Safety Data Sheet

1. Product and company identification
   
   **Product name**: XA-1
   
   **Name of manufacturer**: KANTO CHEMICAL CO., INC.
   
   **Address**: 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
   
   **Name of section**: Electronic materials division technical department
   
   **Telephone number**: +81-3-6214-1080
   
   **Facsimile number**: +81-3-3241-1043
   
   **Mail address**: el-info@gms.kanto.co.jp
   
   **SDS No.**: GE00577

2. Summary of danger and Hazard

   **GHS classification**
   
   **Physical and chemical hazard**
   
   Flammable liquids : Out of category
   
   Pyrophoric liquids : Out of category
   
   Self-heating substances and mixtures : Out of category
   
   Substances and mixtures which, in contact with water, emit flammable gases : Out of category
   
   Oxidizing liquids : Out of category

3. Composition/Information on ingredients

   **Substance/Mixture**: Mixture
   
   **Ingredients and composition**
   
   : Compound A max. 20%
   
   : Compound B max. 10%
   
   : Compound C max. 5%
   
   : Compound D max. 1%
   
   : Compound E max. 1%
   
   : Compound F max. 1%
   
   : Water min. 62%
   
   **Chemical formula**
   
   : Compound A nondisclosure
   
   : Compound B nondisclosure
   
   : Compound C nondisclosure
   
   : Compound D nondisclosure
   
   : Compound E nondisclosure
   
   : Compound F nondisclosure
   
   : Water H2O
   
   **CAS No.**
   
   : Compound A nondisclosure
   
   : Compound B nondisclosure
4. First aid measures

Inhalation: Remove the victim to fresh air, and make him blow his nose and gargle. If necessary, get medical treatment.

Skin contact: Wash the affected areas under running water.

Eye contact: Wash the affected areas under running water for at least 15 minutes. Get medical treatment.

Ingestion: Rinse mouth with water. Give the victim one or two glasses of water or milk, do not induce vomiting. Get medical treatment as soon as possible.

Protection for first aid person:
Savers wear proper protective equipment like rubber gloves, goggles.

5. Fire fighting measures

Extinguishing media: This product is noncombustible.

Prohibited extinguishing media: None

Particular fire fighting: Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Protection for firefighters:
Firefighters should wear protective equipment.

6. Accidental release measures

Cautions for personnel: Wear proper equipment and avoid contact with skin and inhalation of vapor. Keep personnel removed from and upwind of fire. Keep away personnel except for authorized ones from spillage area by stretching ropes.

Cautions for environment: Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.

Removal measure: Absorb spill with inert material (e.g., diatomaceous earth, sand) and place in a tightly closed container. Flush residual area with copious amounts of water.

7. Cautions of handling and storage

Handling:
Engineering measures: Wear proper protective equipment not to contact with skin or inhale the vapor.

Cautions for safety handling:
Handle the chemical not to generate aerosol, vapor.

Storage:
Adequate storage condition:
Replace N2 gas, store in a dark, cool place and tightly closed.

Safety adequate container materials:
Glass, polyethylene, polypropylene

8. Exposure control/Personal protection

Engineering measures:
Use only with adequate ventilation and in closed systems.

Control parameters:
ACGIH(2009)
- Compound A: Not established
- Compound B: Not established
- Compound C: Not established
- Compound D: Not established
- Compound E: 4ppm (TLV-STEL)
- Compound E: 2ppm (TLV-TWA)
- Compound F: 0.01mg/m3 (TLV-TWA)

Protective equipment:
Respiration protective equipment:
- Dust mask

Hands protective equipment:
- Impervious protective gloves

Eyes protective equipment:
- Safety goggles

Skin and body protective equipment:
- Protective clothing, protective boots

9. Physical and chemical properties

Appearance: Liquid
Color: Colorless
Odor: Slight characteristic odor
pH: 7.2
Boiling point: Not available
Melting point: Not available
Flash point: Noncombustible
Auto-ignition point: Not available

Explosion characteristics:
Explosion limit: Not available

Solubility:
Solubility in solvents: Water: Freely soluble

10. Stability and reactivity
Stability: Stable under normal usage.
Reactivity: May react with oxidizing substances.
Incompatible conditions: Light, heat
Incompatible materials: Oxidizing substances
Hazardous decomposition products: Carbon monoxide, nitrogen oxides, sulfur oxides

11. Toxicological information
   Acute toxicity:
   - Oral: Not possible to classify because of insufficient data.
   - Dermal: Not possible to classify because of insufficient data.
   - Inhalation (vapor): Not possible to classify because of insufficient data.
   - Inhalation (dust, mist): Not possible to classify because of insufficient data.

   Skin corrosiveness: Not possible to classify because of insufficient data.

   Irritation to skin, eyes: Not possible to classify because of insufficient data.

   Respiratory sensitization or Skin sensitization:
   - Respiratory sensitization: Not possible to classify because of insufficient data.
   - Skin sensitization: Not possible to classify because of insufficient data.

   Mutagenicity: Not possible to classify because of insufficient data.

   Carcinogenic effects: Not possible to classify because of insufficient data.

   Effects on the reproductive system:
   - Not possible to classify because of insufficient data.

   Specific target organ systemic toxicity single exposure:
   - Not possible to classify because of insufficient data.

   Specific target organ systemic toxicity repeated exposure:
   - Not possible to classify because of insufficient data.

   Aspiration hazard: Not possible to classify because of insufficient data.

12. Ecological information
   Ecotoxicity:
   - Fish toxicity:
     - Acute aquatic toxicity: Not possible to classify because of insufficient data.
     - Chronic aquatic toxicity: Not possible to classify because of insufficient data.

   Rediualbility and degradability:
   - Not available

   Ecorediualbility:
   - Not available

13. Disposal consideration
   Residual disposal: Dissolve in a water and dispose of in accordance with applicable laws and local regulations.

   Containers: In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

Kanto Chemical Co., Inc.
15. Regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

References

Handbook of dangerous and hazardous chemicals, Japan Industrial Safety & Health Association (2000-2001)


Handbook of Dangerous Substances Springer-Verlag Tokyo (1991)


Handbook of Poisonous and Deleterious substances, revised and enlarged edition, Yakumu Kohosa (2000)

The information contained herein is based on several references and the present state of our knowledge. However, the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250-2010.