

# GHS Safety Data Sheet

## PANAX YELLOW 1323

### 1. IDENTIFICATION

#### A. Product name

- PANAX YELLOW 1323

#### B. Recommended use and restriction on use

- General use : Colorant  
- Restriction on use : Unknown

#### C. Supplier information

- Company name : UKSEUNG CHEMICAL CO., LTD.  
- Address : 174, Gaejwa-ro, Geumjeong-gu, Busan, Korea  
- Telephone number : +82-51-718-5340, 5345

### 2. HAZARD IDENTIFICATION

#### A. GHS Classification

Acute toxicity (oral): Category 4  
Skin sensitization: Category 1

#### B. GHS label elements

##### o Hazard symbols



##### o Signal words

- Warning

##### o Hazard statements

- H302 Harmful if swallowed  
- H317 May cause an allergic skin reaction

##### o Precautionary statements

###### 1) Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
- P264 Wash hands thoroughly after handling.  
- P270 Do not eat, drink or smoke when using this product.  
- P272 Contaminated work clothing should not be allowed out of the workplace.  
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

###### 2) Response

- P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
- P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
- P321 Specific treatment  
- P330 Rinse mouth.  
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
- P362+P364 Take off contaminated clothing and wash it before reuse.

###### 3) Storage

- Not available

###### 4) Disposal

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation

#### C. Other hazards which do not result in classification : (NFPA Classification)

○ **NFPA grade (0 ~ 4 level)**

- Health : 1, Flammability : 1, Reactivity : 0

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Trade names and Synonyms	CAS No.	Content(%)
2,2'-[(3,3'-dichloro[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[N-(2,4-dimethylphenyl)-3-oxobutyramide]	C.I. Pigment Yellow 13	5102-83-0	87 ~ 92
Calcium carbonate	Carbonic acid calcium salt (1:1)	471-34-1	7 ~ 10
Dispersing agent		trade secret	1 ~ 3

### 4. FIRST AID MEASURES

#### A. Eye contact

- In case of contact with material, immediately flush eyes with running water for at least 20 minutes.
- Get medical attention immediately

#### B. Skin contact

- Flush skin with plenty of water for at least 20 minutes while removing contaminated clothing and shoes.
- Laundering enough contaminated clothing before reuse.
- Go to the hospital immediately if symptoms (flare, irritate) occur.
- Wash thoroughly after handling.

#### C. Inhalation contact

- When exposed to large amounts of steam and mist, move to fresh air.
- Take specific treatment if needed.

#### D. Ingestion contact

- About whether I should induce vomiting Take the advice of a doctor.
- Rinse your mouth with water immediately.

#### E. Delayed and immediate effects and also chronic effects from short and long term exposure

- Not available

#### F. Notes to physician

- Notify medical personnel of contaminated situations and have them take appropriate protective measures.

### 5. FIREFIGHTING MEASURES

#### A. Suitable (Unsuitable) extinguishing media

- Dry chemical, carbon dioxide, regular foam extinguishing agent, spray
- Avoid use of water jet for extinguishing

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

- Not available

#### C. Special protective actions for firefighters

- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Using a unattended and water devices in case of large fire and leave alone to burn if you do not imperative.
- Avoid inhalation of materials or combustion by-products.
- Do not access if the tank on fire.
- Use appropriate extinguishing measure suitable for surrounding fire.
- Keep containers cool with water spray.

### 6. ACCIDENTAL RELEASE MEASURES

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

- Ventilate closed spaces before entering.

- Do not touch spilled material. Stop leak if you can do it without risk.
- Handling the damaged containers or spilled material after wearing protective equipment.
- Avoid skin contact and inhalation.

#### **B. Environmental precautions**

- Prevent runoff and contact with waterways, drains or sewers.
- If large amounts have been spilled, inform the relevant authorities.

#### **C. Methods and materials for containment and cleaning up**

- Large spill : Stay upwind and keep out of low areas. Dike for later disposal.
- Notification to central government, local government. When emissions at least of the standard amount
- Dispose of waste in accordance with local regulation.
- Appropriate container for disposal of spilled material collected.

### **7. HANDLING AND STORAGE**

#### **A. Precautions for safe handling**

- Wash thoroughly after handling.
- Avoid direct physical contact.
- Since emptied containers retain product residue(vapor, liquid, solid) follow all MSDS and label warnings even after container is emptied.
- Comply with all applicable laws and regulations for handling

#### **B. Conditions for safe storage, including any incompatibilities**

- Save applicable laws and regulations.
- Do not apply any physical shock to container.
- Avoid direct sunlight.
- Keep in the original container.
- Please pay attention to incompatibilities materials and conditions to avoid.
- Do not eat, drink or smoke when using this product.

### **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **A. Exposure limits**

- **ACGIH TLV**
  - Not available
- **OSHA PEL**
  - Not available

#### **B. Engineering controls**

- A system of local and/or general exhaust is recommended to keep employee exposures above the Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. The use of local exhaust ventilation is recommended to control emissions near the source.

#### **C. Individual protection measures, such as personal protective equipment**

- **Respiratory protection**
  - Under conditions of frequent use or heavy exposure, Respiratory protection may be needed.
  - Respiratory protection is ranked in order from minimum to maximum.
  - Consider warning properties before use.
- **Eye protection**
  - Wear primary eye protection such as splash resistant safety goggles with a secondary protection face shield.
  - Provide an emergency eye wash station and quick drench shower in the immediate work area.
- **Hand protection**
  - Wear appropriate glove.
- **Skin protection**
  - Wear appropriate clothing.
- **Others**
  - Not available

**9. PHYSICAL AND CHEMICAL PROPERTIES**

A. Appearance	
- Appearance	Solid (Powder)
- Color	Yellow
B. Odor	Not available
C. Odor threshold	Not available
D. pH	6 ~8
E. Melting point/Freezing point	Not available
F. Initial Boiling Point/Boiling Ranges	320 °C
G. Flash point	500 °C
H. Evaporation rate	Not available
I. Flammability(solid, gas)	Not available
J. Upper/Lower Flammability or explosive limits	Not available
K. Vapour pressure	(4.62E-023mmHg 25°C)
L. Solubility	Insoluble
M. Vapour density	Not available
N. Specific gravity(Relative density)	1.4
O. Partition coefficient of n-octanol/water	> 6
P. Autoignition temperature	Not available
Q. Decomposition temperature	Not available
R. Viscosity	Not available
S. Molecular weight	685.59896

**10. STABILITY AND REACTIVITY****A. Chemical Stability**

- This material is stable under recommended storage and handling conditions.

**B. Possibility of hazardous reactions**

- Hazardous Polymerization will not occur.

**C. Conditions to avoid**

- Avoid contact with incompatible materials and condition.
- Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surfaces

**D. Incompatible materials**

- Not available

**E. Hazardous decomposition products**

- May emit flammable vapour if involved in fire.

**11. TOXICOLOGICAL INFORMATION****A. Information on the likely routes of exposure**

- (Respiratory tracts)
  - Not available
- (Oral)
  - Harmful if swallowed
- (Eye·Skin)
  - May cause an allergic skin reaction

**B. Delayed and immediate effects and also chronic effects from short and long term exposure**

- Acute toxicity
  - \* Oral
    - [Calcium carbonate] : LD50 = 6450 mg/kg Rat
  - \* Dermal

- Not available
- \* **Inhalation**
  - Not available
- **Skin corrosion/irritation**
  - [Calcium carbonate] : Moderate irritation of rabbit-Draize tes, visible irritation to humans
- **Serious eye damage/irritation**
  - [Calcium carbonate]: Extreme irritation of rabbit-Draize tes, mild irritation to humans
- **Respiratory sensitization**
  - [CI Pigment Yellow 13]: No data indicating respiratory hypersensitivity.
- **Skin sensitization**
  - [CI Pigment Yellow 13] : There is no data indicating skin sensitization. Guinea pig Buehler Test No skin sensitization reported.
- **Carcinogenicity**
  - \* **IARC**
    - Not available
  - \* **OSHA**
    - Not available
  - \* **ACGIH**
    - Not available
  - \* **NTP**
    - Not available
  - \* **EU CLP**
    - Not available
- **Germ cell mutagenicity**
  - [CI Pigment Yellow 13] : Negative in in vitro Salmonella typhimurium Ames test. Negative in E. coli Ames test. Negative in DNA damage test of rat hep
  - [Calcium carbonate]: In vitro Salmonella typhimurium Ames test, negative regardless of presence or absence of metabolic activation system
- **Reproductive toxicity**
  - Not available
- **STOT-single exposure**
  - Not available
- **STOT-repeated exposure**
  - Not available
- **Aspiration hazard**
  - Not available

## 12. ECOLOGICAL INFORMATION

### A. Ecotoxicity

- **Fish**
  - [Calcium carbonate] : LC50 > 56000 mg/ℓ 96 hr
- **Crustaceans**
  - Not available
- **Algae**
  - [Calcium carbonate] : EC50 = 22000 mg/ℓ 96 hr

### B. Persistence and degradability

- **Persistence**
  - [C.I. Pigment Yellow 13] : (log Kow = > 6)
- **Degradability**
  - Not available

### C. Bioaccumulative potential

- **Bioaccumulative potential**
  - [Calcium carbonate] : BCF = 3.162
- **Biodegradation**
  - Not available

### D. Mobility in soil

- Not available

**E. Other adverse effects**

- Not available

**13. DISPOSAL CONSIDERATIONS****A. Disposal methods**

- Since more than two kinds of designaed waste is mixed, it is difficult to treat seperatly, then can be reduction or stabilization by incineration or similar process.
- If water separation is possible, pre-process with Water separation process.
- Dispose by incineration.

**B. Special precautions for disposal**

- The user of this product must disposal by oneself or entrust to waste disposer or person who other's waste recycle and dispose, person who establish and operate waste disposal facilities.
- Dispose of waste in accordance with all applicable laws and regulations.

**14. TRANSPORT INFORMATION****A. UN Number**

- Sea transport (IMDG) : Not classified as a dangerous good under transport regulations
- Air transport (IATA) : Not classified as a dangerous good under transport regulations

**B. UN proper shipping name**

- Not applicable

**C. Transport hazard class(es)**

- Not applicable

**D. Packing group**

- Not applicable

**E. Environmental hazards**

- Not applicable

**F. Special precautions for user**

- None known

**15. REGULATORY INFORMATION****A. National and/or international regulatory information**

- POPs Management Law
  - Not applicable
- Information of EU Classification
  - \* Classification
    - Not applicable
  - \* Risk Phrases
    - Not applicable
  - \* Safety Phrase
    - Not applicable
- U.S. Federal regulations
  - \* OSHA PROCESS SAFETY (29CFR1910.119)
    - Not applicable
  - \* CERCLA Section 103 (40CFR302.4)
    - Not applicable
  - \* EPCRA Section 302 (40CFR355.30)
    - Not applicable
  - \* EPCRA Section 304 (40CFR355.40)
    - Not applicable

- \* **EPCRA Section 313 (40CFR372.65)**
  - Not applicable
- **Rotterdam Convention listed ingredients**
  - Not applicable
- **Stockholm Convention listed ingredients**
  - Not applicable
- **Montreal Protocol listed ingredients**
  - Not applicable

## 16. OTHER INFORMATION

### A. Reference

- The information contained herein is believed to be accurate. It is provided independently of any sale of the product for purpose of hazard communication. It is not intended to constitute performance information concerning the product. No express warranty, or implied warranty of merchantability or fitness for a particular purpose is made with respect to the product or the information contained herein.
- This Safety Data Sheet was compiled with data and information from the following sources: KOSHA, NITE, ESIS, NLM, SIDS, IPCS

### B. Issue date

- 2022-07-26

### C. Revision number and Last date revised

- Not applicable

### D. Other

- This SDS is prepared according to the Globally Harmonized System (GHS).