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101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel: + 91 98200 41841

Email: info@ottokemi.com Web: www.ottokemi.com

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Product identifiers Product Name: o-Cresol, 98% Product Code: C 2585

CAS-No.: 95-48-7

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 3) H301: Toxic if swallowed.

Acute toxicity, (Category 3) H311: Toxic in contact with skin.

Skin corrosion, (Sub-category H314: Causes severe skin burns and eye

Damage H318: Causes serious eye damage.

Serious eye damage, (Category

Long-term (chronic) aquatic H412: Harmful to aquatic life with long

hazard. (Category 3) lasting effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Hazard Statements

H301 + H311

H314 H412

Precautionary Statements

P273 P280

P303 + P361 + P353

P304 + P340 + P310

P305 + P351 + P338

Supplemental Hazard

Statements Reduced Labeling (<= 125 ml)

Pictogram

Signal Word

Hazard Statements

H314 H412 protection.

Do not breathe dust.

Avoid release to the environment.

Toxic if swallowed or in contact with skin.

Causes severe skin burns and eye damage.

Harmful to aquatic life with long lasting effects.

Wear protective gloves/ protective clothing/ eye protection/ face

Danger

IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water.

IF INHALED: Remove person to fresh air and keep comfortable

for breathing. Immediately call a POISON CENTER/ doctor. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing. none

Danger

Causes severe skin burns and eve damage. Harmful to aquatic life with long lasting effects.

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H301 + H311 Toxic if swallowed or in contact with skin.

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.

P304 + P310 IF INHÄLED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
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

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 : C7H8O

Molecular weight : 108,14 g/mol

CAS-No. : 95-48-7

EC-No. : 202-423-8

Index-No. : 604-004-00-9

Component	Classification	Concentration
o-cresol		
CAS-No. 95-48-7	Acute Tox. 3; Skin Corr. 1B; Eye	<= 100 %
EC-No 202-423-8	Dam. 1; Aquatic Chronic 3;	
	H301, H311, H314, H318, H412	

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting

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(only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

4.2 Most important symptoms and effects, both acute and delayed

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

Remove container from danger zone and cool with water. 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 generation and inhalation of dusts in all circumstances. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. 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 carefully. 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 protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

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. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous materials

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7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Derived No Effect Level (DNEL)

Application Area	Routes of exposure	Health effect	Value
Worker DNEL, acut	inhalation	Systemic effects	153 mg/m3
Worker DNEL, acute	dermal	Systemic effects	
Worker DNEL,	inhalation	Systemic effects	3,5 mg/m3
longterm			
Worker DNEL,	dermal	Systemic effects	
longterm			
Consumer DNEL,	oral, dermal	Systemic effects	V GENERAL CONTRACTOR OF THE PARTY OF THE PAR
acute			
Consumer DNEL,	inhalation	Systemic effects	105 mg/m3
acute			
Consumer DNEL,	oral, dermal	Systemic effects	
longterm			
Consumer DNEL,	inhalation	Systemic effects	0,75 mg/m3
longterm		The Control of the Co	

Predicted No Effect Concentration (PNEC)

Compartment	Value
Value	0,1 mg/l
Sea water	0,01 mg/l
Aquatic intermittent release	0,062 mg/l
Sewage treatment plant	1,28 mg/l
Fresh water sediment	0,58 mg/kg
Sea sediment	0,058 mg/kg
Soil	0,0572 mg/kg

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 protectior

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: Chloroprene

Minimum layer thickness: 0,65 mm

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Break through time: 480 min

Material tested: KCL 720 Camapren®

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Internet: www.kcl.de). Splash contact Material: Latex gloves

Minimum layer thickness: 0,6 mm Break through time: 60 min

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

Recommended Filter type: Filter A-(P3)

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
- b) Color
- c) Odor
- d) Melting

point/freezing point

- e) Initial boiling point and boiling range
- f) Flammability (solid,

gas)

- g) Upper/lower flammability or
- explosive limits
- h) Flash point
 i) Autoignition
- temperature
- j) Decomposition temperature

k) pH

- I) Viscosity Viscosity, kinematic:
- Viscosity, dynamic:
- m) Water solubility
- n) Partition coefficient:
 - n-octanol/water
- o) Vapor pressure
- p) Density
 - Relative density
- q) Relative vapor density
- r) Particle
- characteristics
- s) Explosive properties
- t) Oxidizing properties
- 9.2 Other safety information No data available

solid

white

No data available

29,0 °C

191,0 °C

No data available

Upper explosion limit: 58 %(V Lower explosion limit: 1,3 %(V)

81,0 °C - closed cup

599,0 °C

No data available

4,5 at 25,00000 g/l No data available No data available 25 g/l at 20 °C No data available

3,1 hPa at 60,0 °C 1,3 hPa at 38,2 °C 0,4 hPa at 20,0 °C 1,05 g/cm3 at 20,00 °C No data available No data available

No data available

No data available

none

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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

Nitric acid

fuming sulfuric acid

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Aluminum, 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 Chronic 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 LC50 - Oncorhynchus mykiss (rainbow trout) - 8,4 mg/l - 96 h

Remarks: (ECOTOX Database)

Toxicity to daphnia and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - 15,7 mg/l - 48 h

Remarks: (ECHA)

The value is given in analogy to the following substances: p-cresol

semi-static test NOEC - Daphnia - 1 mg/l - 21 d

Remarks:

Toxicity to algae static test ErC50 - SELENASTRUM - 100,00 mg/l - 96 h

Remarks: (ECHA)

Toxicity to bacteria EC50 - Photobacterium phosphoreum - 32 mg/l - 30 min

Remarks: (IUCLID)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 7 d Result: 100 % - Inherently biodegradable.

(OECD Test Guideline 302B)

Theoretical oxygen

demand 2.520 mg/g

Remarks: (Lit.)

Ratio BOD/ThBOD 65 %

Remarks: (Lit.)

12.3 Bioaccumulative potential

Bioaccumulation Danio rerio (zebra fish)(o-cresol)

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Bioconcentration factor (BCF): 10,7

(OECD Test Guideline 305)

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.

IATA: 3455

IATA: 6.1 (8)

IATA: II

IATA: no

12.7 Other adverse effects

Biological effects:

Hazard for drinking water supplies.

Change in the flavour characteristics of fish protein. Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

No data available

SECTION 14: Transport information

14.1 UN number

ADR/RID: 3455

14.2 UN proper shipping name

ADR/RID: CRESOLS, SOLID IMDG: CRESOLS, SOLID IATA: Cresols, solid

14.3 Transport hazard class(es)

ADR/RID: 6.1 (8)

14.4 Packaging group

ADR/RID: II

14.5 Environmental hazards

ADR/RID: no

14.6 Special precautions for user

Tunnel restriction code : (D/E)

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.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

IMDG: 6.1 (8)

IMDG Marine pollutant: no

IMDG: II

Take note of Dir 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance.

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

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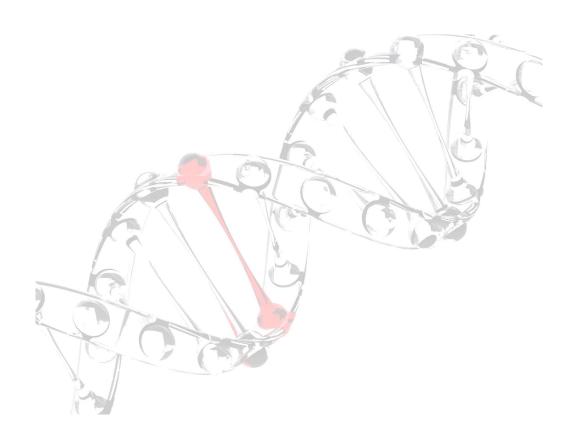
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activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.



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