

Safety data sheet for chemical products

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SX-101-10 Black [JETSTREAM 101]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN
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2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature:

Component parts : Ink

Chemical or generic name	CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Glycol ether	56539-66-3	Registered	2602524	50- 80
Coloring agents	Registered	Registered	Registered	10- 30
Carbon Black	1333-86-4	Registered	2156099	< 10
Polypropylene glycol	Registered	Registered	Polymer	< 10
Additives	Registered	Registered	Polymer	< 10
Resins	Registered	Registered	Polymer	< 10

Other parts : Other parts are excluded from 'chemical substances'.

3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Information of components.

<Carbon Black>

MAJOR HEALTH HAZARDS: suspect cancer hazard (in animals)

4. FIRST-AID MEASURES

Inhalation:

Not applicable.

(Due to its low vapor pressure. Inhalation is unlikely at room temperature.)

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse.

Eye contact:

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

Ingestion:

If swallowed, seek medical advice, and show the MSDS to the physician then.

[Ink quantity of refill(SXR-72-10) : about 0.22g]

5. FIRE-FIGHTING MEASURES

Fire and explosion measures : Slight fire hazard.

Extinguishing media:

Suitable : regular dry chemical, carbon dioxide, water, regular foam.

Large fires : Use regular foam or flood with fine water spray.

Fire fighting : Move container from fire area if it can be done without risk.
Use extinguishing agents appropriate for surrounding fire.
Avoid inhalation of material or combustion by-products.
Stay upwind and keep out of low areas.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Not available.

Environmental precautions : Do not wash away into shower or water way.

Methods for cleaning up : Take / Soak up with absorbent.

: In accordance with national, state and local regulations.

7. HANDLING AND STORAGE

Store and handle in accordance with all current regulations and standards.

Keep separated from incompatible substances.

Handling:

Technical measures : Don't swallow ink.
: Don't shake.
: Keep out of the reach of children.
: Avoid contact with skin and eyes.

Precautions : Not available.

Safe handling advice : Not available.

Storage:

Technical measures : Keep away from oxidizing materials, ignition sources and high temperature.

Storage condition : Avoid direct sunlight.
: Do not leave the products in high temperature space.
: Recommended temperature: 0-30 C.

Incompatible products : (Information of components.)

oxidizing materials, organic peroxides	Glycol ether
strong oxidizers	Coloring agent / Additive
oxidizing materials, halogens	Carbon Black
oxidizing materials	Polypropylene glycol / Resin

Packaging materials : Not applicable.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	3.5mg/m ³ TWA	Carbon Black
ACGIH	3.5mg/m ³ TWA	Carbon Black
	10mg/m ³ TWA(Nuisance dust)	Resin
EC	3.5mg/m ³ TWA	Carbon Black

Personal protective equipment : Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

[] : Information of components.

Physical state and form	: High viscous liquid.
Color	: Black.
Odor	: None odor.
pH	: Not applicable.
Boiling point	: Not available. [Glycol ether/ 174 C]
Melting point	: Not available.
Flash point	: Not available. [Glycol ether/ 68 C]
Autoignition temperature	: Not available. [Glycol ether/ 395 C]
Explosion limits	: Not applicable.
Density	: Not available.
Vapor density (air=1)	: Not available. [Glycol ether/ 4.1]
Solubility in water	: Not available.
Evaporation rate	: Not available.
Volatile	: 52-55%

10. STABILITY AND REACTIVITY

Stability : Stability.

Hazardous reactions : Will not occur.

Conditions to avoid : Avoid heat, flames, sparks and other sources of ignition.
Avoid contact with incompatible materials.

Materials to avoid : (Information of components.)

oxidizing materials, organic peroxides	Glycol ether
strong oxidizers	Coloring agent / Additive
oxidizing materials, halogens	Carbon Black
oxidizing materials	Polypropylene glycol / Resin

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, sulfur.	Coloring agent
carbon monoxide, carbon dioxide, organic products of decomposition	Carbon Black
toxic and/or hazardous gases, miscellaneous decomposition products.	Resin

11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	4300mg/kg-Rat 3900mg/kg-Rat >8000mg/kg-Rat 57000mg/kg-Rat >3000mg/kg-Rat	Glycol ether Coloring agent Carbon Black Polypropylene glycol Resin
Inhalation LC50	Not available.	
Skin LD50	>2000mg/kg	Glycol ether

Local effects Irritant; inhalation, skin Carbon Black
 Irritant; eye Resin

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Carbon Black

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation	Carbon Black / Resin
Skin contact	inflammation	Glycol ether
	irritation	Coloring agent / Carbon Black / Polypropylene glycol / Additive / Resin
Eye contact	irritation	Glycol ether / Coloring agent / Polypropylene glycol / Additive / Resin
	mechanical irritation,	Carbon Black
Ingestion	nausea, vomiting	Polypropylene glycol
Specific effects	IARC Group 2B	Carbon Black

12. ECOLOGICAL INFORMATION

Not available.

13. DISPOSAL CONSIDERATIONS

Waste from residues : Disposal in accordance with all current regulations and standards.

Contaminated packaging : Not applicable.

14. TRANSPORT INFORMATION

HS Code : 960810

15. REGULATORY INFORMATION

Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Carbon Black

EU labeling Xi;R36/38 : Additive

CANADA Hazardous Products Act - Ingredient Disclosure List
1%over : Carbon Black

Hazard and safety information

Products are manufactured in accordance with ISO 8124-3 " Safety of Toys - Part 3"

16. OTHER INFORMATION

This sheet completes the technical sheet of use but it doesn't replace it.
The information contained in this sheet are based knowledge of the products
at the data : (August 4, 2010). They are given quite sincerely.
Moreover the attention of the users is drawn on the risks possibly taken,
when a product is used for other utilization than these which it is intended.