

Version No. 01/EN  
Revision N.A.  
Printing date 28 Mar. 2018

**SAFETY DATA SHEET**  
(according to Regulation EC 1907/2006)

**1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product identifier**

Trade name THE BLACK 33  
Registration no. The ingredients of this ink have been registered according to 1907/2006/EC (REACH)

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

Identified uses Water-soluble stationary ink

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

Company UCHIDA OF AMERICA, CORP.  
3535 Del Amo Blvd., Torrance, CA 90503

Telephone : +1-800-541-5877

: U : +1-800-229-7017

**1.4 Emergency telephone number** : +1-800-541-5877

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

**Information concerning particular hazards for human and environment:**

The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.

**Classification system:**

The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 Not applicable

Hazard pictograms Not applicable.

Signal word Not applicable.

Hazard statements Not applicable.

Precautionary statements Not applicable.

**2.3. Other hazards**

No further relevant information available

**Results of PBT and vPvB assessment**


**PBT:** Not applicable.

**vPvB:** Not applicable.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Mixture

Components	%	Classification
Water CAS No. Trade Secret EINECS: Trade Secret	78	The product does not require a hazard warning label in accordance with GHS criteria.
Poly ethylene glycol CAS No. Trade Secret EINECS: -	10	The product does not require a hazard warning label in accordance with GHS criteria.

Components	%	Classification
POLYACRYLIC ACID CAS No. Trade Secret EINECS: -	0.5	The product does not require a hazard warning label in accordance with GHS criteria.
TRIETHYLENE GLYCOL CAS No. Trade Secret EINECS: Trade Secret	3	The product does not require a hazard warning label in accordance with GHS criteria.
C. I. PIGMENT BLACK 7 CAS No. Trade Secret EINECS: Trade Secret	8	The product does not require a hazard warning label in accordance with GHS criteria.
2-Amino-2-methyl-1-propanol CAS No. Trade Secret EINECS: Trade Secret	0.5	 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin contact	Immediately wash with water and soap and rinse thoroughly.
Eye contact	Rinse opened eye for several minutes under running water.
Ingestion	If symptoms persist consult doctor.

### 5. FIRE FIGHTING MEASURES

#### 5.1 Extinguishing media

A fire extinguisher water, foam, CO<sub>2</sub>, NaHCO<sub>3</sub>

#### 5.2 Special hazards arising from the substance or mixture

None

#### 5.3 Advice for firefighters

Wear fully protective suit. Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.

#### 5.4 Special Information

No data available

### 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

#### 6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of spill into water course or sewage system.

Do not allow to enter to enter sewers/ surface or ground water.

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

No data available

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Store in cool, dry place in tightly close receptacles.  
Ensure good ventilation/exhaustion at the work place. Keep ignition sources away- Do not smoke.

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

Store in a cool location. Store away from sunlight.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1 Occupational exposure limits**

DNELs; Not available

PNECs; Not available

**8.2 Appropriate engineering controls**

No data available

**8.3 Personal protection equipment**

General protective and wash hands before breaks and at the end of work  
hygienic measures

Eye and face protection Tightly sealed goggles.

Respiratory protection Use suitable respiratory protective device in case of insufficient ventilation.

Hand protection The gloves material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

**9. PHYSICAL & CHEMICAL PROPERTIES**

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

Properties	Product (THE BLACK 33)	Properties	Product (THE BLACK 33)
Appearance	Liquid (BLACK)	Vapor pressure	No data available
Odor	Odorless	Vapor destiny	No data available
Odor threshold	No data available	Relative desiny	1.1 ± 0.05 g/cm <sup>3</sup>
PH	8.0 ± 1.0	Solubility	Fully miscible
Melting point/ Freezing point	No data available	Partition coefficient: n-octanol/ wate	No data available
Boiling point and range	>100°C	Auto-ignition temperature	No self-igniting
Flash point	No data available	Decomposition temperature	No data available
Evaporation ra	No data available	Viscosty	1100 ± 150 cps
Flammability (solid, gas)	No data available	Explosive properties	not explosive
Upper/lower flammability or explosive limits	No data available	Oxidizing properties	No data available

**SAFETY DATA SHEET**  
(according to Regulation EC 1907/2006)

**10. STABILITY AND REACTIVITY**

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reaction	No dangerous reactions known.
10.4 Conditions to avoid	No decomposition if used according to specifications.
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No dangerous decomposition product known.

**11. TOXICOLOGICAL INFORMATION**

11.1 Routes of exposure	No data available
11.2 Information on toxicological effects	
Acute toxicity	No data available
Skin corrosion/ irritation	No data available
Serious eye damage/ irritation	No data available
Respiratory or skin sensation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	This product is or contains a component that is probably not carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

**12. ECOLOGICAL INFORMATION**

12.1 Ecotoxicity	No data available
12.2 Persistence and degradability	Heavily removable from water.
12.3 Bioaccumulative potential	No data available
12.4 Mobility in soil	May be accumulated in organism
12.5 Other adverse effects	Do not allow undiluted product or large quantities of it to reach groundwater, water course or sewage system.

**13. DISPOSAL CONSIDERATIONS**

13.1 Disposal instructions	Must not be disposed together with household garbage. Do not allow product to reach sewage system.
13.2 Waste from residues / unused products	No data available
13.3 Contaminated packaging	No data available

**14. TRANSPORT INFORMATION**

14. TRANSPORT INFORMATION	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated as a hazardous for transportation.
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	Not regulated

## 15. REGULATORY INFORMATION

### 15.1 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006

### 15.2 Chemical Safety Assessment:

No data available

### 15.3 Inventory status

SARA

- Section 335 (extremely hazardous substance): Non of the ingredients is listed.
- Section 313 (Specific toxic chemical listings): Non of the ingredients is listed.
- TSCA (Toxic Substance Control Act): Non of the ingredients is listed.

Proposition 65

- known to cause cancer Non of the ingredients is listed.

- known to cause reproductive toxicity for meals Non of the ingredients is listed.

- known to cause developmental toxicity Non of the ingredients is listed.

Carcinogenicity categories

- EPA Non of the ingredients is listed.
- IARC Non of the ingredients is listed.
- NTP Non of the ingredients is listed.
- TLV Non of the ingredients is listed.
- NIOSH-Ca Non of the ingredients is listed.
- OSHA-Ca Non of the ingredients is listed.

## 16. OTHER INFORMATION

### 16. OTHER INFORMATION

The contents and format of this MSDS/SDS are in accordance with Regulation (EC) No 1907/2006.

Eu Commission Directive 1999/45/EC, 67/548/EEC.

#### • Reference

KOSHA - Chemical information database system  
Other MSDS (YOU&I Corporation, Sigma-aldrich, Science lab, Guidechem)  
International uniform Chemical Safety Cards (ICSC).  
Hazardous Substances Data Bank (HSDB) (<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)  
Corporate Solution From ThomsonMicromedex(<http://csi.micromedex.com>)  
ECB-ESIS (European chemical Substances Information System) (<http://ecb.jrc.it/esis>)  
ECOTOX Database, EPA (<http://cfpub.epa.gov/ecotox>)  
IUCLID Chemical Data Sheet, EC-ECB  
International Chemical Safety Cards (ICSC) (<http://www.nihs.go.jp/ICSC>)  
TOXNET, U.S. National Library of Medicine (<http://toxnet.nlm.nih.gov>)

#### • Abbreviation and acronyms

ACGIH - American Conference of Industrial Hygienists  
CAS - Chemical Abstracts Service  
EC - European Community  
EEC - The European Economic Community  
EPA - Environmental Protection Agency  
GHS - Global Harmonized System  
IARC - International Agency for Research on Cancer  
NIOSH - National Institute for Occupational Safety and Health  
NTP - The National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value established by ACGIH  
TWA - 8-hour Time Weighted Averages  
STOT - Specific Target Organ Toxicity

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# SAFETY DATA SHEET

(according to Regulation EC 1907/2006)

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- **Disclaimer of Liability**

This information is based on our present state of knowledge.  
It should not therefore be construed as guaranteeing specific properties of the products  
Described or their suitability for a particular application. YOU&I Coporation assumes  
no responsibility for personal injury or property damage caused by the material.  
Users assume all reisks associated with the use of the material.

\*\*\*\*\* End of Documents\*\*\*\*\*

**1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product identifier**

Trade name MGI- GOLD  
Registration no. The ingredients of this ink have been registered according to 1907/2006/EC (REACH)

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

Identified uses Water-soluble stationary ink

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

Company UCHIDA OF AMERICA, CORP.  
3535 Del Amo Blvd., Torrance, CA 90503

Telephone : +1-800-541-5877  
:U : +1-800-229-7017

**1.4 Emergency telephone number : +1-800-541-5877**

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008

**Information concerning particular hazards for human and environment:**

The product has not to be labelled due to the calculation procedure of Regulation 1272/2008/EC.

**Classification system:**

The classification is according to the latest edition of EU Regulation 1272/2008/EC, and extended by company and literature data.

**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 Not applicable

Hazard pictograms Not applicable.

Signal word Not applicable.

Hazard statements Not applicable.

Precautionary statements Not applicable.

**2.3. Other hazards**

No further relevant information available

**Results of PBT and vPvB assessment**


PBT: Not applicable.


vPvB: Not applicable.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Mixture**

Components	%	Classification
Water CAS No. Trade Secret EINECS: Trade Secret	60.8	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Glycerine CAS No. Trade Secret EINECS: Trade Secret	29	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Components	%	Classification
Poly ethylene glycol CAS No. Trade Secret EINECS: -	6	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Aluminium powder CAS No. Trade Secret EINECS: Trade Secret	1	 Flam. Sol. 1, H228; Water-react. 2, H261

C. I. PIGMENT YELLOW 83 CAS No. Trade Secret EINECS: Trade Secret	3	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
2-Amino-2-methyl-1-propanol CAS No. Trade Secret EINECS: Trade Secret	0.2	 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412

#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin contact	Immediately wash with water and soap and rinse thoroughly.
Eye contact	Rince opened eye for several minutes under running water.
Ingestion	If symptoms persist consult doctor.

#### 5. FIRE FIGHTING MEASURES

##### 5.1 Extinguishing media

A fire extinguisher water, foam, CO<sub>2</sub>, NaHCO<sub>3</sub>

##### 5.2 Special hazards arising from the substance or mixture

None

##### 5.3 Advice for firefighters

Wear fully protective suit. Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.

##### 5.4 Special Information

No data available

#### 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

##### 6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of spill into water course or sewage system.

Do not allow to enter to enter sewers/ surface or ground water.

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

No data available

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(according to Regulation EC 1907/2006)

#### 7. HANDLING AND STORAGE

##### 7.1 Precautions for safe handling

Store in cool, dry place in tightly close receptacles.

Ensure good ventilation/exhaustion at the work place. Keep ignition sources away- Do not smoke.

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

Store in a cool location. Store away from sunlight.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### 8.1 Occupational exposure limits

DNELs; Not available

PNECs; Not available

##### 8.2 Appropriate engineering controls

No data available

##### 8.3 Personal protection equipment

General protective and wash hands before breaks and at the end of work  
hygienic measures

Eye and face protection Tightly sealed goggles.

Respiratory protection Use suitable respiratory protective device in case of insufficient ventilation

Hand protection The gloves material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

#### 9. PHYSICAL & CHEMICAL PROPERTIES



9.1 Information on basic physical and chemical properties

Properties	Product (MGI-GOLD)	Properties	Product (MGI-GOLD)
Appearance	Liquid (GOLD)	Vapor pressure	No data available
Odor	Odorless	Vapor destiny	No data available
Odor threshold	No data available	Relative desiny	1.1 ± 0.05 g/cm <sup>3</sup>
PH	9.5 ± 1.0	Solubility	Fully miscible
Melting point/ Freezing point	No data available	partition coefficient: n-octanol/ wate	No data available
Boiling point and range	>100°C	Auto-ignition temperature	No self-igniting
Flash point	300°C	Decomposition temperature	No data available
Evaporation ra	No data available	Viscosty	750 ± 150 cps
Flammability (solid, gas)	No data available	Explosive properties	not explosive
Upper/lower flammability or explosive limits	No data available	Oxidizing properties	No data available

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**SAFETY DATA SHEET**  
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**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity No data available
- 10.2 Chemical stability Stable
- 10.3 Possibility of hazardous reactio No dangerous reactions known.
- 10.4 Conditions to avoid No decomposition if used according to specifications.
- 10.5 Incompatiable metarials No data available
- 10.6 Hazardous decomposition products No dangerous decomposition product known.

**11. TOXICOLOGICAL INFORMATION**

- 11.1 Routes of exposure No data available
- 11.2 Information on toxicological eff
  - Acute toxicity No data available
  - Skin corrosion/ irritation No data available
  - Serious eye damage/ irritation No data available
  - Respiratory or skin sensation No data available
  - Germ cell mutagenicity No data available
  - Carcinogenicity This product is or contains a component that is probably not carci based on its IARC, ACGIH, NTP, or EPA classification.
  - Reproductive toxicity No data available
  - STOT-single exposure No data available
  - STOT-repeated exposure No data available
  - Aspiration hazard No data available

**12. ECOLOGICAL INFORMATION**

- 12.1 Ecotoxicity No data available
- 12.2 Persistence and degradability Heavily removable from water.
- 12.3 Biocumulative potencial No data available
- 12.4 Mobility in soil May be accumulated in organism
- 12.5 Other adverse effects Do not allow undiluted product or large quantities of it to reach greound water, water course or sewage system.

**13. DISPOSAL CONSIDERATIONS**

- 13.1 Disposal instructions Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- 13.2 Waste from residues / unused products No data available
- 13.3 Contaminated packaging No data available

## 14. TRANSPORT INFORMATION

14. TRANSPORT INFORMATION	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated as a hazardous for transportation.
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	Not regulated

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## SAFETY DATA SHEET

(according to Regulation EC 1907/2006)

## 15. REGULATORY INFORMATION

### 15.1 Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No 1907/2006

### 15.2 Chemical Safety Assessment:

No data available

### 15.3 Inventory status

SARA

- |   |                                   |
|---|-----------------------------------|
| - Section 335 (extremely hazardous substance):    | Non of the ingredients is listed. |
| - Section 313 (Specific toxic chemical listings): | Non of the ingredients is listed. |
| - TSCA (Toxic Substance Control Act):             | Non of the ingredients is listed. |

Proposition 65

- |                         |                                   |
|-------------------------|-----------------------------------|
| - known to cause cancer | Non of the ingredients is listed. |
|-------------------------|-----------------------------------|

- |  |                                   |
|--|-----------------------------------|
| - known to cause reproductive toxicity for meals | Non of the ingredients is listed. |
|--|-----------------------------------|

- |   |                                   |
|---|-----------------------------------|
| - known to cause developmental toxicity | Non of the ingredients is listed. |
|---|-----------------------------------|

Carcinogenicity categories

- |            |                                   |
|------------|-----------------------------------|
| - EPA      | Non of the ingredients is listed. |
| - IARC     | Non of the ingredients is listed. |
| - NTP      | Non of the ingredients is listed. |
| - TLV      | Non of the ingredients is listed. |
| - NIOSH-Ca | Non of the ingredients is listed. |
| - OSHA-Ca  | Non of the ingredients is listed. |

## 16. OTHER INFORMATION

### 16. OTHER INFORMATION

1907/2006.

Eu Commission Directive 1999/45/EC, 67/548/EEC.

#### • Reference

KOSHA - Chemical information database system  
Other MSDS (YOU&I Corporation, Sigma-aldrich, Science lab, Guidechem)  
International uniform Chemical Safety Cards (ICSC).  
Hazardous Substances Data Bank (HSDB) (<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)  
Corporate Solution From ThomsonMicromedex (<http://csi.micromedex.com>)  
ECB-ESIS (European chemical Substances Information System) (<http://ecb.jrc.it/esis>)  
ECOTOX Database, EPA (<http://cfpub.epa.gov/ecotox>)  
IUCLID Chemical Data Sheet, EC-ECB  
International Chemical Safety Cards (ICSC) (<http://www.nihs.go.jp/ICSC>)  
TOXNET, U.S. National Library of Medicine (<http://toxnet.nlm.nih.gov>)

#### • Abbreviation and acronyms

ACGIH - American Conference of Industrial Hygienists  
CAS - Chemical Abstracts Service  
EC - European Community  
EEC - The European Economic Community  
EPA - Environmental Protection Agency  
GHS - Global Harmonized System  
IARC - International Agency for Research on Cancer  
NIOSH - National Institute for Occupational Safety and Health  
NTP - The National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value established by ACGIH  
TWA - 8-hour Time Weighted Averages

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It should not therefore be construed as guaranteeing specific properties of the products  
Described or their suitability for a particular application. YOU&I Coporation assumes  
no responsibility for personal injury or property damage caused by the material.  
Users assume all reisks associated with the use of the material.

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**1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product identifier**

Trade name MGI- SILVER  
Registration no. The ingredients of this ink have been registered according to 1907/2006/EC (REACH)

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

Identified uses Water-soluble stationary ink

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

Company UCHIDA OF AMERICA, CORP.  
3535 Del Amo Blvd., Torrance, CA 90503  
Telephone :+1-800-541-5877  
Fax :+1-800-229-7017

**1.4 Emergency telephone number** :+1-800-541-5877

**2. HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

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**Classification system:**

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**2.2 Label elements**

Labelling according to Regulation (EC) No 1272/2008 Not applicable  
Hazard pictograms Not applicable.  
Signal word Not applicable.  
Hazard statements Not applicable.  
Precautionary statements Not applicable.

**2.3. Other hazards**

No further relevant information available

**Results of PBT and vPvB assessment**


PBT: Not applicable.


vPvB: Not applicable.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

**3.1 Mixture**

Components	%	Classification
Water CAS No. Trade Secret EINECS: Trade Secret	63.8	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Glycerine CAS No.: Trade Secret EINECS: Trade Secret	29	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Components	%	Classification
Poly ethylene glycol CAS No. Trade Secret EINECS: -	6	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Aluminium powder CAS No. Trade Secret EINECS: Trade Secret	1	 Flam. Sol. 1, H228; Water-react. 2, H261

2-Amino-2-methyl-1-propanol CAS No. Trade Secret EINECS: Trade Secret	0.2	 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412
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#### 4. FIRST AID MEASURES

##### 4.1 Description of first aid measures

Inhalation	Supply fresh air; consult doctor in case of complaints.
Skin contact	Immediately wash with water and soap and rinse thoroughly.
Eye contact	Rince opened eye for several minutes under running water.
Ingestion	If symptoms persist consult doctor.

#### 5. FIRE FIGHTING MEASURES

##### 5.1 Extinguishing media

A fire extinguisher water, foam, CO<sub>2</sub>, NaHCO<sub>3</sub>

##### 5.2 Special hazards arising from the substance or mixture

None

##### 5.3 Advice for firefighters

Wear fully protective suit. Mouth respiratory protective device. Do not inhale explosion gases or combustion gases.

##### 5.4 Special Information

No data available

#### 6. ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Keep unprotected persons away.

##### 6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of spillage into water course or sewage system.

Do not allow to enter to enter sewers/ surface or ground water.

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

No data available

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#### 7. HANDLING AND STORAGE

##### 7.1 Precautions for safe handling

Store in cool, dry place in tightly close receptacles.

Ensure good ventilation/exhaustion at the work place. Keep ignition sources away- Do not smoke.

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

Store in a cool location. Store away from sunlight.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### 8.1 Occupational exposure limits

DNELs; Not available

PNECs; Not available

##### 8.2 Appropriate engineering controls

No data available

##### 8.3 Personal protection equipment

General protective and wash hands before breaks and at the end of work

hygienic measures

Eye and face protection Tightly sealed goggles.

Respiratory protection Use suitable respiratory protective device in case of insufficient ventilation

Hand protection The gloves material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

#### 9. PHYSICAL & CHEMICAL PROPERTIES

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

Properties	Product (MGI-SILVER)	Properties	Product (MGI-SILVER)
Appearance	Liquid (SILVER)	Vapor pressure	No data available
Odor	Odorless	Vapor destiny	No data available
Odor threshold	No data available	Relative desiny	1.1 ± 0.05 g/cm <sup>3</sup>
PH	9.5 ± 1.0	Solubility	Fully miscible
Melting point/ Freezing point	No data available	partition coefficient: n-octanol/ wate	No data available
Boiling point and range	>100°C	Auto-ignition temperature	No self-igniting
Flash point	300°C	Decomposition temperature	No data available
Evaporation ra	No data available	Viscosty	750 ± 150 cps
Flammability (solid, gas)	No data available	Explosive properties	not explosive
Upper/lower flammability or explosive limits	No data available	Oxidizing properties	No data available

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## SAFETY DATA SHEET

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### 10. STABILITY AND REACTIVITY

- 10.1 Reactivity No data available  
 10.2 Chemical stability Stable  
 10.3 Possibility of hazardous reaction: No dangerous reactions known.  
 10.4 Conditions to avoid No decomposition if used according to specifications.  
 10.5 Incompatiable metarials No data available  
 10.6 Hazardous decomposition products No dangerous decomposition product known.

### 11. TOXICOLOGICAL INFORMATION

- 11.1 Routes of exposure No data available  
 11.2 Information on toxicological effe  
 Acute toxicity No data available  
 Skin corrosion/ irritation No data available  
 Serious eye damage/ irritation No data available  
 Respiratory or skin sensation No data available  
 Germ cell mutagenicity No data available  
 Carcinogenicity This product is or contains a component that is probably not carci based on its IARC, ACGIH, NTP, or EPA classification.  
 Reproductive toxicity No data available  
 STOT-single exposure No data available  
 STOT-repeated exposure No data available  
 Aspiration hazard No data available

### 12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity No data available  
 12.2 Persistence and degradability Heavily removable from water.  
 12.3 Biocummulative potencial No data available  
 12.4 Mobility in soil May be accumulated in organism  
 12.5 Other adverse effects Do not allow undiluted product or large quantities of it to reach greound water, water course or sewage system.

### 13. DISPOSAL CONSIDERATIONS

- 13.1 Disposal instructions Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 13.2 Waste from residues / unused products No data available  
 13.3 Contaminated packaging No data available

## 14. TRANSPORT INFORMATION

14. TRANSPORT INFORMATION	
14.1 UN number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated as a hazardous for transportation.
14.4 Packing group	Not regulated
14.5 Enviromental hazards	No
14.6 Special precautions for user	Not regulated

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## SAFETY DATA SHEET

(according to Regulation EC 1907/2006)

## 15. REGULATORY INFORMATION

### 15.1 Regulatory information

This is safety datasheet complies with the requirments of Regulation (EC) No 1907/2006

### 15.2 Chemical Dafety Assessment:

No data available

### 15.3 Iventory status

SARA

- |  |                                   |
|--|-----------------------------------|
| - Section 335 (extremely hazardous substance):     | Non of the ingredients is listed. |
| - Section 313 (Speciafic toxic chemical listings): | Non of the ingredients is listed. |
| - TSCA(Toxic Substance Control Act):               | Non of the ingredients is listed. |

Proposition 65

- |  |                                   |
|--|-----------------------------------|
| - known to cause cancer                          | Non of the ingredients is listed. |
| - known to cause reproductive toxicity for meals | Non of the ingredients is listed. |
| - known to cause developmental toxicity          | Non of the ingredients is listed. |

Carcinogenicity categories

- |            |                                   |
|------------|-----------------------------------|
| - EPA      | Non of the ingredients is listed. |
| - IARC     | Non of the ingredients is listed. |
| - NTP      | Non of the ingredients is listed. |
| - TLV      | Non of the ingredients is listed. |
| - NIOSH-Ca | Non of the ingredients is listed. |
| - OSHA-Ca  | Non of the ingredients is listed. |

## 16. OTHER INFORMATION

### 16. OTHER INFORMATION

The contents and format of this MSDS/SDS are in accordance with Regulation (EC) No 1907/2006.

Eu Commission Directive 1999/45/EC, 67/548/EEC.

#### • Reference

KOSHA - Chemical information database system  
Other MSDS (YOU&I Corporation, Sigma-aldrich, Science lab, Guidechem)  
International uniform Chemical Safety Cards (ICSC).  
Hazardous Substances Data Bank (HSDB) (<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)  
Corporate Solution From ThomsonMicromedex(<http://csi.micromedex.com>)  
ECB-ESIS(European chemical Substances Information System) (<http://ecb.jrc.it/esis>)  
ECOTOX Database, EPA(<http://cfpub.epa.gov/ecotox>)  
IUCLID Chemical Data Sheet, EC-ECB  
International Chemical Safety Cards(ICSC) (<http://www.nihs.go.jp/ICSC>)  
TOXNET, U. S. National Library of Medicine(<http://toxnet.nlm.nih.gov>)

#### • Abbreviation and acronyms

ACGIH - American Conference of Industrial Hygiensts  
CAS - Chmical Abstracts Service  
EC - European Community  
EEC - The European Economic Community  
EPA - Environmental Protection Agency  
GHS- Global Harmonized System  
IARC - International Agency for Research on Cancer  
NIOSH - National Institute for Occupational Satety and Health  
NTP - The National Toxicology Program  
OSHA - Occupational Safety and Health Administration  
TLV - Thhreshold Limit Value established by ACGIH

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**SAFETY DATA SHEET**  
(according to Regulation EC 1907/2006)

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