

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 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.

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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, CO₂, NaHCO₃

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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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 ³
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
 (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 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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• **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.

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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

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	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, CO₂, NaHCO₃

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 ³
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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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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(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>)
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• Abbreviation and acronyms

ACGIH - American Conference of Industrial Hygiensts
CAS - Chmical Abstracts Servicee
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

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

1.1 Product identifier

Trade name PGI- WHITE

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

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.

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SAFETY DATA SHEET

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3. COMPOSITION / INFORMATION ON INGREDIENS

3.1 Mixture

Components	%	Classification
Water CAS No. Trade Secret EINECS: Trade Secret	71	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Glycerine CAS No. Trade Secret EINECS: Trade Secret	10	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

Components	%	Classification
TITANIUM DIOXIDE CAS No. Trade Secret EINECS: Trade Secret	8	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
PROPYLENE GLYCOL CAS No. Trade Secret EINECS: Trade Secret	10	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008
XANTHAN GUM CAS No. Trade Secret EINECS: Trade Secret	1	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

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, CO₂, NaHCO₃

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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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 hygienic measures

Eye and face protection Tightly sealed goggles.

Respiratory protection Use suitable respiratory protective device in case of insufficient

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 (PGI-WHITE)	Properties	Product (PGI-WHITE)
Appearance	Liquid (WHITE)	Vapor pressure	No data available
Odor	Odorless	Vapor destiny	No data available
Odor threshold	No data available	Relative desiny	1.2 ± 0.05 g/cm ³
PH	8.0 ± 1.0	Solubility	Fully miscible
Melting point/ Freezing point	No data available	partition coefficient: n-octanol/ water	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 rate	No data available	Viscosity	1600 ± 200 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 reactions 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
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 ground 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

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