

# MATERIAL SAFETY DATA SHEET SDS/MSDS

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifiers Product name	:	Metol
	CAS-No.	:	55-55-0
1.2 Relevant identified uses			e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Industrial & for professional use only.
1.3	Details of the supplier of the safety data sheet		
	Company	:	Bio-Chem Chemicals 5455,Nicholson Nicholson Road, Science Market, Ambala Cantt. 133001Haryana (India) +91-82952 41953 info@biofinechemical.com - www.biofinechemical.com

#### 1.4 Emergency telephone number

Emergency Phone # : +91 99921 51495 (10.00am - 06.30pm) (Office Hours)

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** Acute toxicity, Oral (Category 4), H302 Skin sensitisation (Category 1), H317 Specific target organ toxicity - repeated exposure (Category 2), H373 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

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



0
Hazard statement(s)
H302
H317
H373
H410

Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P260	Wear protective gloves.
P280	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301 + P312 + P330	Rinse mouth.
Supplemental Hazard Statements	none

#### 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	:	4-(Methylamino)phenol Metol ECOL
Formula	:	$C_{14}H_{18}N_2O_2.H_2SO_4\\$
Molecular weight CAS-No. EC-No. Index-No.	: : :	344.39 g/mol 55-55-0 200-237-1 650-031-00-4

# Hazardous ingredients according to Regulation (EC) No 1272/2008

(	Component		Classification	Concentration
I	Bis(4-hydroxy-N-met	hylanilinium) sulphate		
	CAS-No. EC-No. Index-No.	55-55-0 200-237-1 650-031-00-4	Acute Tox. 4; Skin Sens. 1; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 1; H302,	<= 100 %
			H317, H373, H400, H410 M-Factor - Aquatic Acute: 10	

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**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. 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.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Light sensitive. Storage class (TRGS 510): Non 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

8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### **Eye/face protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle r (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### **SECTION 9: Physical and chemical properties**

9.2

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: beige	
b)	Odour	No data available	
c)	Odour Threshold	No data available	
d)	рН	No data available	
e)	Melting point/freezing point	Melting point/range: 260 °C - dec.	
f)	Initial boiling point and boiling range	No data available	
g)	Flash point	No data available	
h)	Evaporation rate	No data available	
i)	Flammability (solid, gas)	No data available	
j)	Upper/lower flammability or explosive limits	No data available	
k)	Vapour pressure	No data available	
I)	Vapour density	No data available	
m)	Relative density	No data available	
n)	Water solubility	No data available	
o)	Partition coefficient: n- octanol/water	No data available	
p)	Auto-ignition temperature	No data available	
q)	Decomposition temperature	No data available	
r)	Viscosity	No data available	
s)	Explosive properties	No data available	
t)	Oxidizing properties	No data available	
Other safety information No data available			

#### **SECTION 10: Stability and reactivity**

- 10.1 Reactivity No data available
- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** Light.
- **10.5** Incompatible materials acids, Acid chlorides, Acid anhydrides, Oxidizing agents

#### **10.6 Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

Other decomposition products - No data available In the event of fire: see section 5

#### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Mouse - 565 mg/kg(Bis(4-hydroxy-N-methylanilinium) sulphate) Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Tremor. Kidney, Ureter, Bladder:Other changes in urine composition. TDLo Oral - Rat - 9,350 mg/kg(Bis(4-hydroxy-N-methylanilinium) sulphate) Remarks: Endocrine:Other changes. Blood:Changes in spleen. TDLo Oral - Rat - (Bis(4-hydroxy-N-methylanilinium) sulphate) Remarks: Kidney, Ureter, Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis). Endocrine:Other changes.

#### Skin corrosion/irritation

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### Serious eye damage/eye irritation

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### Respiratory or skin sensitisation

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### Germ cell mutagenicity

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### **Reproductive toxicity**

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### Specific target organ toxicity - single exposure

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard

No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### **Additional Information**

RTECS: SL8650000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. (Bis(4-hydroxy-N-methylanilinium) sulphate)

#### **SECTION 12: Ecological information**

12.1 Toxicity

No data available

- 12.2 Persistence and degradability No data available
- **12.3 Bioaccumulative potential** No data available

### 12.4 Mobility in soil No data available(Bis(4-hydroxy-N-methylanilinium) sulphate)

#### 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 Other adverse effects

Very toxic to aquatic life with long lasting effects.

No data available

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

#### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

#### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	UN numbe	-	IMDG: 3077	
				IATA: 3077
14.2	UN proper shipping name			
	ADR/RID:	ENVIRONMENTALLY H methylanilinium) sulpha	HAZARDOUS SUBSTANCE, SOLIE te)	), N.O.S. (Bis(4-hydroxy-N-
	IMDG:	ENVIRONMENTALLY I methylanilinium) sulpha	HAZARDOUS SUBSTANCE, SOLIE te)	), N.O.S. (Bis(4-hydroxy-N-
	IATA:	Environmentally hazard sulphate)	ous substance, solid, n.o.s. (Bis(4-h	nydroxy-N-methylanilinium)
14.3	Transport	hazard class(es)		
	ADR/RID: 9		IMDG: 9	IATA: 9
14.4	Packaging ADR/RID: I	• •	IMDG: III	IATA: III
14.5	Environme ADR/RID: y	<b>ental hazards</b> /es	IMDG Marine pollutant: no	IATA: yes

#### 14.6 Special precautions for user

#### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

#### **SECTION 15: Regulatory information**

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
- 15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

#### **SECTION 16: Other information**

#### Full text of H-Statements referred to under sections 2 and 3.

- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.