WACKER

SAFETY DATA SHEET

Material: 60011000 **WACKER® CATALYST T 51**

Version 2.7 (US) Print Date 01/20/2026 Date of last alteration: 01/17/2025

1. Product and company identification

1.1 Identification of the substance or preparation:

Trade name **WACKER® CATALYST T 51**
Product group: R&D Material

Use of the Substance/Mixture: Industrial. Commercial.
Intermediate chemical

1.2 Company/undertaking identification:

Manufacturer/distributor:
Wacker Chemie AG
Gisela-Stein-Straße 1
81671 München
Germany

Customer information:
Wacker Chemical Corporation
4950 S State Road
Ann Arbor, MI 48108
InfoLine:
Tel (517) 264-8240
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h): **(517) 264-8500**

Transportation emergency:
(800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

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

2. Hazards identification

2.1 Classification of the substance or mixture

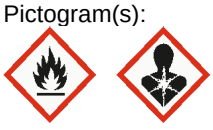
GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200):

Classification	H-Code
Flammable liquids, Category 3	H226
Reproductive toxicity, Category 2	H361d
Specific target organ toxicity - repeated exposure, Category 1 (thymus)	H372
Long-term (chronic) aquatic hazard, Category 3	H412
Short-term (acute) aquatic hazard, Category 3	H402

2.2 Label elements

GHS-Labelling:

Pictogram(s):



Signal word: Danger

H-Code	Hazard statements
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs (thymus) through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

P-Code	Precautionary statements
P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P314	Get medical advice/ attention if you feel unwell.
P405	Store locked up.
P501	Dispose of contents/container to waste disposal.

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 73.2 %.

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 66.5 %.

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 73.2 %.

2.3 Other hazards

No data available.
Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. Composition/information on ingredients

3.1 Chemical characterization (preparation)

Chemical characterization
Organotin compound+Silicic acid ester+auxiliary

3.2 Information on ingredients:

Type	CAS-No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	682-01-9	Tetrapropyl orthosilicate	>=20.0	<25.0	
INHA		Base oil - unspecified	>=5.0	<10.0	
INHA	93925-43-0	Silicic acid (H4SiO4), tetraethyl ester, reaction products with bis(acetyloxy)dioctylstannane	>=3.0	<5.0	R
INHA	64742-55-8	Hydrotreated light paraffinic petroleum distillates	>=1.0	<5.0	
INHA	68299-15-0	Bis(neodecanoyloxy)dioctylstannane	>=1.0	<5.0	
INHA	70024-69-0	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	>=0.1	<1.0	

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.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

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

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

4.3 In case of skin contact

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 In case of eye contact

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

4.5 If swallowed

If swallowed, do not induce vomiting. If conscious, have them rinse their mouth with water but do not give anything to drink. Danger of aspiration. Get medical attention immediately. Designate the product. Show label if possible.

5. Fire-fighting measures

5.1 Flammable properties:

Property:		Value:	Method:
Flash point	:	45 °C (113 °F)	(DIN 51755)
Sustained combustibility	:	> 110 °C (> 230 °F)	(ISO 9038)
Boiling point/boiling range	:	exempt	
Lower explosion limit	:	not determined	
Upper explosion limit	:	not determined	
Ignition temperature	:	270 °C (518 °F)	(DIN 51794)
NFPA Hazard Class (comb./flam.liquid)	:	II	

5.2 Fire and explosion hazards:

Caution! OSHA Combustible liquid and vapor. As a result of hydrolysis flammable vapors may accumulate in the container head space. Never use welding or cutting torch on or near any container of this material, even if empty, because an explosion could occur. Material decomposes under fire conditions giving off toxic materials. Heating leads to increased pressure and bursting of the container.

5.3 Recommended extinguishing media:

dry sand , carbon dioxide , dry chemical or alcohol-resistant foam .

5.4 Unsuitable extinguishing media:

Water.

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

Hazardous combustion products: tin dioxide , silicon dioxide , carbon dioxide , carbon monoxide and incompletely burnt hydrocarbons .

5.6 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:

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

HAZWOPER PPE Level: C

6.2 Containment:

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

6.4 Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

7. Handling and storage

7.1 General information:

Avoid exposure by technical measures or personal protective equipment.

7.2 Handling

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ. Spilled substance increases risk of slipping. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Observe information in section 8. Keep away from incompatible substances in accordance with section 10.

Precautions against fire and explosion:
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. Cool endangered containers with water.

7.3 Storage

Conditions for storage rooms and vessels:
Observe local/state/federal regulations.

Advice for storage of incompatible materials:
Observe local/state/federal regulations.

Further information for storage:
Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

8. Exposure controls and personal protection

8.1 Engineering controls

Ventilation:
Use only with adequate ventilation.

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.

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

Substance	Type	mg/m³	ppm	Dust fract.
Tin compounds (organic)	OSHA PEL	0.1		
Oil mist, mineral	OSHA PEL	5.0		
Tin compounds (organic)	ACGIH TWA	0.1		

Re Tin compounds (organic): STEL is 0,2 mg/m3, skin notation (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. If eye-irritating dusts or vapors are present, a full-face respirator should be worn.

Hand protection:
butyl rubber protective 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. Wash thoroughly after handling. Follow standard industrial hygiene practices when using this material.

9. Physical and chemical properties

9.1 Appearance

Physical state	:	liquid
Colour	:	red brown
Odour	:	faint

9.2 Safety data

Property:		**Value:**	**Method:**
Melting point	:	not determined	
Boiling point/boiling range	:	exempt	
Flash point	:	45 °C (113 °F)	(DIN 51755)
Sustained combustibility	:	> 110 °C (> 230 °F)	(ISO 9038)
Ignition temperature	:	270 °C (518 °F)	(DIN 51794)
Lower explosion limit	:	not determined	
Upper explosion limit	:	not determined	
Vapour pressure	:	not determined	
Density	:	0.92 g/cm³ at 25 °C (77 °F), at 1013 hPa	(DIN 12791)
Water solubility	:	practically insoluble	
Solubility in other solvents	:	totally miscible with common organic solvents	
pH	:	Not applicable. Insoluble in water.	
Partition coefficient: n-octanol/water	:	not applicable	
Viscosity, dynamic	:	50 mPa.s at 23 °C (73 °F)	
Viscosity, kinematic	:	27 mm²/s at 40 °C (104 °F)	(DIN 53019)

9.3 Further information

Hydrolysis products reduce the flash point.

Odour Threshold	:	no data available
Thermal decomposition	:	300 °C (572 °F)

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, heat, open flames, and other sources of ignition.

10.3 Materials to avoid

Reacts with water, basic substances and acids. The reaction takes place with the formation of alcohols.

10.4 Hazardous decomposition products

If stored and handled properly: none known. Alcohols under the effect of humidity, water and protic agents.

10.5 Further information:

Hazardous polymerization cannot occur.
Conditions to avoid hazardous polymerization: None known.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 Acute toxicity

Assessment:

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

Acute toxicity estimate (ATE):
ATE_{mix} (by inhalation / dust/mist): > 5 mg/l/4 h
ATE_{mix} (Oral): > 2000 mg/kg

11.1.2 Skin corrosion/irritation

Assessment:

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

11.1.3 Serious eye damage/eye irritation

Assessment:

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

11.1.4 Respiratory or skin sensitisation

Assessment:

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

11.1.5 Germ cell mutagenicity

Assessment:

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

11.1.6 Carcinogenicity

Assessment:

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

11.1.7 Reproductive toxicity

Assessment:

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

11.1.8 Specific target organ toxicity - single exposure

Assessment:

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

11.1.9 Specific target organ toxicity - repeated exposure

Assessment:

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

11.1.10 Aspiration hazard

Assessment:

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

11.1.11 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.1.12 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: None known.

12. Ecological information

12.1 Toxicity

Assessment:

No data known.

12.2 Persistence and degradability

Assessment:

Contact with water liberates propanol and silanol- and/or siloxanol-compounds. Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. The hydrolysis product (propanol) is readily biologically degradable.

12.3 Bioaccumulative potential

Assessment:

No data known.

12.4 Mobility in soil

Assessment:

No data known.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

13. Disposal considerations

13.1 RCRA Waste Classification:

D001 (Ignitable)
This classification applies only to the material as it was originally produced.

13.2 Product disposal

Recommendation:
Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.3 Packaging disposal

Recommendation:
Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

14. Transport information

14.1 US DOT & CANADA TDG SURFACE

Valuation .....: Not regulated for transport
Other Information .....: This material has been tested and does not sustain combustion. DOT Class 3 labels and placards are not required.

14.2 Transport by sea IMDG-Code

Valuation .....: Not regulated for transport
Comment.....: Not regulated in Class 3 - IMDG 2.3.1.3 -
as the substance does not sustain combustion!

14.3 Air transport ICAO-TI/IATA-DGR

Valuation .....: Not regulated for transport
Comment.....: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion!
Due to safety reasons no air transport in totes (IBC) or vented packaging!

15. Regulatory information

15.1 U.S. Federal regulations

TSCA inventory status and TSCA information:
This material or its component(s) is in compliance with TSCA under a Low Volume Exemption.

TSCA 12(b) Export Notification:
This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:
This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:
This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:
Reproductive toxicity. Specific target organ toxicity (single or repeated exposure). Flammable (gases, aerosols, liquids, or solids)

SARA 313 Chemicals:
This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

CAS-No.	Chemical	Upper limit
141-78-6	Ethyl acetate	<=0.0350 %

15.2 US State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This material does not contain any chemicals known to the State of California to cause cancer.

This material does not contain any chemicals known to the State of California to cause reproductive effects.

Massachusetts Right To Know
64742-55-8 Hydrotreated light paraffinic petroleum distillates

15.3 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 ..... :	**AIIC** (Australian Inventory of Industrial Chemicals): 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 not listed or in compliance with the substance inventory.
Philippines ..... :	**PICCS** (Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or 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”): Please approach your regular contact for more detailed information.

16. Other information

16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200).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 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.

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

Flash point determination methods	**Common name**
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

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)