An ISO 9001 : 2015 & GMP Certified Company 101, Aarkay Ruby Industrial Estate (1B), Opp Shree Narayan Industrial Estate, Chinchpada, Vasai East, Waliv, Maharashtra 401208. Tel : + 91 98200 41841 Email : <u>info@ottokemi.com</u> Web : <u>www.ottokemi.com</u>

### MATERIAL SAFETY DATA SHEET (MSDS)

### **SECTION 1. Product identifiers**

Product name: 3,3-Diaminobenzidine, GR 99% Product Code: D 1350 CAS No : 91-95-2

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) Eye irritation, (Category 2) Germ cell mutagenicity, (Category 2) Carcinogenicity, (Category 1B) 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Hazard Statements H302 H319 H341 H350 **Precautionary Statements** P202 P264 P280 P301 + P312 P305 + P351 + P338 P308 + P313 Supplemental Hazard Statements Restricted to professional users. Reduced Labeling (<= 125 ml) Pictogram Signal Word Hazard Statements H341 H350 **Precautionary Statements** P202

H302: Harmful if swallowed. H319: Causes serious eye irritation. H341: Suspected of causing genetic defects. H350: May cause cancer.

### Danger

Harmful if swallowed. Causes serious eye irritation. Suspected of causing genetic defects. May cause cancer.

Do not handle until all safety precautions have been read and understood.

Wash skin thoroughly after handling.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention. none

Danger

Suspected of causing genetic defects. May cause cancer.

Do not handle until all safety precautions have been read and understood.

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Wear protective gloves/ protective clothing/ eye protection/ face

#### protection. P308 + P313 IF exposed or concerned: Get medical advice/ attention. 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 Synonyms · DAB 3,3',4,4'-Biphenyltetramine 3,3',4,4'-Tetraaminobiphenyl Formula : C12H14N4 : 214,27 g/mol Molecular weight CAS-No. : 91-95-2 EC-No. : 202-110-6

Component	Classification	Concentration
Biphenyl-3,3',4,4'-tetrayltetraamine		
CAS-No. 91-95-2 EC-No. 202-110-6	Acute Tox. 4; Eye Irrit. 2; Muta. 2; Carc. 1B; H302, H319, H341, H350	<= 100 %

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

P280

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. Consult a physician.

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a

physician.

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

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### **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 Nitrogen oxides (NOx) Combustible. 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 Suppress (knock down) gases/vapors/mists with a water spray jet. 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. 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 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. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons. Light sensitive. Storage class Storage class (TRGS 510): 6.1C: Combustible, acute toxic Cat.3 / toxic compounds or compounds which causing chronic effects 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

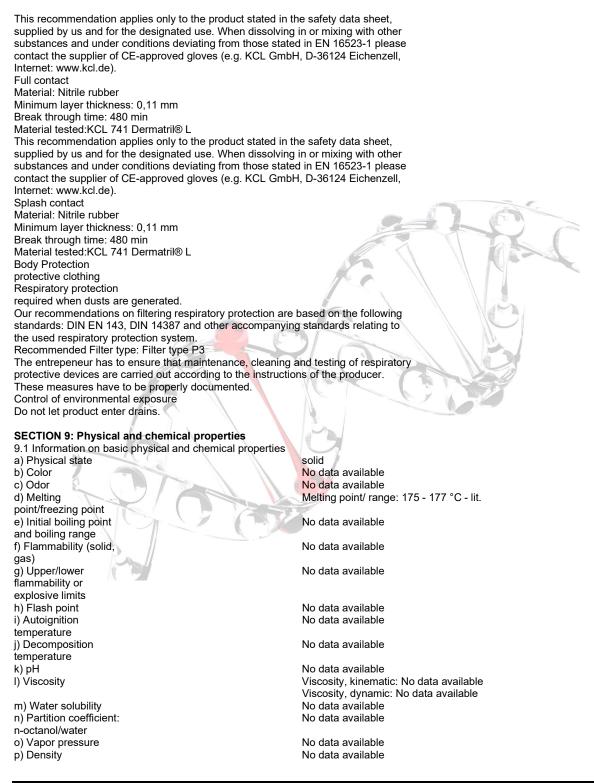
8.1 Control parameters
Ingredients with workplace control parameters
8.2 Exposure controls
Personal protective equipment
Eye/face protection
Use equipment for eye protection tested and approved under appropriate
government standards such as NIOSH (US) or EN 166(EU). Safety glasses
Skin protection

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Relative density	
	No data available
q) Relative vapor	No data available
density	
r) Particle	No data available
characteristics	
s) Explosive properties	No data available
t) Oxidizing properties	none
9.2 Other safety information	
No data available	
SECTION 10: Stability and reactivity	
10.1 Reactivity	
The following applies in general to flammable organic substa	
correspondingly fine distribution, when whirled up a dust exp	losion potential may generally
be assumed.	
10.2 Chemical stability	
The product is chemically stable under standard ambient co	nditions (room temperature).
10.3 Possibility of hazardous reactions	
Violent reactions possible with:	
Strong oxidizing agents	
Caution! In contact with nitrites, nitrates, nitrous acid possible	e liberation of nitrosamines!
10.4 Conditions to avoid	
Light.	
no information available	
10.5 Incompatible materials	
No data available 10.6 Hazardous decomposition products	
In the event of fire: see section 5	
In the event of me. see section 5	
SECTION 11: Toxicological information	
11.1 Information on toxicological effects	WITH THE SEA
Routes of Entry: Absorbed through skin. Dermal contact. Ey	e contact. Toxicity to Animals:
Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/k	
Inhalation LC50 Rat: > 50mg/L.	.9
initialation E000 rtat. Obing/E.	
Chronic Effects on Humans: CARCINOGENIC EFFECTS: C	lassified None by NTP None by OSHA None by NIOSH
	lassified None. by NTP, None. by OSHA, None. by NIOSH. contact (irritant). of inhalation (lung irritant).
Other Toxic Effects on Humans: Hazardous in case of skin o	
Other Toxic Effects on Humans: Hazardous in case of skin of Special Remarks on Toxicity to Animals: Not available.	contact (irritant), of inhalation (lung irritant).
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Other Toxic Effects on Humans: Hazardous in case of skin of Special Remarks on Toxicity to Animals: Not available. Special Remarks on Chronic Effects on Humans: Not availa Special Remarks on other Toxic Effects on Humans: Not availa SECTION 12: Ecological information 12.1 Toxicity No data available 12.2 Persistence and degradability	contact (irritant), of inhalation (lung irritant).
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12.7 Other adverse effects		
No data available		

### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods No data available

#### **SECTION 14: Transport information** 14.1 UN number ADR/RID: -IMDG: -IATA: -14.2 UN proper shipping name ADR/RID : Not dangerous goods IMDG : Not dangerous goods IATA : Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: · 14.4 Packaging group ADR/RID: -IMDG: -IATA: 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user No data available Further information Not classified as dangerous in the meaning of transport regulations. **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 REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Biphenyl-3,3',4,4'tetravltetraamine REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Biphenvl-3.3'.4.4'tetrayltetraamine (Annex XVII) 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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