

MATERIAL SAFETY DATA SHEET

1. Manufacturer Information:

Product name : Rewritable film (KUDOS-04)
(K0425-11A-1-5)
Company : Mitsubishi Plastics, Inc.
Address : Mitsubishi Jushi Bldg., 1-2-2 Nihonbashihongokucho,
Chuo-ku, Tokyo 103-0021, Japan
Department in charge : Electronics & High Performance Materials Dep.
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Recommended and restriction in use: Rewritable film

Serial No. 745-002

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2. Summary of hazardous and toxicity

Name of classification: Not applicable

Physical and chemical hazards: None Risk of explosion by fire or other sources of ignition.

Adverse human health hazards: None

Environmental effects: Form hydrogen chloride upon combustion.

3. Composition and ingredient

Single or mixture : Mixture
Chemical name : Polyethylene tere-phthalate and others
Official gazette serial No. (Chemical Substance Review Law)
: Polyethylene tere-phthalate (7-1022)

Ingredient & content:

Ingredient:	Content	CAS No.
Polyethylene tere-phthalate	56%,	25038-59-9
Vinyl chloride Vinyl acetate copolymer	19%	
Low molecular weight oil and fats	4%	
Aluminum, etc	1%	

Chemical formula : Polyethylene tere-phthalate
 $\text{HO}(\text{COC}_6\text{H}_4\text{COOCH}_2\text{CH}_2\text{O})_n\text{H}$

4. First aid measures:

Eye contact	: Immediately wash with plenty of fresh water. If necessary, ask for medical help.
Skin contact	: Not applicable
Ingestion	: Not applicable
Inhalation of burning gas	: Not applicable

5. Fire fighting

Extinguishing method	: Use plenty of water
Extinguishing media	: Water, carbon dioxide, chemical powder.
Other	: Toxic gases (acetaldehyde, carbon dioxide, chlorine) will be formed upon combustion. Avoid breathe gas, and wear self-contained breathing apparatus.

6. Accidental release measures

Precaution to human being	: As this is a solid matter having certain shape, not applicable.
Precaution to environment	: Prevent the overflow product (such as cut dust) into river or outdoor causing adverse effect on the environment.

7. Caution upon handling and storage

Handling	: During winding and unwinding of rolled film, static electricity may be generated. For protection of body, provide static electricity eliminator in the work area as needed.
Storage	: Avoiding hot and humid, direct sunshine, flame and heat sources, store in a well-ventilated indoor location.

8. Exposure protection measures

Concentration limit (Ministry of Labor standard)	: Not specified.
Allowable concentration	: Not specified.
Facilities measures	: Not required
Protection	: Protective goggles, Protective gloves

9. Physical & Chemical properties:

Appearance	: Film (spattering of aluminum)
Boiling point	: None
Vapor pressure	: None
Volatility	: None
Melting point	: Polyethylene tere-phthalate 253~265°C
Density (bulk density)	: 1.4 (at 23°C)

Solubility (in water) : Not soluble

10. Hazards identification (Stability & Reactivity)

Flash point : None
Ignition temperature : Polyethylene tere-phthalate 508°C
Explosion limit :: None
Flammability : May cause combustion by igniters
Oxidizability : None
Self-reactivity, explosion limit : None
Stability/reactivity : Stable at normal handling
Dust explosion : Static electricity may ignite fire. Provide static electricity eliminator in the work area as needed.

11. Toxicological information

Skin irritant properties : No knowledge
Corrosive properties (skin and eyes) : No knowledge
Allergenic and sensitizing effects : No knowledge
Acute toxicity : No knowledge
Sub-chronic toxicity : No knowledge
Chronic toxicity : No knowledge
Carcinogenic effects : No knowledge
Mutagenic effects : No knowledge
Effects on the reproductive system : No knowledge
Teratogenic effects : No knowledge

12. Ecological information

Biodegradability : Not degraded in nature conditions.. May form hydrochloric acid and acetic acid upon heating..
Bioaccumulation : None
Fish toxicity : None
Other information on eco-toxicity : None

13. Caution upon disposal

Dispose of in conformity with “Law regarding the disposal and cleaning of waste material”

14. Caution upon transportation

Care should be taken to prevent the packing bag or box from loosing.

15. Applicable law

“Law regarding the disposal and cleaning of waste material”

16. Utilization of above information

The above description has been prepared based on the latest data available. But, the physical properties, hazardous and toxicological information are not guarantee data. The cautions are mentioned for the case of normal handling. In the case of special handling, please apply safety precaution in consideration of application and method of using.
