



In accordance with Regulation (EC) No. 1907/2006

Classification

Xn



Issuing date 11-Oct-2011

1. PRODUCT AND COMPANY IDENTIFICATION
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Identification of the substance/preparation

Product Code	8045290
Product name	6993 X-50 BLACK
Recommended use	Printing ink

Company/Undertaking Identification**Company**

Markem-Imaje S.A.S.
9, rue Gaspard Monge - BP 110
26501 Bourg-lès-Valence cedex
France

e-mail: sds@markem-imaje.com
Tel: (33) 4 75 75 55 00
Fax: (33) 4 75 82 98 10

Emergency Telephone Numbers:
Markem-Imaje S.A.S.: (33) 4 75 75 55 00
INRS* (Orfila): (33) 1 45 42 59 59

Emergency telephone number

Markem-Imaje S.A.S.: (33) 4 75 75 55 00
INRS (Orfila): (33) 1 45 42 59 59

Supplier Address

2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC

Harmful if swallowed
Irritating to eyes

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Mixture of solvents, polymers, colorants and additives

Hazardous components

Chemical Name	CAS-No	EC-No	Weight %	Classification
Ethylene glycol monophenyl ether	122-99-6	204-589-7	80 - 90	Xn; R22 Xi; R36
Diethylene glycol monophenyl ether	104-68-7	203-227-5	5 - 10	Xn;R22
Silica, amorphous	7631-86-9	231-545-4 418-260-2	1 - 5	-

4. FIRST AID MEASURES

General advice

Immediate medical attention is required. If symptoms persist, call a physician.

Inhalation

Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapours. If symptoms persist, call a physician.

Eye contact

Immediately flush with plenty of water. Keep eye wide open while rinsing. Call a physician immediately. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If symptoms persist, call a physician.

Ingestion

Do NOT induce vomiting. Call a physician or poison control centre immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and afterwards drink plenty of water. Consult a physician.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

carbon dioxide (CO₂), dry chemical, alcohol-resistant foam, water spray.

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

Method

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit. Fire or intense heat may cause violent rupture of packages. Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up

Use personal protective equipment. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapours or spray mist. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation.

Storage

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labelled containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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Engineering measures

Ensure adequate ventilation Ensure that eyewash stations and safety showers are close to the workstation location

Exposure limits

Chemical Name	EU	The United Kingdom	France	Spain	Germany
Ethylene glycol monophenyl ether					MAK: 20 ppm MAK: 110 mg/m ³ Ceiling / Peak: 40 ppm Ceiling / Peak: 220 mg/m ³ Skin TWA: 20 ppm TWA: 110 mg/m ³
Silica, amorphous		STEL: 18 mg/m ³ STEL: 7.2 mg/m ³ STEL: 18 mg/m ³ TWA: 6 mg/m ³ TWA: 2.4 mg/m ³			MAK: 4 mg/m ³ TWA: 4 mg/m ³

Chemical Name	Italy	Portugal	The Netherlands	Finland	Austria
Ethylene glycol monophenyl ether				TWA: 20 ppm TWA: 110 mg/m ³ STEL: 50 ppm STEL: 290 mg/m ³ Skin	Skin STEL 20 ppm STEL 110 mg/m ³ MAK: 20 ppm MAK: 110 mg/m ³ Ceiling 20 ppm Ceiling 110 mg/m ³
Silica, amorphous					MAK: 4 mg/m ³

Chemical Name	Switzerland	Poland	Norway	Ireland	Denmark
Ethylene glycol monophenyl ether	Skin STEL: 40 ppm STEL: 220 mg/m ³ MAK: 20 ppm MAK: 110 mg/m ³	NDS: 230 mg/m ³			
Silica, amorphous	MAK: 4 mg/m ³ MAK: 0.3 mg/m ³ MAK: 4 mg/m ³		TWA: 1.5 mg/m ³ STEL: 3 mg/m ³	TWA: 6 mg/m ³ TWA: 2.4 mg/m ³ TWA: 6 mg/m ³	

Personal protective equipment

Respiratory protection

not required under normal use. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Impervious gloves made from

Eye protection

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	liquid
Colour	black
Odour	Characteristic
pH	NA

Important Health Safety and Environmental Information

Flash point 121°C250°F

Explosion limits

Melting point/range °CND°F

Boiling point/range 242°C468°F

Autoignition temperature 495°C923°F

Water solubility Insoluble in water
Partition coefficient: n-octanol/water no data available

VOC Content(%) European Union no data available

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Hazardous reactions	Hazardous polymerisation does not occur
Hazardous Decomposition Products	Carbon dioxide (CO ₂). Carbon monoxide. Smoke.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Inhalation	Irritating to respiratory system. May be harmful if inhaled. Harmful by inhalation. May cause irritation of respiratory tract.
Skin contact	Substance may cause slight skin irritation. Harmful by skin absorption.
Eye contact	Mild eye irritation.
Ingestion	Harmful if swallowed. Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethylene glycol monophenyl ether	1260 mg/kg (Rat)	14422 mg/kg (Rat) 5 mL/kg (Rabbit)	
Diethylene glycol monophenyl ether	2140 mg/kg (Rat)	2120 µL/kg (Rabbit)	
Silica, amorphous	5000 mg/kg (Rat)	2000 mg/kg (Rabbit)	>2.2 mg/L (Rat) 4 h

Chemical Name	IARC	UK
Silica, amorphous	Group 3	

Chronic toxicity

May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects. Avoid repeated exposure.

12. ECOLOGICAL INFORMATION

Mobility

The product is insoluble and sinks in water.

Biodegradation

Some ingredients of this material have some potential to biodegrade, but most ingredients have a limited potential to biodegrade or have not been tested.

Chemical Name	CAS-No	log Pow	Toxicity to Algae	Toxicity to microorganisms	German Water Class (VwVwS) Annex 2
Ethylene glycol monophenyl ether	122-99-6	1.13	500: 72 h Desmodesmus subspicatus mg/L EC50		1650
Silica, amorphous	7631-86-9		440: 72 h Pseudokirchneriella subcapitata mg/L EC50		

Chemical Name	CAS-No	Daphnia Magna (Water Flea)	LC50/96h/Fathead minnows =	GHS Aquatic Toxicity Classified
Ethylene glycol monophenyl ether	122-99-6	500: 48 h Daphnia magna mg/L EC50	220	
Silica, amorphous	7631-86-9	7600: 48 h Ceriodaphnia dubia mg/L EC50	5000	

13. DISPOSAL CONSIDERATIONS

**Waste disposal methods
Contaminated packaging**

Dispose of in accordance with local regulations
Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

ADR

Proper shipping name	Not applicable
UN-No	Not applicable
Hazard Class	Not applicable
Packing group	Not applicable
Classification Code	Not applicable

IMDG/IMO

Proper shipping name	Not applicable
UN-No	Not applicable
Hazard Class	Not applicable
Packing group	Not applicable
EmS	Not applicable

IATA

Proper shipping name	NOT RESTRICTED
UN-No	Not applicable
Hazard Class	Not applicable

14. TRANSPORT INFORMATION

Packing group
ERG Code

Not applicable
Not applicable

15. REGULATORY INFORMATION

In accordance with local and national regulations: The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Labelling

Xn - Harmful

Xn



R-phrases(s)

R22 - Harmful if swallowed

R36 - Irritating to eyes

S-phrases(s)

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

- R21 - Harmful in contact with skin
- R20 - Harmful by inhalation
- R36 - Irritating to eyes
- R22 - Harmful if swallowed