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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers

Product Name : 4-tert-Butylcatechol, 98%+ Product Code: B 2395 CAS-No.: 98-29-3

1.2. Relevant identified uses of the substance or mixture and uses advised against Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet Company identification OTTO CHEMIE PVT LTD 101, Aarkay Ruby Industrial Estate(1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Email info@ottokemi.com

1.4. Emergency telephone number Phone no.: + 91 22 2207 0099 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Acute toxicity, (Category 4) H302: Harmful if swallowed. Acute toxicity, (Category 4) H312: Harmful in contact with skin. Skin corrosion, (Sub-category1B) H314: Causes severe skin burns and eye damage. Serious eye damage, (Category1) H318: Causes serious eye damage. Skin sensitization, (Category 1) H317: May cause an allergic skin reaction. Short-term (acute) aquatic hazard, (Category 1) H400: Very toxic to aquatic life. Long-term (chronic) aquatic hazard, (Category 2) H411: Toxic to aquatic life with long lasting effects. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Danger Hazard Statements H302 + H312 Harmful if swallowed or in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects. **Precautionary Statements** P260 Do not breathe dust. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. P305 + P351 + P338 Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard none Statements Reduced Labeling (<= 125 ml) Pictogram

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Signal Word	Danger	
Hazard Statements		
H317	May cause an allergic skin reaction.	
H314	Causes severe skin burns and eye damage.	
Precautionary Statements		, · · · · · · · · · · · · · · · · · · ·
P260	Do not breathe dust.	
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.	
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated	
	clothing. Rinse skin with water.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
Supplemental Hazard	none	
Statements		
2.3 Other hazards		
This substance/mixture contains no components considered to be either persistent,		
bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at		
levels of 0.1% or higher.		
Ecological information:		
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.		
Toxicological information:		
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.		
SECTION 3: Composition/information on ingredients		
3.1 Substances		
Formula : C10H14O2		
Molecular weight : 166,22 g/mol		
CAS-No.: 98-29-3		
EC-No. : 202-653-9		
Component Classif	ication	Concentration
4-tert-butylpyrocatechol		
	Tox. 4; Skin Corr.	<= 100 %
	e Dam. 1; Skin	
	1; Aquatic Acute 1;	
	c Chronic 2; H302,	
	H314, H318, H317,	
H400,		
	or - Aquatic Acute:	
	Si Aquallo Aoule.	
For the full text of the H-Statements mentioned in	this Section see Section 16	
SECTION 4: First aid measures		

SECTION 4: First aid measures

4.1 Description of first-aid measures
General advice
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.
If inhaled
After inhalation: fresh air. Call in physician.
In case of skin contact
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with

water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of

perforation). Call a physician immediately. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

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Otto Chemie Pvt Ltd - provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product

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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 4.3 Indication of any immediate medical attention and special treatment needed No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire. 5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions

(see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling Work under hood. Do not inhale substance/mixture. Hygiene measures Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities Storage conditions
Tightly closed. Dry. hygroscopic
Storage class
Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials
7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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SECTION 8: Exposure controls/personal protection 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Body Protection protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains. **SECTION 9: Physical and chemical properties** 9.1 Information on basic physical and chemical properties a) Physical state flakes b) Color white c) Odor phenol-like Melting point/range: 56 - 58 °C d) Melting point/freezing point Melting point/range: 52 - 55 °C - lit. e) Initial boiling point 285 °C - lit. and boiling range f) Flammability (solid,gas)

explosive limits h) Flash point 113 °C - closed cup i) Autoignition 435 °C temperature at 996 - 1.000 hPa j) Decomposition No data available

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g) Upper/lower

flammability or

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No data available

No data available

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temperature k) pH I) Viscosity

m) Water solubility n) Partition coefficient: n-octanol/water o) Vapor pressure p) Density Relative density q) Relative vapour density r) Particle characteristics s) Explosive properties t) Oxidizing properties 9.2 Other safety information No data available No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available 4,2 g/l at 20 °C - OECD Test Guideline 105- soluble log Pow: 1,98 at 25 °C - Bioaccumulation is not expected.

0,001 - 0,011 hPa at 30,35 - 50,15 °C 1,08 kg/m3 at 20 °C - OECD Test Guideline 109 No data available No data available

No data available

Not explosive none

SECTION 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature) . 10.3 Possibility of hazardous reactions Violent reactions possible with: Strong oxidizing agents bases Strong acids 10.4 Conditions to avoid Avoid moisture. Strong heating. 10.5 Incompatible materials Strong oxidizing agents 10.6 Hazardous decomposition products In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 0,12 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates semi-static test EC50 - Daphnia magna (Water flea) - 0,48 mg/l - 48

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h (OECD Test Guideline 202) Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata (algae) - 10,17 ma/l - 72 h (OECD Test Guideline 201) static test NOEC - Pseudokirchneriella subcapitata - 0,2 mg/l - 72 h (OECD Test Guideline 201) Toxicity to bacteria static test EC50 - activated sludge - 16 mg/l - 3 h (OECD Test Guideline 209) static test NOEC - activated sludge - 0,6 mg/l - 3 h (OECD Test Guideline 209) Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) flow-through test NOEC - Daphnia magna (Water flea) - 0,135 mg/l - 21 d (OECD Test Guideline 211) 12.2 Persistence and degradability Biodegradability aerobic - Exposure time 28 d Result: 24,7 % - Not readily biodegradable. (OECD Test Guideline 310) 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. 12.6 Endocrine disrupting properties Product: Assessment : 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 Discharge into the environment must be avoided. SECTION 13: Disposal considerations 13.1 Waste treatment methods Product See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions. **SECTION 14: Transport information** 14.1 UN number ADR/RID: 3261 IMDG: 3261 IATA: 3261 14.2 UN proper shipping name CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-butylpyrocatechol) ADR/RID: IMDG: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4-tert-butylpyrocatechol) IATA: Corrosive solid, acidic, organic, n.o.s. (4-tert-butylpyrocatechol) 14.3 Transport hazard class(es) ADR/RID: 8 IMDG: 8 IATA: 8 14.4 Packaging group ADR/RID: II IMDG: II IATA: II 14.5 Environmental hazards ADR/RID: yes IMDG Marine pollutant: yes IATA: no

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14.6 Special precautions for user Tunnel restriction code : (E)

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Further information : No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Authorisations and/or restrictions on use National legislation Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS Other regulations Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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