

<b>PRODUCT SAFETY DATA SHEET</b>
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CHEMICAL PRODUCT & COMPANY IDENTIFICATION    COMPANY    **TOMBOW PENCIL CO., LTD.**

DOMICILE    TOSHIMA 6-10-12    KITAKU    TOKYO    JAPAN

DEPARTMENT    ENVIRONMENTAL IMPACT    QUALITY    UNIT

TEL 03-3912-1308    FAX 03-3912-1536    SIG.

URGENT MAIL    **webmaster@star.tombow.co.jp**

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CHEMICAL PRODUCT

Adhesive Glue Pen

Aqua PIT Pen “Strong” ( XA PT-WP )

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COMPOSITION / INFORMATION ON INGREDIENTS

Glue

Emulsion : Water    69.8%

Polyurethane    30.0%

Additives=Antibiotics    0.2%

Coloring Agent    trace

Body & Cap

Body : PS resin

Cap : PP resin

These are not dangerous goods regulated by UN classification and UN number.

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HAZARDS IDENTIFICATION

Special Attention will not be needed.

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FIRST-AID MEASURES	Inhalations	Move to fresh air area
	Eyes	Flush thoroughly with water and get prompt medical attention
	Skin	Wash with water with soap
	Ingestion	Vomit by force. Drink water .

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FIRE-FIGHTING MEASURES

Fighting with much Water

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## HANDLING & STORAGE

Avoid all sources of ignition-heat, sparks open flame.  
Adequate ventilation and clean up will be maintained.

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## EXPOSURE CONTROLS / PERSONAL PROTECTION

TLVs & BEIs Not classified (ACGIH)

Protection Avoid high temperature.

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## PHYSICAL & CHEMICAL PROPERTIES

PROPERTIES Bp: about 110□ ( Liquid Glue )  
Vapor Pressure about 21mHg/25□ ( Liquid Glue )  
Mp: about -20□ Density 1.03(Glue)  
0.98(Body & Cap)  
pH: 7.0~8.5 ( Liquid Glue )  
Solubility: Soluble to any portion in Water

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## STABILITY & REACTIVITY

Flash Point & Ignition Point : above 160□  
Flammability : Flammable ( Body & Cap )  
Oxidation : Partially Spontaneous Explosion : None  
Powder Explosion : None Stability & Reactivity : Stable

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## TOXICOLOGICAL INFORMATION

Acute Toxicity : LD<sub>50</sub> 2000mg/Kg ( mouse ) Antibiotics

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## ECOLOGICAL INFORMATION

Stable but partially disorganized by bacteria

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## DISPOSAL CONSIDERATION

Don't Put Into the Flame

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TRANSPORT INFORMATION

Avoid High Temperature

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REGULATORY INFORMATION

Free from heavy metals of EN-71, Part 3.

Satisfied with EU Directive 2000/53/EC (ELV Directive)

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OTHER INFORMATION

ACGIH, NTP, IARC, RTECS

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2007/09/20 Settled.