

# Material Safety Data Sheet

---

## 1. PRODUCT AND COMPANY IDENTIFICATION

---

**Product name** : BUG  
**Manufacturer** : STEK. CO., LTD  
**Tel** : 82-02 -6235-7835

---

## 2. HAZARDS IDENTIFICATION

---

**Globally Harmonized System of Classification and Label ling of Chemicals (GHS)**

**Skin corrosion/irritation** : 2

**Severe eye damage/eye irritation** : 2

**Label elements including precautionary statements**

**Symbol** :



**Signal word** : Warning

**Hazard statements :**

- H315 : Causes skin irritation.
- H319 : Causes severe eye irritation.
- H335 : May cause respiratory irritation.

**Precautionary statements :**

**Prevention**

- P201 : Instruction book issued to secure.
- P202 : All safety precautions have been read and understand before you use
- P210 : Keep away from heat/sparks/open flames/hot surfaces. – No smoking
- P233 : Keep container tightly closed.
- P240 : Ground/bond container and receiving equipment.
- P241 : Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 : Use only non-sparking tools.
- P243 : Take precautionary measures against static discharge.
- P260 : (Dust, gas, mist, steam, spray) do not inhale

- P264 : Wash your hand thoroughly after handling.
- P270 : When using this product, Don't eat , drink or smoke
- P280 : Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

- P301+P310 : IF SWALLOWED : Immediately call a POISON CENTER or doctor/physician.
- P302+P352 : IF ON SKIN : Wash with plenty of soap and water.
- P303+P361+353 : IF ON SKIN(or hair):Remove/Take off immediately all contaminated clothing  
Rinse skin with water/shower.
- P331 : Do not induce vomiting
- P332+P313 : If skin irritation occurs : Get medical advice /attention.
- P362 : Take off contaminated clothing and wash before reuse.
- P370+P378 : In case of fire : Use Dry Chemicals,Co2,for extinction.

**Storage**

- P403+P235 : Store in a well-ventilated place. Keep cool.
- P405 : Store locked up.

**Disposal**

- P501 : Dispose of contents/container to(in accordance with local/regional/national/international Regulation).

---

**3. COMPOSITION ON INGREDIENTS**

---

<u>INDREDIENT</u>	<u>C.A.S. No.</u>	<u>%by Wt</u>
WATER	7732-18-5	80-90%
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	1<5%
DIPHOSPHORIC ACID, TETRASODIUM	13472-36-1	1%
Trade secret		1<5%
Trade secret		1%
Melon Perfume		1%

---

## 4. FIRST AID MEASURES

---

### FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact :** Flush eyes with large amount of water. If signs/symptoms persist, get medical attention.

**Skin Contact :** Wash affected area with soap and water. If signs/symptoms develop, get medical attention

**Inhalation :** Remove person to fresh air. Get immediate medical attention.

**If Swallowed:** Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention

---

## 5. FIRE FIGHTING MEASURES

---

### Suitable extinguishing media :

**SMALL FIRE :** Use dry chemicals,CO<sub>2</sub>,water spray or alcohol-resistant foam.

**LARGE FIRE :** Use water spray, water fog or alcohol-resistant foam

### Specific hazards arising from the chemical :

Thermal decomposition may produce carbon monoxide and other toxic vapors.

### Special protective equipment and precautions for firefighters :

Wear an approved positive pressure self-contained breathing apparatus and firefighter turnout gear.

Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source,

Vapors can burn in open or explode if confined. Vapors may be heavier than air, May travel long

Distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be

Combustible at temperatures below flash point. Fight fire from a safe distance/protected location.

Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of

Burns/injuries. Use water sprat/fog for cooling. Avoid frothing/steam explosion. Burning liquid may

floatwater. Although water soluble, may not be practical to extinguish fire by water dilution,.Notify

Authorities immediately if liquid enters sewer/public waters.

---

## 6. ACCIDENTAL RELEASE MEASURES

---

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.

---

## **7. HANDLING AND STORAGE**

---

### **HANDLING**

Avoid breathing gas. Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Do not enter confined spaces unless adequately ventilated.

### **STORAGE**

Do not apply direct flame to cylinder. Do not store cylinder in direct sun or expose it to heat above 120F. Do not drop or refill this cylinder. Keep away from heat. Sparks and flames.

---

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

---

### **ENGINEERING CONTROLS**

After Using, use with appropriate local exhaust ventilation.

### **PERSONAL PROTECTIVE EQUIPMENT(PPE)**

#### **Eye/Face Protection**

Avoid eye contact with vapors, mist, or spray

The following eye protections are recommended : Safety Glasses with side shields

#### **Skin Protection**

Avoid skin contact.

#### **Respiratory Protection**

Avoiding breathing gas..

#### **Prevention of Swallowing**

Do not eat, drink or smoke when using this product.

---

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

---

**Odor, Color, Grade :** Little odor, Colorless, Liquid

**General Physical Form :** Liquid

**Auto ignition temperature :** Not applicable

**Flash Point :**  $\geq 95^{\circ}\text{C}$

**Flammable Limit – LEL :** Not applicable

**Flammable Limit – UEL :** Not applicable

**Vapor Pressure :** Not applicable

**Viscosity :** Not applicable

**Specific Gravity :** 0.9-1.0 Water=1

**pH :** 12.0-13.0 ph

**Melting Point :** 0°C

**Solubility in Water :** Soluble

---

## 10. STABILITY AND REACTIVITY

---

**Stability :** Stable by Heat

**Hazardous Polymerization :** will not occur

**Hazardous decomposition or by-products :** Thermal decomposition products include hydrogen fluoride, hydrogen chloride, carbon monoxide, carbon dioxide and chloride.

---

## 11. TOXICOLOGICAL INFORMATION

---

### **Information on the likely routes of exposures.**

**Inhalation exposure:**

Irritation, headache, sleepiness, dizziness, orientation loss.

**Ingestion exposure:**

Irritation, vomiting, headache, dizziness, orientation loss, pulmonary congestion.

**Skin exposure:**

May cause slight skin irritation. The liquid defats the skin.

**Eye exposure:**

May cause slight eye irritation.

### **Delayed and immediate effects and also chronic effects from short and long term exposure:**

**Acute toxicity:**

Oral-LD50(rat)>5000mg/kg

Skin-LD50(rabbit):>2000mg/kg

**Inhalation:** no data available

**Skin corrosion/irritation:** May cause slight skin irritation.

**serious eye damage/irritation:** May cause slight eye irritation.

**Respiratory sensitization:** Not expected to be a sensitizer.

**Skin sensitization:** Not expected to be a sensitizer.

**Carcinogenicity:** No Data Available.

**Reproductive toxicity:** No data available

**Specific target organ systemic toxicity-single exposure:** It may effect on the central nerves.

High levels of steam inhalation may produce unconsciousness.

**Specific target organ systemic toxicity-repeated exposure:** No Data Available

**Aspiration hazardz:**

Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

**Numerical measures of toxicity(Such as acute toxicity estimate):** No Data Available

---

## 12. ECOLOGICAL INFORMATION

---

**Ecotoxicological Information :** Not determined.

**Chemical fate Information :** Not determined..

---

## 13. DISPOSAL CONSIDERATIONS

---

Waste Disposal Method : Incinerate in an industrial or commercial facility in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

---

## 14. TRANSPORT INFORMATION

---

Not classified as dangerous in the meaning of transport regulations.

Not classified as supporting combustion according to the transport regulations.

**Matters needing attention for transportation**

Confirm that there is no breakage, corrosion, or leakage from the container before shipping. Be sure to prevent damage to cargo by loading so as to avoid falling, dropping, or collapse. Ship in appropriate containers with denotation of the content in accordance with the relevant statutes and rules

---

## 15. REGULATORY INFORMATION

---

No data available

---

## 16. OTHER INFORMATION

a. Reference

HSDB,ChemIDplus,ECHA

HSDB,ECHA,NITE

ECHA,ACGIH, PATTY, CaPSAR, ATSDR, IARC,NITE,QSAR

ICSC, IUCLID, ECHA Registered substances, ECOTOX, SIDS,ECHA, ECHA,HSDB, IPCS,ICSC

ECHA, HSDB,ChemIDPLUS, ECHA, toxnet, EPISUITE, The Chemical Database, The Department of Chemistry at the University of Akron(<http://ull.chemistry.uakron.edu/erd>)

International Uniform Chemical Information Database(IUCLID)(<http://ecb.jrc.it/esis>)

National Institute of Technology and

Evaluation(NITE)([http://www.safe.nite.go.jp/ghs/h18\\_bunrui.html](http://www.safe.nite.go.jp/ghs/h18_bunrui.html))

National Institute of Technology and

Evaluation(NITE)([http://www.safe.nite.go.jp/ghs/h18\\_bunrui.html](http://www.safe.nite.go.jp/ghs/h18_bunrui.html))

National Library of Medicine(NLM)(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)  
The ECOTOXicology database (ECOTOX)([http://cfpub.epa.gov/ECOTOX/quick\\_query.htm](http://cfpub.epa.gov/ECOTOX/quick_query.htm))  
Hazardous Substances Data Bank(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>)  
National Library of Medicine(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CHEM>)  
Registry of Toxic Effects of Chemical Substances  
Chemical Carcinogenesis Research Information System(<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?CCRIS>), The ECOTOXicology  
database([http://cfpub.epa.gov/ECOTOX/quick\\_query.htm](http://cfpub.epa.gov/ECOTOX/quick_query.htm))

b. MSDS created  
Revised

2020.08.04