitoneal; bone marrow cells	ECHA

11.1.7 Carcinogenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Reproductive toxicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances**Toluene:**

The substance can possibly impair the unborn child in humans.

11.1.9 Specific target organ toxicity (single exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:**Toluene:**

Route of exposure	Result/Effect	Source
by inhalation	Target organs: Central nervous system Vapours may be narcotising.	ECHA

11.1.10 Specific target organ toxicity (repeated exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

Data on substances:

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Toluene:

Target organs in animal experiments: Central nervous system.

11.1.11 Aspiration hazard**Assessment:**

In case an aspiration hazard is based on ingredients, this can be seen from the classification and labeling of the whole product.

Data on substances:**Toluene:**

Product can pose an aspiration hazard.

11.1.12 Further toxicological information

According to literature aliphatic hydrocarbons are slightly irritating to the skin and mucuous membranes and have a skin drying and narcotic effect. If the lungs are directly affected (e.g. by aspiration), inflammation of the lungs may occur. According to documentation n-butanol (71-36-3) is irritating to mucous membranes, slightly irritating to skin, degreases skin, has narcotic effects. Hydrolysis product / impurity: Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

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

No data known.

Data on substances:

Data derived for the product as a whole are of higher priority than data for single ingredients.

Toluene:

Result/Effect	Species/Test system	Source
LC50: 5,5 mg/l (measured)	dynamic Coho salmon (<i>Oncorhynchus kisutch</i>) (96 h)	ECHA
EC50: 3,78 mg/l (measured)	semistatic Daphnia (48 h)	ECHA
EC50 (photosynthesis): 134 mg/l (nominal)	algae (3 h)	ECHA

12.2 Persistence and degradability**Assessment:**

No data known.

Data on substances:**Toluene:**

Readily biodegradable.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

12.4 Mobility in soil**Assessment:**

No data known.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

none known

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Material

Recommendation:

Dispose of according to regulations by incineration in a special waste incinerator. Observe local/state/federal regulations.

13.1.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Uncleaned packaging should be treated with the same precautions as the material.

SECTION 14: Transport information

14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.2 Proper Shipping Name: Entzündbarer flüssiger Stoff, n.a.g. (enthält C7-C9 Isoalkane, Titantetrabutanolat)

14.3 Class: 3

14.4 Packaging Group: II

Railway RID:

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.2 Proper Shipping Name: Entzündbarer flüssiger Stoff, n.a.g. (enthält C7-C9 Isoalkane, Titantetrabutanolat)

14.3 Class: 3

14.4 Packaging Group: II

Transport by sea IMDG-Code:

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.2 Proper Shipping Name: Flammable liquid, n.o.s. (contains C7-C9 Isoalkanes, Titanium tetrabutanolate)

14.3 Class: 3

14.4 Packaging Group: II

Air transport ICAO-TI/IATA-DGR:

Valuation: Dangerous Goods

14.1 UN no.: 1993

14.2 Proper Shipping Name: Flammable liquid, n.o.s. (contains C7-C9 Isoalkanes, Titanium tetrabutanolate)

14.3 Class: 3

14.4 Packaging Group: II

14.5 Environmental hazards

Hazardous to the environment: yes

Marine Pollutant (IMDG): yes

14.6 Special precautions for user

Relevant information in other sections has to be considered.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Bulk transport in tankers is not intended.

SECTION 15: Regulatory information

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

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

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15.2 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

- Japan : **ENCS** (Handbook of Existing and New Chemical Substances):
This product is listed in, or complies with, the substance inventory.
- New Zealand : **NZIoC** (New Zealand Inventory of Chemicals):
This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
- Australia : **AICS** (Australian Inventory of Chemical Substances):
This product is listed in, or complies with, the substance inventory.
- China..... : **IECSC** (Inventory of Existing Chemical Substances in China):
This product is listed in, or complies with, the substance inventory.
- Canada : **DSL** (Domestic Substance List):
This product is listed in, or complies with, the substance inventory.
- Philippines..... : **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):
This product is listed in, or complies with, the substance inventory.
- United States of America (USA)..... : **TSCA** (Toxic Substance Control Act Chemical Substance Inventory):
All components of this product are listed as active or are in compliance with the substance inventory.
- Taiwan : **TCSI** (Taiwan Chemical Substance Inventory):
This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
- European Economic Area (EEA)..... : **REACH** (Regulation (EC) No 1907/2006):
General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
- South Korea (Republic of Korea) : **AREC** (Act on Registration and Evaluation of Chemicals; "K-REACH"):
General note: in case of registration obligations for substances or polymers imported into Korea or manufactured within Korea these are fulfilled by the supplier mentioned in section 1. The registration obligations for substances or polymers imported into Korea by customers or other downstream users must be fulfilled by the latter.

SECTION 16: Other information**16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Classification	Rationale:
Long-term (chronic) aquatic hazard, Category 2	Calculation method

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Aspiration hazard, Category 1	Calculation method
Specific target organ toxicity - single exposure, Category 3	Calculation method
Reproductive toxicity, Category 2	Calculation method
Serious eye damage/eye irritation, Category 1	Calculation method
Skin corrosion/irritation, Category 2	Calculation method
Flammable liquids, Category 2	On basis of test data.

- End of Safety Data Sheet -