

Deepak Nitrite Limited

Material Safety Data Sheet

Ortho Toluidine

1 Product And Company Identification :

Product Name : **Ortho Toluidine**
 CAS No. : **95-53-4**
 Supplier : Deepak Nitrite Ltd.
 National Games Road, Opposite Golf Course,
 Yerawada, Pune – 411 006. (India).
 Tel No. : +91 – 20 – 6689265
 Telefax : +91 – 20 – 6685448
 E – mail : export@deepaknitrite.com
 Emergency tel. No : +91 – 22 - 27411125

2 Composition / Information On Ingredients :

Hazardous components : Ortho-Toluidine
 Synonyms : 2-Amino toluene O-Methyl Aniline
 Chemical formula : C₇H₉N
 Molecular weight : 107.2
 CAS No. : 95-53-4
 UN No. : 1708, Liquid Toxic
 EINECS No. : 202-429-0
 Hazard symbols : T
 Risk phrases : R 23/24/25-33
 Safety phrases : S-28/36/37/45/61

3 Hazards Identification :

Label precautionary statement
 Toxic
 Dangerous for environment
 Immediate effect : Target organ (s), blood & liver
 NFPA rating : Health (H) - 3
 Flammability (F) - 2
 Reactivity ® - 0
 Store away from food & foodstuff, harmful if swallowed

Potential Health Effects:

Harmful by inhalation, in contact with skin and if swallowed. May cause eye irritation. The toxicological properties of this material have not been fully investigated, though absorption into the body leads to formation of methemoglobin, which can further cause cyanosis.

US information : this product is subject to SARA Section 313 reporting requirements. This product contains chemical known to the state of California to cause cancer

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4 First Aid Measures :

Remove all contaminated clothing immediately.

Following skin contact : Wash skin immediately with plenty of water and soap. If skin reactions occur, contact a physician.

Following eye contact: Open the eyelids and rinse for an adequate length of time with water. Consult an eye specialist immediately.

Upon inhalation : Remove victim to fresh air area. If there is difficulty in breathing, medical attention should be obtained.

Upon Ingestion : Induce vomiting by giving lukewarm water of mustard & water and get medical attention immediately.

5 Fire Fighting Measures :

Fire Extinguishing Media : Dry chemical powder, foam. Spray water

Special information : In the event of fire, this substance decomposes to give toxic fumes. Fire fighters should wear self-contained breathing apparatus (SCBA) with full face piece & body wear clothing.

6 Accidental Release Measures :

Fill into labelled sealable containers.

Use necessary personal protective equipment when handling.

Cover with dry lime, sand or soda ash. Place in covered containers using non-sparking tools & transport outdoors.

7 Handling & Storage :

Store in a cool, dry, well ventilated area, away from heat.

During processing, ensure sufficient exhaust ventilation in the working area. Vent waste air via suitable separators or scrubbers.

8 Exposure Control / Personal Protection :

Respiratory protection : Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Eye protection: Goggles

Wear butyl rubber gloves if contact with product is possible.

Avoid contact with eyes or skin. Do not inhale vapours.

To reduce exposure, provide adequate local exhaust ventilation at work place. Make use of chemical fume hood.

9 Physical And Chemical Properties :

Colour : White to pinkish white

Odour : Aromatic Amine

pH : -

Boiling Point/range : 200.4 °C

Melting point : -14 °C

Flash Point : 87 °C (Closed Cup)

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13 Disposal Considerations :

Examine possibilities for re-utilisation. Package product wastes. Close and label waste containers. Dispose these at a suitable waste incineration plant in accordance with the official regulations. Where large quantities are concerned, consult the supplier. When uncleaned empty containers / packing material is passed on, the recipient must be warned of any possible hazard that may be caused by the residues. Dissolve or mix the material with a combustible solvent & burn in a chemical incinerator equipped with an after burner & scrubber.

14 Transport Information :

UN No. : 1708 Hazard Class : 6.1 Packing Group : II
Proper shipping name
Declaration for land shipment : As above
Declaration for sea shipment : As above
Declaration for air shipment (IATA) :
Packing instruction, passenger : 309 ; Quantity : 5 litre
Packing instruction, cargo : 310 ; Quantity : 60 litre

15 Regulatory Information :

Symbols : T
Contains para Toluidine
R-24/25 : Toxic in contact with skin & if swallowed.
R-34 : Causes burns.
R-50 : Very toxic to aquatic organisms.
S-28 : After contact with skin, wash immediately with plenty of water.
S-36/37 : Wear suitable protective clothing & gloves.
S-45: In case of accident or if you feel unwell, seek medical advice immediately.
S-61 : Avoid release to the environment.

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16 Other Information:

OEL – MAK
ACGIH TLV – Confirmed animal carcinogen DTLVS * TLV / BEI, 1999
ACGIH TLV – TWA, 2 ppm (Skin)
OEL-AUSTRIA – TWA 2 ppm (9 mg/m³) skin Carcinogen 1993
OEL – AUSTRIA – Skin, suspected carcinogen, Jan 1999
OEL – BELGIUM – TWA 2 ppm (8.8 mg/m³) skin carcinogen 1993]
OEL –DENMARK- TWA 2 ppm (9 mg/m³) skin Jan 1999
OEL –Germany – Skin carcinogen Jan 1999
OEL- THE NETHERLANDS MAC – TGC 2 ppm (9 mg/m³) skin Jan 1999
OEL – RUSSIA – STEL 1mg/m³, skin Jan 1993.
OELSWITZERLAND MAK –W 2 ppm(9 mg/m³) skin Jan 1999
OEL in Argentine, Bulgaria, Colombia, Jordan, Korea, Check ACGIH
TLV, New Zealand, Singapore, Vietnam check ACGIH, TLV
NOHS Rel to P- toluidine – Air; CA lowest feasible conc.(SK)
NIOSH * dhhs #92-100,1992
NOHS 1974 : HZD MO854, NIS 8, TNF 508, NOS 5, TNE 226
EPA Genetox program 1988, Negative : S Ceversible – Homozygous
EPA TSCA Section 8(B) Chemical inventory
EPA TSCA Section 8 (D) unpublished Health / Safety studies
EPA TSCA test submission (TSCATS) database, January 2001
OSHA analytical method # ID –73
Revision Information : Revised on 01.10.2002

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