

Safety Data Sheet (91/155/EEC)

WACKER® CATALYST T 37

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

CLASSIFIED AS HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

1 Identification of the substance/preparation and company**1.1 Name of substance/preparation**

Commercial product name: WACKER® CATALYST T 37

1.2 Use of substance / preparation:Industrial.
Intermediate chemical**1.3 Company name**Manufacturer: Wacker-Chemie GmbH
Street/POB-No.: Hanns-Seidel-Platz 4
State/postal code/city: D 81737 Munchen
Telephone: +4989627901
Telefax: +498677832356Distributor: Wacker Chemicals Australia Pty Ltd
Street/POB-No.: Unit 18/20 Duerdin Street
State/postal code/city: Clayton North Vic 3168
Telephone: +61 3 9541 8900
Telefax: +61 3 9541 8989**1.4 Emergency telephone number**Emergency Information Regulatory Compliance +61 3 9541 8900
Manager
Emergency Information ADT Security - +61 3 9808 7363**2 Composition/information on ingredients****2.1 Chemical characterization (preparation):****Chemical characteristics**

Organotin compound + silicic acid ester

2.2 Hazardous ingredients:

EINECS / ELINCS-No.	CAS No.	Material	Content %		Warning Label (EU)	
			from	until	Symbol	R-Phrases
211-659-0	682-01-9	Tetrapropyl orthosilicate		<75,0	Xi	36/38
246-702-2	25168-22-3	Dibutylbis(1-oxoneodecyloxy) stannane		<25,0	Xn	21/22-36/38-48 /22-52/53

R-Phrase	Description
R36/38	Irritating to eyes and skin.
R21/22 R36/38 R48/22 R52/53	Harmful in contact with skin and if swallowed. Irritating to eyes and skin. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3 Hazards identification**3.1 Classification:**

R-Phrase	Description
R36/38	Irritating to eyes and skin.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Safety Data Sheet (91/155/EEC)

WACKER® CATALYST T 37

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

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

Where there is a risk of unconsciousness place and transport on one side in a stable position.

4.2 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.

4.3 After contact with the skin:

Wipe off excess material with cloth or paper. Wash with plenty of water or soap and water; immediately remove all contaminated clothing. Seek medical advice and clearly identify substance.

4.4 After contact with the eyes:

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

4.5 After swallowing:

Induce drinking plenty of water in small portions. Do not induce vomiting. Seek medical advice immediately and produce the label or packaging.

5 Fire-fighting measures**5.1 Suitable extinguishing media:**

water spray , water mist , extinguishing powder , sand , foam , carbon dioxide .

5.2 Extinguishing media which must not be used for safety reasons:

water jet .

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

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5.4 Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

6 Accidental release measures**6.1 Personal precautions:**

Wear personal protection equipment (see section 8). Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Ensure adequate ventilation.

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 for cleaning up:

Do not flush away with water. 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. Reseal opened containers carefully.

Precautions against fire and explosion:

Take precautionary measures against electrostatic charging. Keep away from open flames, heat and sparks. Cool endangered containers with water. In partly emptied containers formation of explosive mixtures is possible.

Safety Data Sheet (91/155/EEC)

WACKER® CATALYST T 37

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

7.2 Storage**Conditions for storage rooms and vessels:**

Protect against frost. Make sure there is no possibility of entering the ground.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

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

Minimum temperature allowed during storage and transportation: 0 °C**Maximum temperature allowed during storage and transportation:** 30 °C**8 Exposure controls and personal protection equipment****8.1 Exposure limits****Maximum airborne concentrations at the workplace**

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.	Fibre/m ³
71-23-8	1-Propanol	TLV_GB	500,0	200,0		

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

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

Personal protection equipment**Respiratory protection:**

In case of long or strong exposure: gas mask filter A .

Hand protection:

Protective gloves made of butyl rubber , nitrile rubber protective gloves . At any sign of decay or chemical permeability remove gloves immediately and replace. Gloves suitable for up to 60 minutes' use.

Eye protection:

protective goggles .

Skin protection:

protective clothing .

8.2.2 Exposure to the environment limited and controlled:

Prevent material from introduction into surface water and into soil. Observe local waste water bye-laws for organo tin and tin compounds.

9 Physical and chemical properties**9.1 General information**Physical state / form.....: liquid
Colour.....: colourless
Odour.....: slight**9.2 Important information about the protection of health, safety and the environment****Method
(67/548/EEC):**Boiling point / boiling range.....: 225 - 230 °C at 1013 hPa
Flash point.....: 70 °C (ISO 2719)
Autoignition temperature.....: > 240 °C (DIN 51794)
Lower explosion limit (LEL).....: not applicable
Upper explosion limit (UEL).....: not applicable
Vapour pressure.....: approx. 1 hPa at 20 °C
Density.....: approx. 1 g/cm³ at 20 °C (DIN 51757)
Water solubility / miscibility.....: virtually insoluble

Safety Data Sheet (91/155/EEC)**WACKER® CATALYST T 37**

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

pH-Value.....: not applicable
Viscosity (dynamic).....: approx. 2 mPa*s at 23 °C**9.3 Other information**

Re 9.2 solubility in water: Hydrolytic decomposition occurs. Hydrolysis products reduce the flash point.

Thermal decomposition.....: not applicable

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

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

10.1 Conditions to avoid:

moisture

10.2 Materials to avoid:

Reacts with: water , basic substances and acids . Reaction causes the formation of: alcohols .

10.3 Hazardous decomposition products:

If stored and handled in accordance with standard industrial practices and local regulations where applicable: none known . Under the effect of humidity, water and protic agents: alcohols .

11 Toxicological information**11.0 General information:**

Note indications of danger and safety advice (R- and S-phrases) in section 15.

11.1 Toxicological tests**Reference points for mutagenic (carcinogenic) potential:**

Test system	Effect	Source
Bacterial Reverse Mutation Test	not mutagenic	test report

11.3 Further toxicological information:

Classification based on ingredients: Irritating to eyes and skin. When swallowed: Danger of serious damage to health by prolonged exposure.

12 Ecological information**12.1 Ecotoxicity**

Damaging effects on water organisms cannot be excluded.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

Do not introduce large amounts into purification plants.

12.2 Mobility

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12.3 Persistence and degradability**Biodegradation / further information:**

The hydrolysis product (propanol) is easily biologically degradable.

Further information:

By hydrolysis: propanol and silicic acid .

12.4 Bio-accumulation potential**Further information:**

Bioaccumulation not ruled out.

Safety Data Sheet (91/155/EEC)

WACKER® CATALYST T 37

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

12.5 Other harmful effects

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12.6 Further ecological information**General information:**

Prevent material from introduction into surface water and into soil.

13 Disposal considerations**13.1 Material****Recommendation:**

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

13.2 Uncleaned packaging**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 Land transport GGVSE/ADR and RID****Road ADR:**

Valuation.....: Hazardous product
Class.....: 9
Packaging Group.....: III
Hazard No.: 90
UN no.: 3082
Proper Shipping Name.....: Umweltgefährdender Stoff, flüssig, n.a.g.
Technical name.....: (Enthält Dibutylbis(1-oxoneodecyloxy)stannan)
Wacker-Transport emergency card.....: 903
card.....:

Railway RID:

Valuation.....: Hazardous product
Class.....: 9
Packaging Group.....: III
UN no.: 3082

14.2 Inland navigation GGVBinsch/ADNR**14.3 Transport by sea GGVSee/IMDG-Code**

Valuation.....: Hazardous product
Class.....: 9
Packaging Group.....: III
UN no.: 3082
Proper Shipping Name.....: Environmentally hazardous substance, liquid, n.o.s.
Technical name.....: (Contains Dibutylbis((1-oxoneodecyl)oxy)stannane)
EmS No.: NONE
Marine Pollutant.....: yes

14.4 Air transport ICAO-TI/IATA-DGR

Valuation.....: Hazardous product
Class.....: 9
Packaging Group.....: III
UN no.: 3082
Proper Shipping Name.....: Environmentally hazardous substance, liquid, n.o.s.
Technical name.....: (Contains Dibutylbis((1-oxoneodecyl)oxy)stannane)

Safety Data Sheet (91/155/EEC)

WACKER® CATALYST T 37

Version: 4.1 (GB) Date of print: 06.11.2003 Date of last alteration: 08.10.2003

14.5 Transport/further information**Postal and courier service:**

German postal dispatch.....: 1000ccm per container / 3000ccm per package


Informing dept. ref. to heading 14. Transport information:

Department MW-G (Gefahrgut-Service), Telefax: +49/(0) 8677/83-5589, Telephone: +49/(0) 8677/83-4950

15 Regulatory information**15.0 Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP) Australia**

This is an S7 Scheduled Poison : YES

15.1 Warning Label (EU)

	Xn	Harmful
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R-Phrase	Description
R36/38	Irritating to eyes and skin.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.

S-Phrase	Description
S2	Keep out of the reach of children.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37/39	Wear suitable gloves and eye/face protection.
S46	If swallowed, seek medical advice immediately and show this container or label.
S51	Use only in well-ventilated areas.

Hazard ingredients (labelling EU):

CAS No.	Material	Hazard symbols	Risk phrases (EU)
25168-22-3	Dibutylbis(1-oxoneodecyloxy)stannane	Xn	21/22-36/38-48/2 2-52/53

15.2 National regulations:

SI 1999/3232: CHIP Regulations 1999
SI 1999/437: COSHH Regulations 1999
SI 1999/3242: Management of Health & Safety at Work Regulations 1999
Health & Safety at Work Act 1974
SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.
Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

16 Other information**16.1 Material**

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

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.

n.a. = not applicable	n.s. = not subject to
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Details of international registration status

Listed on the following inventories:

HSNO
IECSC
TSCA
PICCS
ENCS
EINECS
ECL
DSL
AICS