

Material Safety Data Sheet

Material: 60046702 CATALYST T 100 TAP Super Flexible Silicone RTV Catalyst

Version: 1.2 (US) Date of print: 10/27/2006 Date of last alteration: 01/31/2005

1 Product and company identification**1.1 Identification of the substance or preparation:**

Commercial product name: CATALYST T 100 TAP Silicone RTV Food Grade Catalyst
Use of substance / preparation: Industrial.
Intermediate chemical .

1.2 Company/undertaking identification:

Manufacturer/distributor: Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221-9397
USA

Customer information: Customer Care Center:
Tel (517) 264-8240, Fax (517) 264-8740
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website www.wackersilicones.com

Emergency telephone no. (24h): (517) 264-8500
Transportation emergency: (800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)
(613) 996-6666 (CANUTEC, Canada)

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

2 Composition/information on ingredients**2.1 Chemical characterization (preparation):****Chemical characteristics**

Polydimethylsiloxane + Tetraethyl silicate + Organotin compound

2.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	78-10-4	Ethyl silicate	10.0	30.0	
INHA	77-58-7	Di-n-butyltindilaurate	1.0	5.0	
INHA	682-01-9	Tetrapropyl orthosilicate	60.0	90.0	
NEBE	64-17-5	Ethanol	varies	varies	
NEBE	71-23-8	n-Propanol	varies	varies	

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 Section 2 are only present at quantities below 0.1% or they are inextricably bound in the product.

3 Hazards identification**3.1 Hazards classifications****HMIS® rating (product as packaged):**

Health: 2*

Fire: 2

Reactivity: 1

PPE: H

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Note: Respiratory protection is only recommended in the event that ventilation or engineering controls are unable to maintain exposures below recommended levels; or in the event of a spill or other emergency response situation. (HMIS codes are based on contact with the product as packaged and any hydrolysis by-products, if present.) Hazardous Materials Identification System and HMIS are registered trademarks of the National Paint and Coatings Association.

Canadian WHMIS Classification: B3, D2B**3.2 Emergency overview and potential hazards****Signal Word:**

WARNING

Physical Hazards:

Combustible liquid and vapor.

Acute health effects**Route of entry or possible contact:**

eyes , skin , inhalation (aerosol) .

Eye contact:

May cause eye irritation.

Skin contact:

May cause skin irritation. May be absorbed through skin.

Inhalation:

Causes respiratory tract irritation. Inhalation may cause central nervous system effects.

Ingestion:

No known ingestion hazards.

Additional information on acute health effects:

This material releases ethanol upon hydrolysis. Ethanol (CAS-No. 64-17-5) is an irritant to the eyes and mucous membranes. Overexposure has been shown to cause central nervous system depression. Direct contact with the eyes will cause burning and stinging. This material releases n-propanol upon hydrolysis. Propanol (CAS-No. 71-23-8) is an irritant to the eyes, to the mucous membranes and to the skin. At high concentrations propanol causes central nervous system effects. Ingestion is not expected during industrial use.

3.3 Further information:**Chronic health effects:**

May cause damage to kidneys and liver. May cause lung damage. May cause chronic dermatitis.

Medical conditions which may be aggravated by exposure:

none known .

Target organs affected:

Lungs , liver , kidneys .

Signs and Symptoms of Exposure:

Refer to Acute Health Effects, listed above.

Carcinogens/Reproductive toxins:

There are no carcinogenic ingredients present at or over 0.1% in this material. This material does not contain any reproductive toxins at or above OSHA or WHMIS reportable levels.

See Section 11 for Toxicological Information, if any.

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

Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

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.

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4.5 After swallowing:

For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids.

4.6 Advice for the physician:

Treat symptomatically.

5 Fire-fighting measures**5.1 Flammable properties:**

Flash point.....: 69 °C (156 °F)
Boiling point / boiling range.....: not determined
Lower explosion limit (LEL).....: not determined
Upper explosion limit (UEL).....: not determined
Ignition temperature: not determined

Method

(ASTM D93)

5.2 Fire and explosion hazards:

Combustible liquid and vapor. Hydrolyzes on contact with moisture releasing ignitable vapors.

5.3 Recommended extinguishing media:

carbon dioxide, dry sand, dry chemical or foam-type extinguishing media

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: carbon dioxide , carbon monoxide , silicon dioxide , tin dioxide , 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:**

Warn others in the area and notify appropriate response personnel, if necessary. Have any persons who are not involved in the spill response leave the area. Turn on all exhaust ventilation units and open any outside doors and windows to help clear vapors from the area. Shut down all sources of ignition in the area of the spill. Secure the area. Do not walk through spilled material. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Obtain appropriate PPE, supplies, and equipment prior to attempting any response.

HAZWOPER PPE Level: C

6.2 Containment:

If safe to do so, stop the leak at its source. Prevent material from entering sewers or surface waters. Cover openings to underground drains and sewers. Use loose absorbant material or prefabricated socks to dike around small quantities of spilled material (incidental spills). 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:

Use non-sparking equipment to clean up spills of flammable materials. Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Use absorbant materials to pick up residual liquids. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction. Do not flush away with water.

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

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Use with adequate ventilation. Wash thoroughly after handling. Keep container closed when not in use.

Precautions against fire and explosion:

Do not weld, cut, or grind on empty containers. Keep away from heat, sparks and flame.

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7.2 Storage

Conditions for storage rooms and vessels:

Store in a dry and sheltered place.

Advice for storage of incompatible materials:

No restriction.

Further information for storage:

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

8 Exposure controls and personal protection

8.1 Engineering controls

Ventilation:

Use only with adequate ventilation.

Local exhaust:

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

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
78-10-4	Tetraethyl silicate	OSHA PEL	850.0	100.0	
	Tin compounds (organic)	OSHA PEL	0.1		
78-10-4	Tetraethyl silicate	ACGIH TWA		10.0	
	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:

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

Eye protection:

Safety glasses with side shields. Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing could occur.

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:

Follow standard industrial hygiene practices when using this material. When handling do not eat, drink, smoke or apply cosmetics.

9 Physical and chemical properties

9.1 Appearance

Physical state / form.....: liquid
 Colour.....: clear
 Odour.....: slight

9.2 Safety parameters

Melting point / melting range.....: not applicable
 Boiling point / boiling range.....: not determined
 Flash point.....: 69 °C (156 °F)
 Ignition temperature: not determined
 Lower explosion limit (LEL).....: not determined
 Upper explosion limit (UEL).....: not determined
 Vapour pressure.....: not determined
 Density.....: 0.98 g/cm³
 Water solubility / miscibility.....: insoluble
 pH-Value.....: not applicable
 Viscosity (dynamic).....: 95 mPa*s

Method

(ASTM D93)

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10 Stability and reactivity**10.0 General information:**

Stable under normal conditions of use.

10.1 Conditions to avoid:

Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability.

10.2 Materials to avoid:

moisture , strong oxidizing agents , acids , alkalis .

10.3 Hazardous decomposition products:

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.4 Further information:

Hazardous polymerization cannot occur.

Conditions to avoid hazardous polymerization: not applicable

11 Toxicological information**11.1 General information:**

No toxicological data exists for this material.

12 Ecological information**12.1 Information on elimination (persistence and degradability)**

not determined .

12.2 Behaviour in environmental compartments

not determined .

12.3 Ecotoxicological effects:

Classification based on ingredients: Toxic to aquatic organisms. May have long-term damaging effects in in-shore waters.

12.4 Additional information**General information:**

According to our present knowledge no further data known.

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

Material designated for disposal should be segregated from any substances or materials specified in Sect. 10 "Stability and reactivity". State and local regulations may be more stringent than Federal regulations.

13.2 Packaging disposal**Recommendation:**

Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. Uncleaned packaging should be treated with the same precautions as the material. After emptying contaminated containers may be cleansed and recycled.

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

Valuation.....: Not regulated for transport

Label.....: **USA-TL only at bulk containers > 119 gal.:Combustible liquid/3

Other Information.....: Not regulated in containers up to 119 Gal./450 L each! DOT regulated as a Combustible Liquid when packaged in bulk containers (> 119 Gallons).

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Corrosive to Steel or Aluminum: Not corrosive to steel or aluminum.

14.2 Transport by sea IMDG-CodeValuation.....: Not regulated for transport
Marine Pollutant.....: yes**14.3 Air transport ICAO-TI/IATA-DGR**

Valuation.....: Not regulated for transport

15 Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:

This material does not contain any TSCA 12(b) regulated 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:

Fire hazard. Immediate (acute) health hazard. Delayed (chronic) health hazard.

SARA 313 Chemicals:

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

HAPS:

This material does not contain any hazardous air pollutants.

15.2 U.S. State regulations**California Proposition 65 Carcinogens:**

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

California Proposition 65 Reproductive Toxins:

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

Massachusetts Substance List:

78-10-4 Ethyl silicate

New Jersey Right-to-Know Hazardous Substance List:

78-10-4 Ethyl silicate

Pennsylvania Right-to-Know Hazardous Substance List:

78-10-4 Ethyl silicate

15.3 Canadian regulations

This product has been classified in accordance with the Hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Hazard Classes:

B3, D2B

DSL Status:

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

Non-DSL Chemicals:

This material does not contain any non-DSL chemicals.

Canadian Ingredient Disclosure List:

78-10-4 Ethyl silicate

77-58-7 Di-n-butyltindilaurate

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15.4 Other international regulations**Details of international registration status**

Listed on the following inventories:

AICS - Australia
ECL - Korea
PICCS - Philippines
IECSC - China
EINECS - Europe

16 Other information**16.1 Additional information:**

This Material Safety Data Sheet (MSDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR. 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 MSDS 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.

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
ASTM D92, DIN 51376, ISO 2592
ASTM D93, DIN 51758, ISO 2719
ASTM D3278, DIN 55680, ISO 3679
DIN 51755

Common name

Tagliabue (Tag) closed cup
Cleveland open cup
Pensky-Martens closed cup
Setaflash or Rapid closed cup
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)