
5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : The Products is no flammable.

Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products.

Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Wipe off by dry cloth and wash with water.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.

: Recap after use.

: Don't shake.

: Keep out of the reach of children.

: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.

: Do not leave the products in high temperature space.

: Recommended temperature: 0-30 C.

Incompatible products : (Information of components.)

oxidizing materials, bases, acids, reducing agents, metals

Ethylene glycol

oxidizing materials

Coloring agent

oxidizing materials, reducing agents

Resin

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	5mg/m ³ (Respirable fraction), 15mg/m ³ (Total dust) [Nuisance Dust]	Coloring agent
ACGIH	100mg/m ³ ceiling (particulate)(aerosol) 10mg/m ³ (Nuisance particulate) 15mg/m ³ (Total dust)	Ethylene glycol Coloring agent Additive
EC	52mg/m ³ (20ppm) TWA, 104mg/m ³ (40ppm) STEL(skin)	Ethylene glycol

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form : Low viscous liquid.
 Colour : Blue.
 Odour : None odour.
 pH : about 7.5
 Boiling point : Not available. [Water/ 100 C]
 Melting point : <-10 C
 Flash point : Not applicable. [Ethylene glycol/ 111 C(CC)]
 Autoignition temperature : Not applicable. [Ethylene glycol/ 398 C]
 Explosion limits : Not applicable.
 [Lower flammable limit / 3.2% , Upper flammable limit / 15.3% <Ethylene glycol>]
 Density : about 1.1 / 25 C
 Vapour density (air=1) : Not available. [Ethylene glycol/ 2.1]
 Solubility in water : Soluble.
 Evaporation rate : Not available.
 Volatile : 83-86%

10. STABILITY AND REACTIVITY

Stability : Stability.

Hazardous reactions : Will not occur.

Conditions to avoid : Avoid heat, flames, sparks and other sources of ignition.
 Avoid contact with incompatible materials.

Materials to avoid : (Information of components.)

oxidizing materials, bases, acids, reducing agents, metals	Ethylene glycol
oxidizing materials	Coloring agent
oxidizing materials, reducing agents	Resin

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen.	Coloring agent / Resin
miscellaneous decomposition products.	Additive

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	1650mg/kg-Cat, 4700mg/kg-Rat >=5000mg/kg-Rat 1040mg/kg-Rabbit, >40000mg/kg-Mouse	Ethylene glycol Coloring agent Resin
Inhalation LC50	Not available.	
Skin LD50	9530uL/kg-Rabbit	Ethylene glycol

Local effects Irritant:inhalation, skin, eye Ethylene glycol

Chronic toxicity and long term toxicity

The substance may have effects on the central nervous system, resulting in abnormal eye movements (nystagmus). Ethylene glycol

Signs and Symptos of overexposure and aggravated by exposure

Inhalation	irritation,cough irritation irritation,pneumonitis	Ethylene glycol Coloring agent / Additive Resin
Skin contact	irritation,dry irritation,sensitization irritation	Ethylene glycol Resin Additive
Eye contact	irritation,redness irritation	Ethylene glycol Coloring agent / Resin / Additive
Ingestion	nausea,vomiting gastric disturbances diarrhea,pneumonitis	Ethylene glycol Coloring agent Resin

Specific effects IARC Group 3 Resin

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Ethylene glycol

EU labeling

25%≤Xn;R22 : Ethylene glycol

R22 : Harmful if swallowed.

CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : Ethylene glycol

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products
at the data : (September 30, 2011). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken,
when a product is used for other utilization than these which it is intended.