

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

- A. GHS product identifier Blondiee® Fine Gold N-2001D
- B. Recommended use of the chemical and restrictions on use
Recommended use Cosmetic
Restrictions on use Not available
- C. Manufacturers
Company name CQV Co., Ltd.
Address 144, Seongjung-Ro, Jincheon-Eup, Jincheon-Gun, Chungbuk-Do, Korea
Emergency phone number 82-43-531-2500
Respondent Byung-Ki Choi
Fax 82-43-536-0314

2. Hazards identification

- A. GHS classification of the substance/mixture
Not classified
- B. GHS label elements, including precautionary statements
Pictogram and symbol : Not applicable
Signal word : Not applicable
Hazard statements : Not applicable
Precautionary statements
Precaution : Not applicable
Treatment : Not applicable
Storage : Not applicable
Disposal : Not applicable
- C. Other hazard information not included in hazard classification (NFPA)
Health 0
Flammability Not available
Reactivity Not available

3. Composition/information on ingredients

| Chemical Name (INCI Name) | CAS number | EC number | Content (%) |
|-----------------------------|------------|-----------|-------------|
| Mica (CI 77019) | 12001-26-2 | 310-127-6 | 44 - 63 |
| Tin Oxide (CI 77861) | 18282-10-5 | 242-159-0 | 0 - 1 |
| Titanium Dioxide (CI 77891) | 13463-67-7 | 236-675-5 | 19 - 29 |
| Iron Oxides (CI 77491) | 1309-37-1 | 215-168-2 | 18 - 26 |

4. First aid measures

- A. Eye contact
- Call emergency medical service.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- B. Skin contact

- Call emergency medical service.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

C. Inhalation

- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.

D. Ingestion

- Call emergency medical service.

E. Indication of immediate medical attention and notes for physician

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. Fire fighting measures

A. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media: Dry sand, dry chemical, alcohol-resistant foam, water spray, regular foam, CO₂
- Unsuitable extinguishing media: High pressure water streams

B. Specific hazards arising from the chemical

- If inhaled, may be harmful.

C. Special protective equipment and precautions for fire-fighters

- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.
- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.

6. Accidental release measures

A. Personal precautions, protective equipment and emergency procedures

- Do not touch or walk through spilled material.
- Stop leak if you can do it without risk.
- Prevent dust cloud.
- Please note that there are materials and conditions to avoid.

B. Environmental precautions and protective procedures

- Prevent entry into waterways, sewers, basements or confined areas.

C. The methods of purification and removal

- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
- Powder Spill; Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Small Spill; Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

7. Handling and storage

A. Precautions for safe handling

- Please note that materials and conditions to avoid.
- Wash thoroughly after handling.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

B. Conditions for safe storage

- Store in a closed container.
- Store in cool and dry place.

8. Exposure controls/personal protection

A. Occupational Exposure limits

Korea regulation

Mica TWA = 3 mg/m³

Titanium Dioxide TWA = 10 mg/m³

Iron Oxides of oxygen(< 19.5%), wear the supplied-air respirator or self-contained breathing apparatus.oxygen

Eye protection

- Wear facepiece with goggles to protect.
- An eye wash unit and safety shower station should be available nearby work place.
- Wear breathable safety goggles to protect from particulate material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

Hand protection

- Wear chemical resistant gloves.
- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

Body protection

- Wear appropriate protective chemical resistant clothing.
- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

9. Physical and chemical properties

A. Appearance

Description Powder

Color Fine yellowish

B. Odor No odor

C. Odor threshold Not available

D. pH 7 - 11

E. Melting point/freezing point Not available

F. Initial boiling point and boiling range Not available

G. Flash point Not available

H. Evaporation rate Not available

I. Flammability (solid, gas) Not applicable

J. Upper/lower flammability or explosive limits Not available

K. Vapor pressure Not available

L. Solubility (ies) Not available

M. Vapor density Not available

N. Specific gravity 3.1 - 3.5 g/cm³

O. Partition coefficient: n-octanol/water Not available

- P. Auto ignition temperature Not available
Q. Decomposition temperature Not available
R. Viscosity Not available
S. Molecular weight Not available

10. Stability and reactivity

A. Chemical stability and Possibility of hazardous reactions:

- If inhaled, may be harmful.

B. Conditions to avoid:

- Heat, sparks or flames

C. Incompatible materials:

- Combustibles

D. Hazardous decomposition products:

- Not available

11. Toxicological information

A. Information of Health Hazardous

Acute toxicity

Oral : Not classified

- **Tin oxide** : Rat LD₅₀ > 9,000 mg/kg
- **Titanium dioxide** : Rat LD₅₀ > 5,000 mg/kg (OECD Guideline 425, EPA OPPTS 870.1100)
- **Iron Oxides** : Rat LD₅₀ > 5,000 mg/kg (EU Method B.1)

Dermal : Not available

Inhalation : Not classified

- **Tin oxide** : Rat LC₅₀ > 5 mg/L/4hr (OECD TG 403, GLP)
- **Titanium dioxide** : Rat LC₅₀ > 6.82 mg/L/4hr
- **Iron Oxides** : Rat LD₅₀ = mg/L Rat = 8.5 mg/kg bw/day

Skin corrosion/ irritation : Not classified

- **Tin oxide** : Skin irritation test using rabbit, not skin irritation. (OECD TG 404)
- **Titanium dioxide** : In test on skin irritation with rabbits, skin irritations were not observed. (OECD Guideline 404)
- **Iron Oxides** : As a result of skin irritation test using rabbit, skin irritation was not observed. (OECD TG 404, GLP)

Serious eye damage/ irritation : Not classified

- **Tin oxide** : The test substance was not irritating to the rabbit eyes. (OECD TG 405)
- **Titanium dioxide** : In test on eye irritation with rabbits, eye irritations were not observed. (OECD Guideline 405, EU Method B.5, EPA OPPTS 870.2400)
- **Iron Oxides** : As a result of eye irritation test using rabbit, eye irritation was not observed. (OECD TG 405, GLP)

Respiratory sensitization : Not classified

- **Titanium dioxide** : Titanium oxide does not show respiratory sensitizing properties in animal studies or in exposure related observations in humans.

Skin sensitization : Not classified

- **Tin oxide** : No activation of the lymph nodes of mice were observed in the LLNA performed with the test material. (OECD TG 429)
- **Titanium dioxide** : In test on skin sensitization with guinea pig, skin sensitizations were not observed. (OECD Guideline 406, EU Method B.6, EPA OPP 81-6, GLP)

– **Iron Oxides** : As a result of skin sensitization test using guinea pig, it does not cause skin sensitization.

Carcinogenicity : Not classified

Mutagenicity : Not classified

– **Mica** : With cell test system, macrophage-like cells (P388 D1), kaolin and mica ($r=0.58$) showed significant positive correlation with cytotoxicity for high-rank coal dusts but not for low.

– **Tin oxide** : Negative reactions were observed in these in vitro genotoxicity studies (bacterial reverse mutation assay (e.g. Ames test) (gene mutation) (OECD Guideline 471), mammalian cell gene mutation assay (OECD Guideline 476), mammalian cell micronucleus test (OECD Guideline 487)).

– **Titanium dioxide** : Negative reactions were observed in in vitro (mammalian cell gene mutation test (OECD Guideline 476, GLP), mammalian chromosome aberration test (OECD Guideline 473, GLP), bacterial reverse mutation assay (OECD Guideline 471)) and in in vivo (micronucleus assay).

– **Iron Oxides** : Negative reactions were observed in both in vitro (mammalian chromosome aberration test (OECD TG 473, GLP, read across), Ames test (read across), mammalian cell gene mutation assay (OECD TG 476, GLP, read across)) and in vivo comet assay.

Reproductive toxicity : Not classified

– **Titanium dioxide** : Based on the weight of evidence from the available long-term toxicity/carcinogenicity studies in rodents and the relevant information on the toxicokinetic behaviour in rats it is concluded that TiO₂ does not present a reproductive toxicity hazard.

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeat exposure) : Not classified

– **Mica** : Not available

– **Tin oxide** : No toxicity related symptoms were observed in the 13-week repeat oral administration toxicity test using rats. (NOAEL ≥ 10000 mg / kg)

– **Titanium dioxide** : Titanium dioxide did not show any adverse effects whatsoever in a chronic oral repeated dose toxicity study in rats, with a NOAEL of 3500 mg/kg bw/day. Titanium dioxide is not absorbed to any relevant extent through human skin, thus no toxic effects can be expected via the dermal route of exposure. Titanium dioxide showed fibrogenic effects in a chronic inhalation repeated dose toxicity study in rats with a NOAEC of 10 mg/m³.

– **Iron Oxides** : No adverse effects were observed in sub-chronic inhalation toxicity studies for 90 days with rats. (NOAEC = 4.7 mg/m³) (OECD TG 413)

Aspiration Hazard : Not available

12. Ecological information

A. Ecological toxicity

– Acute toxicity : Not classified

– Chronic toxicity : Not available

Fish

– **Titanium dioxide** : 96hr-NOEC (*Oncorhynchus mykiss*) > 100 mg/L (OECD Guideline 203)

– **Iron Oxides** : 96hr-LC₀ (*Brachydanio rerio*) ≥ 50000 mg/L

crustacean

– **Iron Oxides** : 48hr-EC₅₀ (*Daphnia magna*) > 100 mg/L (OECD TG 202, GLP)

Algae

- **Titanium dioxide** : 72hr-EC₅₀ (other) = 61 mg/L , 72hr-NOEC(Pseudokirchnerella subcapitata) = 12.7 mg/L

B. Persistence and degradability

Persistence

- **Tin oxide** : Low persistency (log Kow is less than 4 estimated.) (Log Kow = 1.29) (estimated)
- **Titanium dioxide** : Low persistency (log Kow is less than 4 estimated.) (Log Kow = 2.23) (estimated)
- **Iron Oxides** : Low persistency (log Kow is less than 4 estimated.) (Log Kow = 0.97) (estimated)

Degradability : Not available

C. Bioaccumulative potential

Bioaccumulation

- **Tin oxide** : Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 100) (estimated)
- **Titanium dioxide** : Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 13.73) (estimated)
- **Iron Oxides** : Bioaccumulation is expected to be low according to the BCF < 500 (BCF = 3.162) (estimated)

Biodegradation

- **Tin oxide** : not readily biodegradable (estimated)
- **Titanium dioxide** : not readily biodegradable (estimated)
- **Iron Oxides** : not readily biodegradable (estimated)

D. Mobility in soil

- **Tin oxide** : Low potency of mobility to soil. (Koc = 13.16) (estimated)
- **Titanium dioxide** : Low potency of mobility to soil. (Koc = 86.1) (estimated)
- **Iron Oxides** : Low potency of mobility to soil. (Koc = 6.942) (estimated)

E. Other hazardous effect : Not available

F. HAZARDOUS TO THE OZONE LAYER : Not classified

13. Disposal considerations

A. Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

B. Disposal precaution

Consider the required attentions in accordance with waste treatment management regulation.

14. Transport information

A. UN Number Not applicable

B. UN Proper shipping name Not applicable

C. Transport Hazard class Not applicable

D. Packing group Not applicable

E. Marine pollutant Not applicable

F. IMDG/IATA/ICAO Not applicable

G. Special precautions

in case of fire Not applicable

in case of leakage Not applicable

15. Regulatory information

A. Occupational Safety and Health Regulation

Mica : Occupational exposure limits listed

Mica : Work environment monitoring listed

Tin Oxide : Work environment monitoring listed (6 months)

Tin Oxide : Administration subject listed

Titanium Dioxide : Administration subject listed

Titanium Dioxide : Occupational exposure limits listed

Titanium Dioxide : Work environment monitoring listed (6 months)

Iron Oxides : Administration subject listed

Iron Oxides : Occupational exposure limits listed

Iron Oxides : Work environment monitoring listed (6 months)

Iron Oxides : Health examination agent (12 months)

B. Chemical Control Act

Mica : Existing Chemical Substance (KE-25420)

Tin oxide : Existing Chemical Substance (KE-33849)

Titanium dioxide : Existing Chemical Substance KE-33900

Iron Oxides : Existing Chemical Substance (KE-10897)

C. Dangerous Material Safety Management Regulation

Tin oxide : Dangerous Material Safety Management Regulation

Titanium dioxide : Dangerous Material Safety Management Regulation

Iron Oxides : Dangerous Material Safety Management Regulation

D. Wastes Control Act

Mica : Wastes Control Act Controlled Wastes

E. Other regulation (internal and external)

Internal information

Persistent Organic Pollutants Acts : Not regulated

② Foreign Regulatory Information

External information

EU classification(classification)

Mica : Not classified

Tin oxide : Not classified

Titanium dioxide : Not classified

Iron Oxides : Not classified

EU classification(risk phrases)

Mica : Not applicable

Tin oxide : Not applicable

Titanium dioxide : Not applicable

Iron Oxides : Not applicable

EU classification(safety phrases)

Mica : Not applicable

Tin oxide : Not applicable

Titanium dioxide : Not applicable

Iron Oxides : Not applicable

EU SVHC list : Not regulated

EU Authorisation List : Not regulated

EU Restriction list : Not regulated

U.S.A management information (OSHA Regulation) : Not regulated

U.S.A management information (CERCLA Regulation) : Not regulated

U.S.A management information (EPCRA 302 Regulation) : Not regulated

U.S.A management information (EPCRA 304 Regulation) : Not regulated

U.S.A management information (EPCRA 313 Regulation) : Not regulated

Substance of Roterdame Protocol : Not regulated

Substance of Stockholme Protocol : Not regulated

Substance of Montreal Protocol : Not regulated

Foreign Inventory Status

Mica

China management information Inventory of Existing Chemical Substances (IECSC): Present

Canada management information Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

New Zealand management information Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.

Philippines management information Inventory of Chemicals and Chemical Substances (PICCS): Present

Tin oxide

U.S.A management information Section 8(b) Inventory (TSCA): Present

Japan management information Existing and New Chemical Substances (ENCS): (1)–551

Japan management information ISHL Harmful Substances Whose Names Are to be Indicated on the Label: $\geq 1\%$ weight

Japan management information ISHL Notifiable Substances: $\geq 0.1\%$ weight

China management information Inventory of Existing Chemical Substances (IECSC): Present 37645

Canada management information Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

New Zealand management information Inventory of Chemicals (NZIoC): HSNO Approval: HSR002805

Philippines management information Inventory of Chemicals and Chemical Substances (PICCS): Present

Titanium dioxide

U.S.A management information Section 8(b) Inventory (TSCA): Present

Japan management information Existing and New Chemical Substances (ENCS): (5)–5225, (1)–558

Japan management information ISHL Harmful Substances Whose Names Are to be Indicated on the Label: $\geq 1\%$ weight

Japan management information ISHL Notifiable Substances: $\geq 0.1\%$ weight

China management information Inventory of Existing Chemical Substances (IECSC): Present 11377

Canada management information Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

New Zealand management information Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.

Philippines management information Inventory of Chemicals and Chemical Substances (PICCS): Present

Iron Oxides

U.S.A management information Section 8(b) Inventory (TSCA): Present

Japan management information Existing and New Chemical Substances (ENCS): (5)–5188, (1)–357

Japan management information ISHL Harmful Substances Whose Names Are to be Indicated on the Label: \geq 1% weight

Japan management information ISHL Notifiable Substances: \geq 1% weight

China management information Inventory of Existing Chemical Substances (IECSC): Present 29712

Canada management information Domestic Substances List (DSL): Present

Australia management information Inventory of Chemical Substances (AICS): Present

New Zealand management information Inventory of Chemicals (NZIoC): May be used as a single component chemical under an appropriate group standard.

Philippines management information Inventory of Chemicals and Chemical Substances (PICCS): Present

16. Other information

A. Information source and references

Emergency Response Guidebook 2008;

http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/erg2008_eng.pdf

U.S. National library of Medicine(NLM) Hazardous Substances Data Bank(HSDB);

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>

National Emergency Management Agency–Korea dangerous material inventory management system; <http://www.nema.go.kr/hazmat/main/main.jsp>

Korea Occupational Health & Safety Agency; <http://www.kosha.net>

Ministry of Public Safety and Security–Korea dangerous material inventory management system; <http://hazmat.mpss.kfi.or.kr/index.do>

EPISUITE v4.11; <http://www.epa.gov/opt/exposure/pubs/episuitedl.html>

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans;

<http://monographs.iarc.fr>

TOMES–LOLI®; <http://www.rightanswerknowledge.com/loginRA.asp>

National Chemicals Information System; <http://ncis.nier.go.kr/ncis/>

Waste Control Act enforcement regulation attached [1]

REACH information on registered substances; <https://echa.europa.eu/information-on-chemicals/registered-substances>

American Conference of Governmental Industrial Hygienists TLVs and BEIs.

NIOSH Pocket Guide; <http://www.cdc.gov/niosh/npg/npgdcas.html>

National Institute of Technology and Evaluation(NITE);

<http://www.safe.nite.go.jp/english/db.html>

REACH information on registered substances;

<http://apps.echa.europa.eu/registered/registered-sub.aspx>

National Toxicology Program; <http://ntp.niehs.nih.gov/results/dbsearch/>

Korea Maritime Dangerous Goods Inspection Center; <http://www.komdi.or.kr/index.html>

EU CLP; <https://echa.europa.eu/information-on-chemicals/cl-inventory-database>

B. Issuing date 01–10–2011

C. Revision number and date

revision number 7

date of the latest revision 01–04–2024

D. Others

- Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

- The product must not be used for any purposes other than those specified under

heading 1 without first obtaining written handling instructions.

- It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.
- The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.