

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

1.1 Product identifier

Trade name: **GID- BLACK**
Registration no.: The ingredients of this ink have been pre-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: **YOU&I COPORATION**
40, 19Beon-gil, Sandan-ro, Danwon-gu, Ansan-si, Gyenggi-o, Korea
(Zip code) 425-851
Telephone: **82-31-494-2030**
E-mail: tech@youicolor.com

1.4 Emergency telephone number 82-31-494-2030 (This number is serviced during office hours only.)

2. HAZARDS IDENTIFICATION

2.1.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]
Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008 [CLP]

2.1.2. Classification according to Directive 1999/45/EC

This substance is not classified as dangerous according to Directive 67/ 548/ EEC.



H315 Causes skin irritation.

2.2 Label elements

The product need to be labelled in accordance with EC directives or respective national laws.

Symbol



Signal word: **Warning**
H319 causes serious eye irritation
H315 Causes skin irritation.

hazard Statement: **H372 Prolonged or repeated exposure causes damage to the body**

Precautionary statement: **Prevention**
P201 Obtain special instructions before use.
P264 Wash ... thoroughly after handling
P271 Use only outdoors or in a well ventilated area
P280 Wear protective gloves/protective clothing/eye protection/ face protection.

Response
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.

Storage
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up

Disposal
P501 Dispose of contents/container to ...

2.3. Other hazards

Health	1
Flammability	1
Reactivity	0

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Mixture

Components	%	Classification
Water CAS No. 7732-18-5 EINECS: 231-791-2	<40	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
Glycerine CAS No.: 56-81-5 EINECS: 200-289-5	<30	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008

Components	%	Classification
C. I. DIRECT BLACK 168 CAS No. 85631-88-5 EINECS: 288-038-6	<10	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
ETHYLENE GLYCOL CAS No. 107-21-1 EINECS: 203-473-3	<5	Reproductive toxicity Cat. 1B Specific target organ toxicity following single exposure Cat 2 -H372 Prolonged or repeated exposure causes damage to the body
XANTHAN GUM CAS No. 11138-66-2 EINECS: 234-394-2	<20	Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008
TRIETHANOLAMINE CAS No. 102-71-6 EINECS: 203-049-8	<1	Skin sensitization; Cat. 1 Skin irritation; Cat. 2 Eye irritation; Cat. 2 Specific target organ toxicity following single exposure; Cat. 3 -H317 May cause an allergic skin reaction -H315 Causes skin irritation. -H319 Cause serous eye irritation. -H335 Respiratory tract irritation.

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



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 CONTOLS / 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 (GID-BLACK)	Properties	Product (GID-BLACK)
Appearance	Liquid (BLACK)	Vapor pressure	No data available
Odor	Odorless	Vapor density	No data available
Odor threshold	No data available	Relative density	1.1 ± 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	900 ± 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

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 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 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 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 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 Enviromental hazards	No
14.6 Special precautions for user	Not regulated



15. REGULATORY INFORMATION

15.1 Regulatory information

This is safety datasheet complies with the requirments of Regulation (EC) No 1272/2008 [CLP]

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 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 Sauty 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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