

Safety Data Sheet

Material: 60003263

WACKER® PRIMER G 790

Version: 1.10 (CA)

Date of print: 08/24/2020

Date of last alteration: 06/03/2020

1. Identification**1.1 Identification of the substance or preparation:**

Commercial product name: **WACKER® PRIMER G 790**
Product group: Primer
Use of substance / preparation: Industrial primer .

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemie AG
Hanns-Seidel-Platz 4
81737 München
Germany

Customer information: Wacker Chemical Corporation
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
InfoLine:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h): **+1 646 844 7309**

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Hazard identification**2.1 Classification of the substance or mixture****Classification (GHS):**

Hazard class	Hazard category	Route of exposure	H-Code
Specific target organ toxicity - repeated exposure	Category 2		H373
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**Labelling (GHS):**

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.
H373	May cause damage to organs through prolonged or repeated exposure.

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P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
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 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container to waste disposal.

2.3 Other hazards

No data available.

3. Composition/Information on ingredients**3.1 Chemical characterization (preparation)**

Chemical characteristics

silane and siloxane with functional groups+auxiliary+solvent

3.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	90622-56-3	C7 - C9 Isoalkanes	>75.0		
INHA	5593-70-4	Organotitanium compound		<10.0	
INHA	108-88-3	Toluene	>3.0	<5.0	R
INHA	78-10-4	Ethyl silicate		<2.0	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non-hazardous, R - reproductive toxin.

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

4. First-aid measures**4.1 General information:**

Get medical attention immediately. Before seeking medical attention remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.

4.2 After inhalation

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

4.3 After contact with the skin

For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water.

4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing

If swallowed, do not induce vomiting. Danger of aspiration. Get medical attention immediately. Show label if possible.

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5. Fire-fighting measures

5.1 Fire and explosion hazards:

Warning! Flammable liquid and vapor. Consider possible formation of explosive mixtures with air, for example in uncleaned containers. Material decomposes under fire conditions giving off toxic materials. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Electrostatic charging is possible.

5.2 Recommended extinguishing media:

carbon dioxide , dry chemical or alcohol-resistant foam .

5.3 Unsuitable extinguishing media:

Water.

5.4 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Heavy soot formation during combustion.

5.5 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

6. Accidental release measures

6.1 Precautions:

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

6.2 Containment:

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 for 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.

6.4 Further information:

Eliminate all sources of ignition.

7. Handling and storage

7.1 Handling

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 Storage

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.

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8. Exposure controls/Personal protection**8.1 Engineering controls****Ventilation:**

General ventilation sufficient to provide 1 CFM per square foot of floor area or 6 room air exchanges per hour is recommended.

Local exhaust:

To control flammable/combustible vapors: Local exhaust ventilation which meets the requirements of ANSI Z9.2 is recommended to control airborne contaminants at the point of use. (to maintain concentration below TLV)

8.2 Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace:**

CAS No.	Substance	Type	mg/m ³	ppm	Dust fract.
108-88-3	Toluene	OSHA PEL		200.0	
78-10-4	Tetraethyl silicate	OSHA PEL	850.0	100.0	
71-36-3	1-Butanol	OSHA PEL	300.0	100.0	
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	
108-88-3	Toluene	ACGIH TWA		20.0	
78-10-4	Tetraethyl silicate	ACGIH TWA		10.0	
71-36-3	1-Butanol	ACGIH TWA		20.0	

Re Toluene (CAS-no. 108-88-3): carcinogenicity: A4 (ACGIH); ceiling is 300 ppm, maximum peak is 500 ppm for a duration of 10 minutes (OSHA Table Z-2).

Re 1-Butanol (CAS-no. 71-36-3): ceiling is 50 ppm, skin notation (NIOSH).

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

8.3 Personal protection equipment (PPE)**Respiratory protection:**

Recommendation in case of long or strong exposure: A NIOSH approved air purifying respirator equipped with universal multi-contaminant multi-gas/vapor cartridges is recommended if overexposure to chemical vapors could occur.

Hand protection:

neoprene or nitrile rubber gloves or Viton rubber or Silvershield / 4H laminate gloves .

Eye protection:

Safety glasses with side shields or chemical safety goggles. Where there is risk of splashing: tight fitting chemical safety goggles .

Other protective clothing or equipment:

Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. When handling do not eat, drink, smoke or apply cosmetics. Wash thoroughly after handling.

9. Physical and chemical properties**9.1 Appearance**

Physical state: liquid
 Colour: yellowish
 Odour: faint

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range	not applicable	
Boiling point / boiling range	116 - 142 °C (241 - 288 °F) at 1013 hPa	(not specified)
Flash point.....	3 °C (37 °F)	(ISO 13736)
Ignition temperature	370 °C (698 °F)	(EN 14522)
Lower explosion limit (LEL)	0.9 %(V)	
Upper explosion limit (UEL).....	7.0 %(V)	
Vapour pressure.....	50 hPa / 25 °C (77 °F)	(EU-GL.A.4)

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Density	0.76 g/cm ³ at 23 °C (73 °F), at 1013 hPa	(DIN 51757)
Water solubility / miscibility.....	virtually insoluble	
pH-Value	not applicable	
Viscosity (dynamic)	0.76 mPa.s at 23 °C (73 °F)	(not specified)
Viscosity (kinematic)	1 mm ² /s	(DIN 51562-1)

9.3 Further information

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

Odour limit..... : no data available

VOC

(calculated value)

Thermal decomposition..... : not applicable

10. Stability and reactivity

10.1 General information:

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

10.2 Conditions to avoid

Moisture.

10.3 Materials to avoid

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

10.4 Hazardous decomposition products

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

10.5 Further information:

Hazardous polymerization cannot occur.

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:

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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:**

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.

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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:**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

Other 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, degrades 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.

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.

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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

13. Disposal considerations**13.1 Product disposal****Recommendation:**

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

13.2 Packaging disposal**Recommendation:**

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

14. Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation: Dangerous Goods
 Proper Shipping Name: Flammable liquid, n.o.s.
 Technical name: (contains C7-C9 Isoalkanes, Titanium tetrabutanolate)
 Class: 3
 UN no.: 1993
 Packaging Group: II
 Label: **TL:flammable liquid/3
 NAERG Guide: 128
 Other Information: The Fish & Tree marine pollutant mark is required on bulk containers in ground transportation, and on both bulk and non-bulk containers when shipping by water.

14.2 Transport by sea IMDG-Code

Valuation: Dangerous Goods
 Class: 3
 Packaging Group: II
 UN no.: 1993
 Proper Shipping Name: Flammable liquid, n.o.s.
 Technical name: (contains C7-C9 Isoalkanes, Titanium tetrabutanolate)
 EmS No.: F-E, S-E
 Marine Pollutant: yes

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Dangerous Goods
 Class: 3
 UN no.: 1993
 Proper Shipping Name: Flammable liquid, n.o.s.
 Technical name: (contains C7-C9 Isoalkanes, Titanium tetrabutanolate)
 Packaging Group: II

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15. Regulatory information**15.1 Canadian regulations**

This product has been classified according to the hazard criteria of the Hazard Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List.

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.

16. Other information**16.1 Additional information:**

This product has been classified according to the hazard criteria of the Hazard Products Regulations (HPR) and the SDS contains all of the information required by the HPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all

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applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

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.

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16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists
 DOT - Department of Transportation
 hPa - Hectopascals
 mPa*s - Milli Pascal-Seconds
 OSHA - Occupational Safety and Health Administration
 PEL - Permissible Exposure Limit

ppm - Parts per Million
 SARA - Superfund Amendments and Reauthorization Act
 STEL - Short Term Exposure Limit
 TSCA - Toxic Substances Control Act
 TWA - Time Weighted Average
 WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods

ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

Common name**16.3 Conversion table:**

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
 Viscosity:.....: 1 mPa*s = 1 centipoise (cP)