

21070-2020  
21070-1109

## Ink, black contained in: edding 55

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 17 May 2019      Revision date: 17 May 2019      Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product form : Mixture  
Trade name : Ink, black contained in: edding 55

### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Ink

### 1.3. Supplier

edding International GmbH  
Bookkoppel 7  
22926 Ahrensburg  
Germany  
T: +49 (0) 4102-808-0  
[sdb\\_info@umco.de](mailto:sdb_info@umco.de)

c/o MBCA/edding  
2100 Ponce De Leon Blvd Ph 5  
Coral Gables, FL 33134  
USA  
T: +1 (305) 851-5631

### 1.4. Emergency telephone number

Emergency number : +1 (305) 851-5631 (9AM-5PM ET)

## SECTION 2: Hazard(s) identification

### 2.1. Classification of the substance or mixture

#### GHS-US classification

Acute toxicity (oral) Category 4 Harmful if swallowed

### 2.2. GHS Label elements, including precautionary statements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : Harmful if swallowed  
Precautionary statements (GHS US) : Wash hands thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
If swallowed: Call a poison center or doctor if you feel unwell  
Rinse mouth.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

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Name	Product identifier	%	GHS-US classification
Diethylene glycol	(CAS-No.) 111-46-6	25 - 50	Acute Tox. 4 (Oral), H302
Methyldiethanolamine	(CAS-No.) 105-59-9	< 3	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: None under normal use.
First-aid measures after skin contact	: Wash off with soap and plenty of water.
First-aid measures after eye contact	: Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice and attention.
First-aid measures after ingestion	: Rinse mouth. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Harmful if swallowed. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam. Water spray.
Unsuitable extinguishing media	: None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: On combustion, forms: carbon oxides (CO and CO <sub>2</sub> ).
Explosion hazard	: No direct explosion hazard.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Evacuate personnel to a safe area. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	: No additional risk management measures required.
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##### 6.1.2. For emergency responders

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No additional risk management measures required.

#### 6.2. Environmental precautions

Do not discharge into drains or the environment.

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

Methods for cleaning up	: No special decontamination procedures needed. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Collect spillage.
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#### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

- Precautions for safe handling : None reasonably foreseeable.  
 Hygiene measures : Use good personal hygiene practices. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

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

- Storage conditions : Keep container closed when not in use. Store tightly closed in a dry, cool and well-ventilated place.  
 Incompatible materials : Oxidizing agent. Acids.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

Diethylene glycol (111-46-6)		
AIHA	WEEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Methyldiethanolamine (105-59-9)		
Not applicable		

**8.2. Appropriate engineering controls**

No additional information available

**8.3. Individual protection measures/Personal protective equipment****Hand protection:**

Impermeable protective gloves

**Eye protection:**

Chemical goggles or safety glasses

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

- Physical state : Liquid  
 Appearance : Opaque.  
 Color : Black  
 Odor : Odorless  
 Odor threshold : No data available  
 pH : No data available  
 Melting point : No data available  
 Freezing point : No data available  
 Boiling point : No data available  
 Flash point : No data available  
 Relative evaporation rate (butyl acetate=1) : No data available  
 Flammability (solid, gas) : Not applicable.  
 Vapor pressure : No data available  
 Relative vapor density at 20 °C : No data available  
 Relative density : No data available  
 Solubility : Miscible with water.  
 Log Pow : No data available  
 Auto-ignition temperature : No data available  
 Decomposition temperature : No data available  
 Viscosity, kinematic : No data available  
 Viscosity, dynamic : No data available  
 Explosion limits : No data available  
 Explosive properties : No data available

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Oxidizing properties : No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidizing agent. Acids.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)  
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

ATE US (oral)	985 mg/kg body weight
<b>Diethylene glycol (111-46-6)</b>	
LD50 oral rat	12565 mg/kg
LD50 dermal rabbit	11890 mg/kg
LC50 inhalation rat (mg/l)	> 4600 mg/m <sup>3</sup> (Exposure time: 4 h)
ATE US (oral)	500 mg/kg body weight
<b>Methyldiethanolamine (105-59-9)</b>	
LD50 oral rat	1945 mg/kg
LC50 inhalation rat (mg/l)	> 6.5 mg/m <sup>3</sup> (Exposure time: 6 h)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)  
 Respiratory or skin sensitization : Not classified (Based on available data, the classification criteria are not met)  
 Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)  
 Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)  
 Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)  
 Specific target organ toxicity – single exposure : Not classified (Based on available data, the classification criteria are not met)  
 Specific target organ toxicity – repeated exposure : Not classified (Based on available data, the classification criteria are not met)  
 Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)  
 Viscosity, kinematic : No data available  
 Likely routes of exposure : Skin and eye contact. Ingestion. Inhalation.  
 Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.  
 Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.  
 Symptoms/effects after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.  
 Symptoms/effects after ingestion : Harmful if swallowed. Symptoms of ingestion include drowsiness, weakness, headache, dizziness, nausea, vomiting.

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**SECTION 12: Ecological information****12.1. Toxicity**

Ecology - general : This material has not been tested for environmental effects.

<b>Diethylene glycol (111-46-6)</b>	
LC50 fish 1	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Methyldiethanolamine (105-59-9)</b>	
LC50 fish 1	> 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
EC50 Daphnia 1	230 mg/l (Exposure time: 48 h - Species: Daphnia magna)

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

<b>Diethylene glycol (111-46-6)</b>	
BCF fish 1	100 - 180
Log Pow	-1.98 (at 25 °C)
<b>Methyldiethanolamine (105-59-9)</b>	
Log Pow	-1.08 (at 25 °C)

**12.4. Mobility in soil**

No additional information available

**12.5. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Disposal methods**

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

**SECTION 14: Transport information****Department of Transportation (DOT)**

In accordance with DOT

Not applicable

**Transportation of Dangerous Goods**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

**SECTION 15: Regulatory information****15.1. US Federal regulations**

<b>Diethylene glycol (111-46-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
<b>Methyldiethanolamine (105-59-9)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	

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**15.2. International regulations****CANADA****Diethylene glycol (111-46-6)**

Listed on the Canadian DSL (Domestic Substances List)

**Methyldiethanolamine (105-59-9)**

Listed on the Canadian DSL (Domestic Substances List)

**EU-Regulations****Diethylene glycol (111-46-6)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**Methyldiethanolamine (105-59-9)**

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

**National regulations****Diethylene glycol (111-46-6)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)

**Methyldiethanolamine (105-59-9)**

Listed on the AICS (Australian Inventory of Chemical Substances)  
 Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
 Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
 Listed on the Japanese ISHL (Industrial Safety and Health Law)  
 Listed on the Korean ECL (Existing Chemicals List)  
 Listed on NZIoC (New Zealand Inventory of Chemicals)  
 Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
 Listed on INSQ (Mexican National Inventory of Chemical Substances)  
 Listed on the TCSI (Taiwan Chemical Substance Inventory)

**15.3. US State regulations**

No additional information available

**SECTION 16: Other information**

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Revision date : 17 May 2019  
 Other information : Conforms to ASTM D-4236.

Full text of H-phrases:

H302	Harmful if swallowed
H319	Causes serious eye irritation

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*

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### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 21 May 2019      Revision date: 21 May 2019      Version: 1.0

#### SECTION 1: Identification

##### 1.1. Identification

Product form : Mixture  
Trade name : edding ink (other colors) contained in: edding 55

##### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Ink

##### 1.3. Supplier

edding International GmbH  
Bookkoppel 7  
22926 Ahrensburg  
Germany  
T: +49 (0) 4102-808-0  
[sdb\\_info@umco.de](mailto:sdb_info@umco.de)

c/o MBCA/edding  
2100 Ponce De Leon Blvd Ph 5  
Coral Gables, FL 33134  
USA  
T: +1 (305) 851-5631

##### 1.4. Emergency telephone number

Emergency number : +1 (305) 851-5631 (9AM-5PM ET)

#### SECTION 2: Hazard(s) identification

##### 2.1. Classification of the substance or mixture

###### GHS-US classification

Not classified

##### 2.2. GHS Label elements, including precautionary statements

###### GHS US labeling

No labeling applicable

##### 2.3. Other hazards which do not result in classification

No additional information available

##### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### SECTION 3: Composition/Information on ingredients

##### 3.1. Substances

Not applicable

##### 3.2. Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

#### SECTION 4: First-aid measures

##### 4.1. Description of first aid measures

First-aid measures after inhalation : None under normal use.  
First-aid measures after skin contact : Wash off with soap and plenty of water.  
First-aid measures after eye contact : Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice and attention.  
First-aid measures after ingestion : Rinse mouth. None under normal use.

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**4.2. Most important symptoms and effects (acute and delayed)**

Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

**4.3. Immediate medical attention and special treatment, if necessary**

Treat symptomatically.

**SECTION 5: Fire-fighting measures****5.1. Suitable (and unsuitable) extinguishing media**

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. carbon dioxide (CO2), dry chemical powder, foam. Water spray.
Unsuitable extinguishing media	: None known.

**5.2. Specific hazards arising from the chemical**

Fire hazard	: On combustion, forms: carbon oxides (CO and CO2).
Explosion hazard	: No direct explosion hazard.

**5.3. Special protective equipment and precautions for fire-fighters**

Firefighting instructions	: Evacuate personnel to a safe area. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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

Emergency procedures	: No additional risk management measures required.
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**6.1.2. For emergency responders**

Protective equipment	: For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: No additional risk management measures required.

**6.2. Environmental precautions**

Do not discharge into drains or the environment.

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

Methods for cleaning up	: No special decontamination procedures needed. Absorb remaining liquid with sand or inert absorbent and remove to safe place. Collect spillage.
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**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling	: None reasonably foreseeable.
Hygiene measures	: Use good personal hygiene practices.

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

Storage conditions	: Keep container closed when not in use. Store tightly closed in a dry, cool and well-ventilated place.
Incompatible materials	: Oxidizing agent. Acids.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

**8.2. Appropriate engineering controls**

No additional information available

**8.3. Individual protection measures/Personal protective equipment**

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#### Hand protection:

Impermeable protective gloves

#### Eye protection:

Chemical goggles or safety glasses

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Opaque.
Color	: Various
Odor	: Odorless
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Miscible with water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Oxidizing agent. Acids.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known at room temperature. On combustion, forms: carbon oxides (CO and CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

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Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – single exposure	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Likely routes of exposure	: Skin and eye contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects.

##### 12.2. Persistence and degradability

No additional information available

##### 12.3. Bioaccumulative potential

No additional information available

##### 12.4. Mobility in soil

No additional information available

##### 12.5. Other adverse effects

No additional information available

#### SECTION 13: Disposal considerations

##### 13.1. Disposal methods

Product/Packaging disposal recommendations : Recycle or dispose of in compliance with current legislation.

#### SECTION 14: Transport information

##### Department of Transportation (DOT)

In accordance with DOT

Not regulated

##### Transportation of Dangerous Goods

Not regulated

##### Transport by sea

Not regulated

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#### Air transport

Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

No additional information available

#### 15.2. International regulations

##### CANADA

No additional information available

##### EU-Regulations

No additional information available

##### National regulations

No additional information available

#### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 21 May 2019  
Other information : Conforms to ASTM D-4236.

SDS US (GHS HazCom 2012)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*