

## **SAFETY DATA SHEET**

---

### **1. IDENTIFICATION**

A. PRODUCT NAME

- PPG 365

B. Recommended Use and Restriction on Use

- General use : Not available  
 Restriction on Use : Not applicable

C. Information of Manufacturer

– Manufacturer

- Company name : Korea Kumho Petrochemical Co., Ltd.  
 Address : 260-257, Cheoyong-ro, Nam-Gu, Ulsan, 44785, Korea  
 Dept. : Quality Assurance Team  
 Person in charge :  
 Telephone number : +82-52-279-8852  
 Fax number : +82-52-279-8840  
 Emergency :

– Supplier / distributor

- Company name :  
 Address :  
 Dept. :  
 Person in charge :  
 Telephone number :  
 Fax number :  
 Emergency :

### **2. HAZARD IDENTIFICATION**

A. GHS Classification : Not applicable

B. GHS label elements

- Hazard symbols : Not applicable  
 Signal word : Not applicable  
 Hazard statement : Not applicable

## **SAFETY DATA SHEET**

○ Precautionary statements : Not applicable

C. Other hazards which do not result in classification :

– NFPA rating: (0~4 steps) : Health=0, Flammability=0, Reactivity=0

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No./ECL No./EINECS No.	Contents(%)
Polypropylene Triol	25791-96-2/KE-29338	99.9
Additives	Proprietary	0.1

※ Reference No. : ECL(Registration number of Korean Existing Chemical List)  
EINECS(Registration number of Europe Existing Chemical List)

### **4. FIRST-AID MEASURES**

A. Eye Contact :

- Immediately flush eyes with plenty of water at least 15minutes.
- If irritation persists, get a doctor's examination.

B. Skin Contact :

- Wash the contaminated skin area with running water.
- If irritation persists, get a doctor's attention.

C. Inhalation :

- Remove victim to fresh air immediately.
- Take Artificial respiration if not breathing.
- Use respirator when breathing is difficult.
- Get medical attention.

D. Ingestion :

- Do not induce vomiting.
- Do not feed anything if that is not conscious.
- Give 2~4 cups water or milk if conscious.
- Get medical attention.

E. Delay and immediate effects and also chronic effects from short and long term

## **SAFETY DATA SHEET**

exposure : Not available

F. Notice to Physician :

- Treatment may vary with condition of victim and specifics of incident.

### **5. FIRE FIGHTING MEASURE**

A. Suitable (Unsuitable) extinguishing media :

- Extinguishing media : Carbon Dioxide, dry chemical, foam.
- Unsuitable Extinguishing media : Do not use direct water.
- Large fire : Alcohol-resistant foam.

B. Specific hazards arising from the chemical

- Combustion : Carbon dioxide, carbon monoxide
- Levels of fire hazard :
  - There is potential for caused by the fire that irritating or toxic gases.
  - Vapors are heavier than air.
  - Containers may rupture or explode if exposed.

C. Fire fighting procedures and equipments :

- Wear appropriate personal protective equipment(see section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION).
- Use water spray to keep fire-exposed containers cool.
- Move container from fire area if it can be done without risk.
- Suppression using water can be spread fire.
- Avoid inhalation of substance itself or combustion.
- Stay upwind and keep out of low areas.

### **6. ACCIDENTAL RELEASE MEASURES**

A. Personal Precautions, Protective Equipment and Emergency procedures :

- Perform in accordance with 「 See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION」 . Put on appropriate personal protective equipment.
- Avoid contact with eyes and skin.
- Avoid inhalation of substance itself or combustion.

## **SAFETY DATA SHEET**

---

- Evacuation against the wind.
- Avoid contact with heat, sparks, flame or other ignition sources.

### B. Environmental Precautions

- Avoid dispersal of spilt material and runoff and contact with waterways, drains and sewers. If large spills, advise emergency services.

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

- For small spills.
  - Remove all sources of ignition.
  - Absorb for use sand or other non-combustible material.
  - Ventilate leak areas and clearing leak area.
- For large spills.
  - Remove all sources of ignition.
  - Dike to prevent flowing into the nearby river and reservoir.
  - Avoid entering to sewers or water system.
  - Absorb for use sand or other non-combustible material.
  - Appropriate container for disposal of spilled material collected.

## **7. HANDLING AND STORAGE**

### A. Handling :

- Perform in accordance with 「 See section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION」 . Put on appropriate personal protective equipment.
- Handle in a well-ventilated place.
- Avoid contact with heat, sparks, flame or other ignition sources.
- Remove all sources of ignition.
- Wash thoroughly after handling.

### B. Storage Precautionary Statements :

- Do not store where the moisture.
- Store in a cool, dry, location and avoid heat.

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

## **SAFETY DATA SHEET**

### A. Exposure limit

- Exposure limit under ISHL : Not applicable
- ACGIH : Not applicable
- Biological exposure limits : Not applicable

### 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. Personal Protective Equipment :

- Respiratory Protection : Use the respirator be given official approval by Korea Occupational Safety & Health Agency. 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.
  - ※ When take shelter
    - Any chemical cartridge respirator with organic vapour cartridge(s).
    - Any chemical cartridge respirator with a full facepiece and organic vapour cartridge(s).
    - Any air-purifying respirator with a full facepiece and an organic vapour canister.
  - ※ For Unknown Concentration or Immediately Dangerous to Life or Health
    - Self-contained breathing apparatus (pressure-demand or other positive-pressure mode in combination), supplied-air respirator with full facepiece.
- Eye Protection : Wear primary eye protection such as splash resistant safety goggles with a secondary protection faceshield. Provide an emergency eye wash station and quick drench shower in the immediate work area.
- Hand Protection : Wear chemical resistant protected gloves if there is hazard potential for direct skin contact. Wear heat resistant protected gloves to withstand the temperature of molten product.

## **SAFETY DATA SHEET**

- Body Protection : Wear chemical resistant protected clothing if there is hazard potential for direct contact.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

- A. Appearance : liquid
- B. Odor : Mild odor
- C. Odor threshold : Not available
- D. pH : Not applicable
- E. Melting point/Freezing point : Not available
- F. Initial Boiling Point/Boiling Ranges : Not available
- G. Flash point : > 230°C ( Cleveland Open Cup )
- H. Evapourating Rate : Not available
- I. Flammability(solid, gas) : Not available
- J. Upper/Lower Flammability or explosive limits : Not available
- K. Vapour pressure : > 1.0
- L. Solubility : Insoluble
- M. Vapour density(Air=1) : Not applicable
- N. Relative density : 1.05
- O. Partition coefficient of n-octanol/water : Not available
- P. Autoignition Temperature : Not available
- Q. Decomposition Temperature : Not applicable
- R. Viscosity : 280~340 cps at 25°C
- S. Molecular weight : Not available

### **10. STABILITY AND REACTIVITY**

- A. Stability
  - This material is stable under recommended storage and handling conditions
- B. Possibility of Hazardous Reaction
  - Will not occur.
- C. Conditions to Avoid
  - High temperature.

## **SAFETY DATA SHEET**

---

D. Materials to Avoid

- Strong acids, strong oxidizing agents, alkali or alkaline substances (copper, zinc or brass)

E. Hazardous Decomposition Products

- Carbon monoxide, carbon dioxide

### **11. TOXOCOLOGICAL INFORMATION**

A. Information on the likely routes of exposure

- (Respiratory tracts) : Not applicable
- (Oral) : Not applicable
- (Eye · Skin) : Not applicable

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

- Acute toxicity : Not available
- Skin corrosion/irritation : Not available
- Serious eye damage/irritation : Not available
- Respiratory sensitization : Not available
- Skin sensitization : Not available
- Carcinogenicity : Not available
- Germ cell mutagenicity : Not available
- Reproductive toxicity : Not available
- Specific target organ toxicity(single exposure) : Not available
- Specific target organ toxicity(repeated exposure) : Not available
- Aspiration hazard : Not available
- Chronic effect : Not available

C. Calculation the classification of the mixture(acute toxicity estimate calculation etc.) : Not applicable

### **12. ECOLOGICAL INFORMATION**

## **SAFETY DATA SHEET**

---

- A. Ecotoxicity : Not available
- B. Persistence and degradability : Not available
- C. Bioaccumulative potential : Not available
- D. Mobility in soil : Not available
- E. Other adverse effects : Not available

### **13. DISPOSAL CONSIDERATION**

#### A. Disposal methods

- The user of this product must properly characterize the waste/container generated from the use of this product in accordance with all applicable federal, state and/or local laws and regulations in order to determine the proper disposal of the waste in accordance with all applicable federal, state and/or local laws and regulations.

#### 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 local regulation.

### **14. TRANSPORT INFORMATION**

- A. UN number : Not regulated for transport of dangerous goods
- B. Proper shipping name : Not applicable
- C. Hazard class : Not applicable
- D. Packing group : Not applicable
- E. Marine pollutant : Not applicable



## **SAFETY DATA SHEET**

F. Special precautions for user related to transport or transportation measures :

- 1) EmS FIRE SCHEDULE : Not applicable
- 2) EmS SPILLAGE SCHEDULE : Not applicable

G. IATA Transport : Not Classified as dangerous for IATA Transport

### **15. REGULATORY INFORMATION**

A. Korea Industry Safety and Health Law (ISHL) :

- This product is subject to the chemical for classification and labeling under ISHL Article 41.

B. The Toxic Chemical Control Act in Korea(TCCA)

- This product is not classified as Toxic chemical and Observational chemical under TCCA Article 2.3. and 2.4.
- Toxic Release Inventory(TRI) Chemicals : Not regulated

C. Dangerous goods Safety Management Law in Korea :

- Dangerous goods – Class 4 flammable liquid, Petroleum Class 4  
(Storage volume limit: 6000 L)

D. US regulations

- OSHA regulation (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

E. Other local or international regulation

- POPs Management Law : Not applicable
- Rotterdam Convention on Harmful Chemicals & Pesticides : Not applicable
- Stockholm Convention on Persistent Organic Pollutants : Not applicable
- Montreal Protocol on Substances That Deplete the Ozone Layer  
: Not applicable
- Information of EU Classification : Not classified

## 16. OTHER INFORMATION

### A. Reference

- This MSDS is prepared in accordance with ISHL Article 41 and MOL Notification No. 09-68 in Korea and consider the internal regulations by Korea Kumho Petrochemical Co., Ltd.

B. Issue date : 2010. 03. 10

C. Revision number and Last revised : 6<sup>th</sup>. 2018. 07. 19

D. Other information : Not available