

**SECTION1. Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product code : METOLO

Trades code : 100190

Chemical Name: bis(4-hydroxy-N-methylanilinium) sulphate CAS: 55-55-0 - EC No: 200-237-1 - Index No: 650-031-00-4

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Photographic Process

Sectors of use:

Professional use[SU22]

Product category:

Photochemicals

Process categories:

Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact)[PROC5]

Uses advised against

Do not use for purposes other than those listed

**1.3. Details of the supplier of the safety data sheet**

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**1.4. Emergency telephone number**

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**SECTION2. Hazards identification****2.1. Classification of the substance or mixture**

CAS 55-55-0 CEE 650-031-00-4 EINECS 200-237-1

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

GHS06, GHS07, GHS08, GHS09

Hazard Class and Category Code(s):

Acute Tox. 2, Skin Sens. 1, STOT RE 2, Aquatic Chronic 1

Hazard statement Code(s):

H300 - Fatal if swallowed.

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects. (Acute toxicity M-factor = 1)

Lethal product: do not ingest

The product, if brought into contact with skin can cause skin sensitization.

Warning: This product can cause serious irreversible damages to man's health through prolonged or repeated exposure

The product is dangerous to the environment as it is very toxic to aquatic life with long lasting effects

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

GHS06, GHS08, GHS09 - Danger

Hazard statement Code(s):

H300 - Fatal if swallowed.

H317 - May cause an allergic skin reaction.

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects. (Acute toxicity M-factor = 1)

Supplemental Hazard statement Code(s):

not applicable

Precautionary statements:

Prevention

P260 - Do not breathe dust, fume, gas, mist, vapours, spray.

P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.

P264 - Thoroughly wash clothing after use.

P273 - Avoid release to the environment.

P280 - Wear protective gloves protective clothing eye protection face protection.

Response

P301+P310 - IF SWALLOWED: Immediately contact a doctor and show him the label

P314 - Get medical advice attention if you feel unwell.

P321 - Specific treatment to see instructions on the safety data sheet

P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

Disposal

P501 - Dispose of contents and container in accordance with the laws in force

Contains:

bis(4-hydroxy-N-methylanilinium) sulphate

**2.3. Other hazards**

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII  
 The use of this chemical agent involves the obligation of "risk assessment" by the employer in accordance with Dlgs.  
 April 9, 2008 # 81. Workers exposed to this chemical agent should not be subjected to health surveillance if the results  
 of the risk assessment show that, in relation to the type and quantity of hazardous chemical agent and that agent  
 exposure frequency and mode, you just a "moderate risk" for the health and safety of workers and that the measures  
 laid down in the decree are sufficient to reduce the risk.

**SECTION3. Composition/information on ingredients**
**3.1 Substances**

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
bis(4-hydroxy-N-methylanilinium) sulphate	100%	Acute Tox. 4, H302; Skin Sens. 1, H317; STOT RE 2, H373; Aquatic Chronic 1, H410	650-031-00-4	55-55-0	200-237-1	

**3.2 Mixtures**

Irrelevant

**SECTION 4. First aid measures****4.1. Description of first aid measures****Inhalation:**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated room.  
**CALL A PHYSICIAN.**

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area.  
If you feel unwell seek medical advice.

If breathing has stopped, give artificial respiration.

**Direct contact with skin (of the pure product):**

In case of contact with skin, wash immediately with water.

**Direct contact with eyes (of the pure product):**

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

**Ingestion:**

The product is highly toxic and can cause serious irreversible damages even following a single exposure if swallowed.  
Absolutely do not induce vomiting or emesis. Seek medical advice immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

**IF SWALLOWED:** Immediately contact a doctor and show him the label

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

Get medical advice attention if you feel unwell.

**SECTION 5. Firefighting measures****5.1. Extinguishing media****Advised extinguishing agents:**

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

**Extinguishing means to avoid:**

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

**5.2. Special hazards arising from the substance or mixture**

No data available.

**5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1 For non-emergency personnel:**

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

**6.1.2 For emergency responders:**

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

## 6.2. Environmental precautions

Contain spill  
Inform the competent authorities.  
Discharge the remains in compliance with the regulations

## 6.3. Methods and material for containment and cleaning up

### 6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing  
Recover the product for reuse, if possible, or the removal.

### 6.3.2 For cleaning up:

To clean the floor and all objects contaminated by this material use water  
After wiping up, wash with water the area and materials involved

### 6.3.3 Other information:

None in particular.

## 6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Wear protective gloves protective clothing eye protection face protection.  
In residential areas do not use on large surfaces.  
At work do not eat or drink.  
Do not eat, drink or smoke when using this product.  
Contaminated work clothing should not be allowed out of the workplace.  
See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.  
Keep containers upright and safe by avoiding the possibility of falls or collisions.  
Store in a cool place, away from sources of heat and direct exposure of sunlight.

### 7.3. Specific end use(s)

Professional use:  
Photographic and cinematographic treatment

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Related to contained substances:  
bis(4-hydroxy-N-methylanilinium) sulphate:  
Contains no substances with occupational exposure limit value.

### 8.2. Exposure controls

Appropriate engineering controls:  
Professional use:  
Not established  
Individual protection measures:  
(a) Eye / face protection  
Wear mask  
(b) Skin protection



- (i) Hand protection  
When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)
- (ii) Other  
When handling the pure product wear full protective skin clothing.
- (c) Respiratory protection  
Use adequate protective respiratory equipment (EN 14387:2008)
- (d) Thermal hazards  
No hazard to report
- Environmental exposure controls:  
Use according to good working practices to avoid pollution into the environment.

**SECTION9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	Powder	
Odour	non definito	
Odour threshold	undefined	
pH	undefined	pH METRO
Melting point/freezing point	Irrilevant	
Initial boiling point and boiling range	Not determined	
Flash point	non flammable	ASTM D92
Evaporation rate	Not determined	
Flammability (solid, gas)	Irrilevant	
Upper/lower flammability or explosive limits	undefined	
Vapour pressure	Not determined	
Vapour density	Not determined	
Relative density	undefined	
Solubility	in water	
Water solubility	Complete	
Partition coefficient: n-octanol/water	Not determined	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

**9.2. Other information**

No data available.

**SECTION10. Stability and reactivity****10.1. Reactivity**

Related to contained substances:  
bis(4-hydroxy-N-methylanilinium) sulphate:  
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**

Nothing to report

**10.5. Incompatible materials**

acid Anhydrides, acid chlorides, acids, oxidizing agents

**10.6. Hazardous decomposition products**

No data available

**SECTION 11. Toxicological information****11.1. Information on toxicological effects**

ATE oral = 9,4 mg/kg

ATE dermal = ∞

ATE inhal = ∞

(a) acute toxicity: Lethal product: do not ingest

bis(4-hydroxy-N-methylanilinium) sulphate: Oral LD50-mouse-565 mg/kg observations: behavior: somnolence (General depressed activity) behavior: shaking the kidney, ureter, bladder: other alterations of the composition of urine Oral-rat TDLo-9350 mg/kg

Remark: the endocrine system: other Blood abnormalities: abnormalities of the spleen

TDLo Oral-rat-

Remark: the kidney, ureter, bladder: alterations of the tubules (including renal failure, acute tubular necrosis) endocrine system: other alterations

(b) skin corrosion/irritation based on available data, the classification criteria are not met.

(c) serious eye damage/irritation: bis(4-hydroxy-N-methylanilinium) sulphate: Irritating to eyes, respiratory system and skin.

(d) respiratory or skin sensitization: The product, if brought into contact with skin can cause skin sensitization.

bis(4-hydroxy-N-methylanilinium) sulphate: May cause an allergic reaction on the skin.

(e) germ cell mutagenicity: based on available data, the classification criteria are not met.

(f) carcinogenicity: bis(4-hydroxy-N-methylanilinium) sulphate: IARC: no component of this product present at levels greater than or equal to 0.1%

identified as a known or anticipated carcinogen by IARC.

(g) reproductive toxicity: based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure Warning: This product can cause serious irreversible damages to man's health through prolonged or repeated exposure

(j) aspiration hazard: based on available data, the classification criteria are not met.

METOLO:

LD50 (rat) Oral (mg/kg body weight) = 9,35

Related to contained substances:

bis(4-hydroxy-N-methylanilinium) sulphate:

Exposure: the substance can be absorbed into the body by ingestion.

INHALATION RISK: there is no evidence to suggest that it can be reached a dangerous concentration in the air.

Effects of short-term EXPOSURE: the substance is moderately irritating to the skin and it is irritating to eyes and respiratory tract EFFECTS of repeated exposure or repeated or prolonged Contact in the long term: may cause skin sensitization. The substance can have effect on the blood, causing injury to blood cells.

Acute hazards/symptoms INHALATION cough. Sore throat.

SKIN Redness.

EYE Redness. Pain.

NOTE effects on humans from exposure to the substance have not been investigated adequately.

LD50 (rat) Oral (mg/kg body weight) = 9,35

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

bis(4-hydroxy-N-methylanilinium) sulphate:

No data available

The product is dangerous for the environment as it is very toxic to aquatic organisms following acute exposure.

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not contain any persistent, bioaccumulative toxic that considered both (PBT) or very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

### 12.6. Other adverse effects

Very toxic to aquatic organisms.

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Send to authorized discharge plants or for incineration under controlled conditions. Operate according to local and National rules in force

## SECTION 14. Transport information

### 14.1. UN number

ADR/RID/IMDG/ICAO-IATA: 3077

ADR exemption because compliance with the following characteristics:

Combination packagings: per inner packaging 5 kg per package 30 Kg  
Inner packagings placed in skrink-wrapped or stretch-wrapped trays: per inner packaging 5 kg per package 20 Kg



#### 14.2. UN proper shipping name

ADR/RID/IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate)

ICAO-IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate)

#### 14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 9

ADR/RID/IMDG/ICAO-IATA: Label : Limited quantities

ADR: Tunnel restriction code : --

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 5 kg

IMDG - EmS : F-A, S-F

#### 14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: III

#### 14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is environmentally hazardous

IMDG: Marine polluting agent : Yes

#### 14.6. Special precautions for user

The transport must be carried out by authorised vehicles carrying dangerous goods in accordance with the requirements of the current edition of the agreement A.D.R. applicable national provisions.

The transport must be carried out in the original packaging and in packages that are made from materials resistant to the content and not likely to generate with this dangerous reactions. Employees to the loading and unloading of dangerous goods have received proper training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

## SECTION 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Legislative Decree. 02/03/1997 n. 52 (Classification, packaging and labeling of dangerous substances). Legislative Decree 14/03/2003 n. 65 (Classification, packaging and labeling of dangerous substances). Legislative Decree. 02/02/2002 n. 25 (Risks related to chemical agents at work). D.M. 26/02/2004 Work (Exposure Limits Professional); D.M. 03/04/2007 (Implementation of Directive n. 2006/8 / EC). Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP), Regulation (EC) 790 / 2009.D.Lgs. September 21, 2005 n. 238 (Seveso Ter).

Seveso category:

H2 - ACUTE TOXIC

E1 - ENVIRONMENTAL HAZARDS

REGULATION (EU) No 1357/2014 - waste:

HP5 - Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

HP13 - Sensitising

HP14 - Ecotoxic

#### 15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety



## **SECTION 16. Other information**

### **16.1. Other information**

Description of the hazard statements exposed to point 3

H302 = Harmful if swallowed.

H317 = May cause an allergic skin reaction.

H373 = May cause damage to organs through prolonged or repeated exposure

H410 = Very toxic to aquatic life with long lasting effects.

Main normative references:

Directive 1999/45/EC

Directive 2001/60/EC

Regulation 1272/2008/EC

Regulation 2010/453/EC

Regolamento 529/2012 and subsequent updates

This data sheet cancels and replaces any previous edition.

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