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### MATERIAL SAFETY DATA SHEET (MSDS)

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

Product name: Ehrlich's B, reagent Product Code: E 1201

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 <u>info@ottokemi.com</u>

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 Classification according to Regulation (EC) No 1272/2008 Skin sensitization (Sub-category 1B), H317 For the full text of the H-Statements mentioned in this Section, see Section 16. 2.2 Label elements Labelling according Regulation (EC) No 1272/2008 Pictogram Signal Word Warning Hazard statement(s) H317 May cause an allergic skin reaction. Precautionary statement(s) P261 Avoid breathing dust. P272 Contaminated work clothing should not be allowed out of the workplace.

P280 P302 + P352 P333 + P313 P362 + P364 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.

### SECTION 3: Composition/information on ingredients

3.1 Substances	
Synonyms	: Ehrlich's reagent
Formula	: C9H11NO
Molecular weight	: 149,19 g/mol
CAS-No.	: 100-10-7
EC-No.	: 202-819-0

ComponentClassificationConcentration4-dimethylaminobenzaldehydeCAS-No. 100-10-7Skin Sens. 1B; H317EC-No. 202-819-0

Wear protective gloves.

none

IF ON SKIN: Wash with plenty of water.

If skin irritation or rash occurs: Get medical advice/ attention.

Take off contaminated clothing and wash it before reuse.

For the full text of the H-Statements mentioned in this Section, see Section 16. **SECTION 4: First aid measures** 

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4.1 Description of first-aid measures General advice Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. 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 eve contact: rinse out with plenty of water. 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 **SECTION 5: Firefighting measures** 5.1 Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given. 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) Not combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Ambient fire may liberate hazardous vapours. 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 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

For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions

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Tightly closed. Dry. Moisture sensitive. Store under inert gas. Storage class Storage class (TRGS 510): 11: Combustible Solids 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 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 EN374 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 EN374 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 crystalline a) Physical state b) Color green, greenish-blue, to, dark gray c) Odor characteristic d) Meltina Melting point/range: 72 - 75 °C - lit. point/freezing point Melting point/range: 73 - 75 °C - lit. ca.310 °C at 1.013 hPa - OECD Test Guideline 103 e) Initial boiling point and boiling range f) Flammability (solid, No data available gas)

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

k) pH I) Viscosity

m) Water solubilityn) Partition coefficient:n-octanol/watero) Vapor pressure

p) Density
Relative density
q) Relative vapor
density
r) Particle
characteristics
s) Explosive properties
t) Oxidizing properties
9.2 Other safety information
Surface tension

### **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. 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 10.4 Conditions to avoid May discolor on exposure to air and light. Strong heating. 10.5 Incompatible materials No data available 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**

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#### No data available

164 °C - closed cup No data available

ca. 355 - 485 °C Heating rate: 3 K/min Decomposition energy (mass): 690 kJ/kg Method: OECD Test Guideline 113 No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available ca.0,8 g/l at 20 °C - OECD Test Guideline 105slightly soluble log Pow: 1,8 at 23 °C - OECD Test Guideline 107 -Bioaccumulation is not expected. < 0,1 hPa at 20 °C - OECD Test Guideline 104 0,00 hPa at 40 °C - OECD Test Guideline 104 ca.1,22 g/cm3 at ca.20,1 °C - OECD Test Guideline 109 No data available No data available

No data available

No data available

none

65,4 mN/m at 3,88g/l at 20 °C - OECD Test Guideline 115 - similar to water

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40.4 Taylette		
12.1 Toxicity Toxicity to fish LC50 - Pimephales promel	as (fathoad minnow) 45.7 mg/l 96 h	
Remarks: (External MSDS)	as (latilead miniliow) - 43,7 mg/l - 90 m	
Toxicity to daphnia		
and other aquatic		
invertebrates		
semi-static test EC50 - Daphnia magna (V	Vater flea) - 1 58 mg/l - 48	
h		
(OECD Test Guideline 202)		
	odesmus subspicatus (green algae) - 72,7	
mg/l - 72 h		
(OECD Test Guideline 201)		
12.2 Persistence and degradability		
Biodegradability aerobic - Exposure time 2	28 d	
Result: 0 % - Not readily biodegradable.		
(OECD Test Guideline 301F)		
12.3 Bioaccumulative potential		
No data available		
12.4 Mobility in soil		
No data available 12.5 Results of PBT and vPvB assessme	at a state of the	
This substance/mixture contains no comp		
	persistent and very bioaccumulative (vPvB	) at
levels of 0.1% or higher.		) di
12.6 Endocrine disrupting properties		
Product:		
Assessment : The substance/mixtu	u <mark>re does</mark> not contain components	
considered to have en	ndocrine disrupting properties	
according to REACH	Article 57(f) or Commission	
	(EU) 2017/2100 or Commission	
	8/605 at levels of 0.1% or higher.	S S S S
12.7 Other adverse effects		
Discharge into the environment must be a	voided.	
SECTION 42: Dispessel sensideretions		
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 good	ls	
IMDG : Not dangerous good	ls	
IATA : Not dangerous good	ls	
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	a of transport regulations	
	y or transport regulations.	
SECTION 15: Regulatory information		
15.1 Safaty, health and onvironmental rec	ulations/legislation specific for the	

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.

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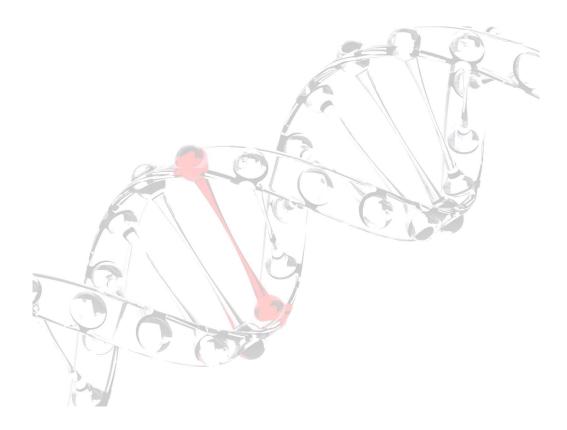
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Other regulations

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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