



Expect Service

Radiation Products Design Inc

MATERIAL SAFETY DATA SHEET

RPD INFORMATION

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RAW MATERIAL INFORMATION

LEADED ACRYLIC

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Kyowaglas-XA
General Use : X-ray shielding
MSDS Number : XA199804E
Supplier
Name : Kuraray Co., Ltd.
Section : Methacrylate Company Quality Control Dept.
Address : 1-1-3, Otemachi, Chiyoda-ku, Tokyo, 103-8115, JAPAN
Telephone number : +81-3-6701-1516
Fax number : +81-3-6701-1577

2. COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Preparation : Substance
Chemical name or generic name : Transparent Lead-Acrylic sheet
Ingredients contributing to the hazard
: Kyowaglas-XA contains lead. Improper disposal may cause harm to environment.

3. HAZARDS IDENTIFICATION

Most important hazard
Environmental effect : If dumped on the ground, lead contained in this product may pollute soil.
Specific hazards : No data

4. FIRST-AID MEASURES

Information
Inhalation (dust in cutting or polishing)
: Remove the victim from the contamination immediately to fresh air and get a medical treatment.
Skin contact (dust in cutting or polishing)
: Wash affected area with lots of water and soap and get a medical treatment if necessary.
Eye contact (dust in cutting or polishing)
: Gently rinse the affected eyes with clean water for at least 15 minutes. Arrange for

transport to the nearest medical facility for examination and treatment by a physician as soon as possible.

Ingestion (dust in cutting and polishing)

: Rinse mouth with water. Try to get the victim to vomit by having the victim touch the back of their throat with finger and get a medical treatment as soon as possible.

Notes to physician

: Treat symptomatically.

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

5. FIRE-FIGHTING MEASURES

Extinguish media

: In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.

Blockade air with foam if fire is large.

Specific methods

: Keep personnel removed from and upwind of fire.

Take a proper measure not to leak environmental pollutant from water and ash after fire is extinguished.

Protections of firefighters

: Firefighters should wear proper protective equipment.(goggle, gloves, mask, etc)

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

: Do not inhale dust.

Environmental precautions

: Sweep and pick up dust and trash.

Methods for cleaning up

Recovery

: Sweep up, place in a bag and hold for waste disposal.

7. HANDLING AND STORAGE

Handling

Technical measures

: Keep away from fire.

Safe handling advice

: Use gloves not to cut your self at the edge or broken piece.

Storage

Technical measures

Storage conditions

: Avoid direct sunlight, high temperature and humidity.

Store in a cool, dry and well-ventilated room.

Incompatible products

: Not applicable

Packaging materials

: Polyethylene sheet and absorbent are recommended to avoid moisture absorption.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : Use dust-proof mask in machining.

Hand protection : Wear safety gloves .

Eye protection : Wear chemical goggles and face shield.

Skin and body protection : To prevent any contact, wear impervious clothing such as gloves, apron, boots and overall.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

Form : Solid

Colour : Transparent

Odour : None

Decomposition temperature : This product starts to turn soft around 80~90 degrees.

Flashpoint : No data

Explosion properties : Not applicable

Density : Approx. 1.6 g/cm³

Solubility

water solubility : Not soluble

fat solubility : Slightly soluble (by alcohol, ketone, etc)

Flammability(solid) : Almost as soluble as acrylic sheet

Relative density : Approx. 1.6

10. STABILITY AND REACTIVITY

Stability

: This product is considered a stable material under normal and anticipated storage

and handling conditions.
Possible hazardous reactions : None
Hazardous decomposition products : Lead

11. TOXICOLOGICAL INFORMATION

Acute toxicity	} : No data about Kyowaglas-XA. However, as this product contains lead, this is considered to have the same toxicological properties as lead.
Local effects	
Sensitization	
Chronic toxicity	
Long term toxicity	
Specific effect	

12. ECOLOGICAL INFORMATION

Mobility : Lead contained in Kyowaglas-XA may be distributed to and pollute environmental compartment.

13. DISPOSAL CONSIDERATIONS

Waste from residues
: As Kyowaglas-XA contains lead, improper disposal of the product may cause harm to environment. Please be sure to follow the laws, regulations, guidelines and standards of state and local authorities in disposing of Kyowaglas-XA. Also, please provide all end-users with the above-mentioned information.

14. TRANSPORT INFORMATION

The UN classification number : Not applicable
Specific precautionary transport measures and conditions
: Stabilize load in lading to avoid collapse .
Follow all regulations in your country.

15. REGULATORY INFORMATION

Regulations
: Ensure this material is in compliance with federal requirements and conformity to local regulations.

16. OTHER INFORMATION

: To the best of our knowledge, the information contained here in is accurate. However,

neither Kuraray Co.,Ltd. nor any subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used in caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.