

# Safety data sheet for chemical products

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SXN-150S Black [ JETSTREAM SPORT ]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.

Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN

Telephone number : 03-3458-6281                      Telefax number : 03-3450-0363

Creation Date : March 8 , 2012

Revision Date

File No. : 061372A      Rev. 2.5.01.01

## 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	Registered	Registered	Registered	50- 80
Additives	Registered	Registered	Registered	10- 30
Coloring agents	Registered	Registered	Registered	10- 30
Carbon Black	1333-86-4	Registered	2156099	< 10
Resins	Registered	Registered	Polymer	< 10
Polypropylene glycol	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-10) : about 300mg]

## 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

oxidizing materials, strong oxidizers Additive

oxidizing materials Coloring agent / Resin / Polypropylene glycol

oxidizing materials, halogens Carbon Black

Packaging materials : Not applicable.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	3.5mg/m <sup>3</sup> TWA	Carbon Black
ACGIH	3.5mg/m <sup>3</sup> TWA	Carbon Black
	10mg/m <sup>3</sup> TWA	Resin
EC	3.5mg/m <sup>3</sup> TWA	Carbon Black

Personal protective equipment : Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state : Liquid.  
 Color : Black.  
 Odor : None odor.  
 pH : Not applicable.  
 Boiling point : Not available. [Glycol ether/ 174 C]  
 Melting point : <-20 C  
 Flash point : Not available. [Glycol ether/ 68 C]  
 Autoignition temperature : Not available. [Polypropylene glycol/ 201 C]  
 Explosion limits : Not applicable.  
 [ Lower flammable limit / 1.2% , Upper flammable limit / 13.1% <Glycol ether> ]  
 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
oxidizing materials, strong oxidizers	Additive
oxidizing materials	Coloring agent / Resin / Polypropylene glycol
oxidizing materials, halogens	Carbon Black

Hazardous decomposition products	: (Information of components.)
oxides of carbon, water	common decomposition products
miscellaneous decomposition products.	Additive / Resin
oxides of nitrogen, carbon, halogenated compounds.miscellaneous decomposition products.	Coloring agent
carbon monoxide, carbon dioxide, organic products of decomposition, sulphoxides.	Carbon Black

## 11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	4300mg/kg-Rat	Glycol ether
	413mg/kg-Rat	Coloring agent
	75mg/kg-Rabbit	
	105mg/kg-Mouse	
	>8000mg/kg-Rat	Carbon Black
	>5000mg/kg-Rat	Resin
	57000mg/kg-Rat	Polypropylene glycol
Inhalation LC50	Not available.	
Skin LD50	>2000mg/kg	Glycol ether

Local effects	Irritant:eye	Coloring agent / Resin
	Irritant:inhalation, skin	Carbon Black

Chronic toxicity and long term toxicity

Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.	Carbon Black
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Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,respiratory allergies	Additive
	irritation	Carbon Black / Resin
Skin contact	inflammation	Glycol ether
	irritation,erosion	Additive
	irritation	Coloring agent / Carbon Black / Resin / Polypropylene glycol
Eye contact	irritation	Glycol ether / Additive / Resin / Polypropylene glycol
	irritation,conjunctivitis	Coloring agent
	mechanical irritation, discoloration of lids	Carbon Black
Ingestion	nausea,vomiting	Coloring agent / Polypropylene glycol

Specific effects	IARC Group 2B	Carbon Black
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## 12. ECOLOGICAL INFORMATION

Not available.

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### 13. DISPOSAL CONSIDERATIONS

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Waste from residues : Disposal in accordance with all current regulations and standards.  
Contaminated packaging : Not applicable.

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### 14. TRANSPORT INFORMATION

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HS Code : 960810

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### 15. REGULATORY INFORMATION

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Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Carbon Black

EU labeling  
Xi;R36/38 : Resin

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"

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### 16. OTHER INFORMATION

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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 : (March 8 , 2012). 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.

# Safety data sheet for chemical products

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SXN-150S Blue [ JETSTREAM SPORT ]  
 Manufacture's name : MITSUBISHI PENCIL CO.,LTD.  
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN  
 Telephone number : 03-3458-6281      Telefax number : 03-3450-0363

Creation Date : March 8 , 2012  
 Revision Date  
 File No. : 061373A      Rev. 2.5.02.01

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Chemical or generic name	Component parts : Ink CAS No.	TSCA	EINECSNo.	Concentration range (wt%)
Glycol ether	Registered	Registered	Registered	50- 80
Additives	Registered	Registered	Registered	10- 30
Coloring agents	Registered	Registered	Registered	10- 30
Resins	Registered	Registered	Registered	< 10
Polypropylene glycol	Registered	Registered	Polymer	< 10
1,2-Propanediol	57-55-6	Registered	2003380	< 10
Carbon Black	1333-86-4	Registered	2156099	< 1

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

## 3. HAZARDS IDENTIFICATION

Most important hazards : Not available.  
 Specific hazards : Not available.

## 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-10) : about 300mg]

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## 5. FIRE-FIGHTING MEASURES

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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.

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## 6. ACCIDENTAL RELEASE MEASURES

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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.

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## 7. HANDLING AND STORAGE

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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
oxidizing materials, strong oxidizers	Additive
oxidizing materials	Coloring agent / Resin / Polypropylene glycol
acids, bases, combustible materials,	1,2-Propanediol
halo carbons, metals, metal salts,	
oxidizing materials, reducing agents	
oxidizing materials, halogens	Carbon Black

Packaging materials : Not applicable.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	3.5mg/m <sup>3</sup> TWA	Carbon Black
ACGIH	10mg/m <sup>3</sup> TWA	Resin
	3.5mg/m <sup>3</sup> TWA	Carbon Black
EC	3.5mg/m <sup>3</sup> TWA	Carbon Black

Personal protective equipment : Not required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

[ ] : Information of components.

Physical state	: Liquid.
Color	: Blue.
Odor	: None odor.
pH	: Not applicable.
Boiling point	: Not available. [Glycol ether/ 174 C]
Melting point	: <-20 C
Flash point	: Not available. [Glycol ether/ 68 C]
Autoignition temperature	: Not available. [Polypropylene glycol/ 201 C]
Explosion limits	: Not applicable.
	[ Lower flammable limit / 1.2% , Upper flammable limit / 13.1% <Glycol ether> ]
Density	: Not available.
Vapor density (air=1)	: Not available. [Glycol ether/ 4.1]
Solubility in water	: Not available.
Evaporation rate	: Not available.
Volatile	: 51-54%



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## 10. STABILITY AND REACTIVITY

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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
oxidizing materials, strong oxidizers		Additive
oxidizing materials		Coloring agent / Resin / Polypropylene glycol
acids, bases, combustible materials, halo carbons, metals, metal salts, oxidizing materials, reducing agents		1,2-Propanediol
oxidizing materials, halogens		Carbon Black
Hazardous decomposition products	:	(Information of components.)
oxides of carbon, water		common decomposition products
miscellaneous decomposition products.		Additive / Resin
oxides of nitrogen, carbon, halogenated compounds.		Coloring agent
carbon monoxide, carbon dioxide, organic products of decomposition, sulphoxides.		Carbon Black

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## 11. TOXICOLOGICAL INFORMATION

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(Information of components)

### Acute toxicity

Ingestion LD50	4300mg/kg-Rat ≥ 5000mg/kg-Rat >5000mg/kg-Rat 57000mg/kg-Rat 20000mg/kg-Rat >8000mg/kg-Rat	Glycol ether Coloring agent Resin Polypropylene glycol 1,2-Propanediol Carbon Black
Inhalation LC50	Not available.	
Skin LD50	>2000mg/kg 20800mg/kg-Rabbit	Glycol ether 1,2-Propanediol
Local effects	Irritant;eye Irritant;inhalation, skin	Resin Carbon Black

### Chronic toxicity and long term toxicity

Repeated or prolonged contact may cause skin sensitization.	1,2-Propanediol
Lungs may be affected by repeated or prolonged exposure at very high concentrations. Respiratory disorders.	Carbon Black

## Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation, respiratory allergies irritation  nausea, headache	Additive Coloring agent / Resin / Carbon Black  1,2-Propanediol
Skin contact	inflammation irritation, erosion irritation  irritation, allergic reaction	Glycol ether Additive Coloring agent / Resin / Polypropylene glycol / Carbon Black  1,2-Propanediol
Eye contact	irritation  irritation, pain mechanical irritation, discoloration of lids	Glycol ether / Additive / Coloring agent / Resin / Polypropylene glycol 1,2-Propanediol Carbon Black
Ingestion	laxative effect, dark-colored urine nausea, vomiting allergic reaction, vomiting	Coloring agent  Polypropylene glycol 1,2-Propanediol
Specific effects	IARC Group 2B	Carbon Black

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## 12. ECOLOGICAL INFORMATION

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Not available.

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## 13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging : Not applicable.

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## 14. TRANSPORT INFORMATION

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HS Code : 960810

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## 15. REGULATORY INFORMATION

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### Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Carbon Black

### EU labeling

Xi:R36/38 : Resin

### CANADA Hazardous Products Act - Ingredient Disclosure List

1%over : 1,2-Propanediol / Carbon Black

### Hazard and safety information

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

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## 16. OTHER INFORMATION

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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 : (March 8 , 2012). 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.

# Safety data sheet for chemical products

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SXN-150S Red [ JETSTREAM SPORT ]

Manufacture's name : MITSUBISHI PENCIL CO.,LTD.  
 Address : 5-23-37, HIGASHIOHI, SHINAGAWA, TOKYO, JAPAN  
 Telephone number : 03-3458-6281      Telefax number : 03-3450-0363

Creation Date : March 8, 2012  
 Revision Date :  
 File No. : 061374A      Rev. 2.5.01.01

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The chemical product is a substance or a preparation : Preparation

Chemical nature: Chemical or generic name	Component parts : Ink			Concentration range (wt%)
	CAS No.	TSCA	EINECSNo.	
Glycol ether	Registered	Registered	Registered	50- 80
Coloring agents	Registered	Registered	Registered	10- 30
Additives	Registered	Registered	Registered	10- 30
Resins	Registered	Registered	Polymer	< 10
Polypropylene glycol	Registered	Registered	Polymer	< 10

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

## 3. HAZARDS IDENTIFICATION

Most important hazards : Not available.

Specific hazards : Not available.

## 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-10) : about 300mg]

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## 5. FIRE-FIGHTING MEASURES

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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.

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## 6. ACCIDENTAL RELEASE MEASURES

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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.

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## 7. HANDLING AND STORAGE

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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

oxidizing materials Coloring agent / Resin / Polypropylene glycol

oxidizing materials, strong oxidizers Additive

Packaging materials : Not applicable.

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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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Engineering measures : Not required.

Control parameters (Information of components.)

OSHA	Not available.	
ACGIH	10mg/m3 TWA	Resin
EC	Not available.	

Personal protective equipment : Not required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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[ ] : Information of components.

Physical state : Liquid.  
 Color : Red.  
 Odor : None odor.  
 pH : Not applicable.  
 Boiling point : Not available. [Glycol ether/ 174 C]  
 Melting point : <-20 C  
 Flash point : Not available. [Glycol ether/ 68 C]  
 Autoignition temperature : Not available. [Glycol ether/ 395 C]  
 Explosion limits : Not applicable.  
     [ Lower flammable limit / 1.2% , Upper flammable limit / 13.1% <Glycol ether> ]  
 Density : Not available.  
 Vapor density (air=1) : Not available. [Glycol ether/ 4.1]  
 Solubility in water : Not available.  
 Evaporation rate : Not available.  
 Volatile : 50-53%

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## 10. STABILITY AND REACTIVITY

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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
oxidizing materials	Coloring agent / Resin / Polypropylene glycol
oxidizing materials, strong oxidizers	Additive

Hazardous decomposition products : (Information of components.)

oxides of carbon, water	common decomposition products
oxides of nitrogen, carbon, halogenated compounds.	Coloring agent
miscellaneous decomposition products.	Additive / Resin

## 11. TOXICOLOGICAL INFORMATION

(Information of components)

Acute toxicity

Ingestion LD50	4300mg/kg-Rat 400mg/kg-Rat(approximation Exciton) >5000mg/kg-Rat 57000mg/kg-Rat	Glycol ether Coloring agent Resin Polypropylene glycol
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Inhalation LC50	Not available.	
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Skin LD50	>2000mg/kg ≥2000mg/kg-Rat	Glycol ether Coloring agent
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Local effects                      Irritant:skin, eye                      Coloring agent  
   Irritant:eye                                      Resin

Chronic toxicity and long term toxicity                      : Not available.

Signs and Symptoms of overexposure and aggravated by exposure

Inhalation	irritation,respiratory allergies irritation	Additive Resin
Skin contact	inflammation irritation,red staining irritation,erosion irritation	Glycol ether Coloring agent Additive Resin / Polypropylene glycol
Eye contact	irritation	Glycol ether / Coloring agent / Additive / Resin / Polypropylene glycol
Ingestion	nausea,vomiting	Polypropylene glycol

Specific effects                      IARC Group 3                                      Coloring agent

## 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

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## 15. REGULATORY INFORMATION

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### Regulations (Information of components)

Hazardous chemicals (OSHA HCS) : Not restricted.

#### EU labeling

25% ≤ Xn;R22 : Coloring agent

Xi;R36/38 : Resin

CANADA Hazardous Products Act - Ingredient Disclosure List

: Not restricted.

### Hazard and safety information

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

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## 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 : (March 8 , 2012). 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.