

SAFETY DATA SHEET

Issuing date 26-Jan-2017

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Code A26021
Product name A26021

Relevant identified uses of the substance or mixture and uses advised against

Recommended use Printing ink
Uses advised against No information available

Details of the supplier of the safety data sheet

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

MARKEM-IMAJE GMBH
Schockenriedstr. 8 C
70565 Stuttgart
Phone: +49 711 78403-0
Fax: +49 711 78403-35

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

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture *REGULATION (EC) No 1272/2008*

Label elements

Product identifier

Classification not possible

Signal word

none

Other hazards**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****Chemical nature of the preparation**

Preparation.

Chemical Name	EC-No	CAS-No	Weight %	GHS Classification	REACH No
1,2-Propylene glycol	200-338-0	57-55-6	10 - 20	Not hazardous	Not available
2-Propanol, 1-(1-methyl-2-propoxyethoxy)-	249-949-4	29911-27-1	1 - 5	Not hazardous	Not available

Section 4: FIRST AID MEASURESDescription of first aid measures

Inhalation	Move to fresh air. Keep at rest. If breathing is irregular or stopped, administer artificial respiration. Immediate medical attention is required.
Skin contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes
Eye contact	Rinse immediately with plenty of water for at least 15 minutes. Call a physician immediately.
Ingestion	If swallowed, do not induce vomiting - seek medical advice.

Most important symptoms and effects, both acute and delayed**Most Important Symptoms/Effects** No information availableIndication of any immediate medical attention and special treatment needed**Notes to physician** Treat symptomatically**Section 5: FIRE FIGHTING MEASURES**Extinguishing media**Suitable extinguishing media**

water. carbon dioxide (CO2). foam. dry chemical.

Extinguishing media which must not be used for safety reasons

high volume water jet

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective suit.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Wear self-contained breathing apparatus and protective suit. Prevent further leakage or spillage if safe to do so.

Environmental precautions

The product should not be allowed to enter drains, water courses or the soil. Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains. Beware of vapours accumulating to form explosive concentrations.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so

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.

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Handle and open container with care. Avoid contact with skin, eyes and clothing. Do not breathe vapours/dust. Ensure adequate ventilation. Do not use pressure to empty drums. Container hazardous when empty.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a cool, well-ventilated place. Keep away from direct sunlight. Keep in properly labelled containers. Keep at temperature not exceeding 35°C.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	EU	The United Kingdom	France	Spain	Germany
1,2-Propylene glycol 57-55-6		TWA: 150 ppm TWA: 474 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1422 mg/m ³ STEL: 30 mg/m ³	-	-	-
2-Propanol, 1-(1-methyl-2-propoxyethoxy)- 29911-27-1			-	-	-

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
1,2-Propylene glycol 57-55-6	-		-		
2-Propanol, 1-(1-methyl-2-propoxyethoxy)- 29911-27-1	-		-		

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
1,2-Propylene glycol 57-55-6	-			TWA: 25 ppm TWA: 79 mg/m ³ STEL: 37.5 ppm STEL: 118.5 mg/m ³	TWA: 150 ppm TWA: 470 mg/m ³ TWA: 10 mg/m ³ STEL: 450 ppm STEL: 1410 mg/m ³ STEL: 30 mg/m ³
2-Propanol, 1-(1-methyl-2-propoxyethoxy)- 29911-27-1	-				

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

Exposure controls

Engineering measures Ensure adequate ventilation.

Personal protective equipment

Eye/face protection tightly fitting safety goggles
Hand protection Wear protective gloves. impervious butyl rubber gloves.
Skin and body protection long sleeved clothing
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls No information available

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Colour	black
Odour	slight		
Odour Threshold	No information available		
Property	Values	pH	8.0 < < 10.0
Melting/freezing point	<5°C / <41°F	Boiling point/range	>95°C / >203°F
Flash point	>99°C / >210°F		
Flammability Limits in Air			
lower flammability limit	Not applicable	Solubility in other solvents	No information available
upper flammability limit	Not applicable	Decomposition temperature	No information available
Autoignition temperature	>350°C / >662°F	Dynamic viscosity	No information available
Kinematic viscosity	No information available		
Oxidizing properties	No information available		

OTHER INFORMATION

Vapour pressure	2.3 kPa (20 °C)
Relative vapour density	<1
Density	1.015 (20 °C)
Water solubility	Soluble in water
Partition coefficient: n-octanol/water	no data available

Section 12: ECOLOGICAL INFORMATION

Chemical Name	CAS-No	log Pow	Toxicity to Algae	Toxicity to microorganisms	German Water Class (VwVwS) Annex 2
1,2-Propylene glycol	57-55-6		19000: 96 h Pseudokirchneriella subcapitata mg/L EC50		280

Chemical Name	CAS-No	Daphnia Magna (Water Flea)	Toxicity to fish
1,2-Propylene glycol	57-55-6	1000: 48 h Daphnia magna mg/L EC50 Static 10000: 24 h Daphnia magna mg/L EC50	41 - 47: 96 h Oncorhynchus mykiss mL/L LC50 static 51400: 96 h Pimephales promelas mg/L LC50 static 51600: 96 h Oncorhynchus mykiss mg/L LC50 static 710: 96 h Pimephales promelas mg/L LC50

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused Products Dispose of in accordance with local regulations

Section 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN-No not regulated
 14.2.
 14.3. Hazard Class none
 14.4. Packing group not regulated
 14.5. Marine pollutant none.

ADR

14.1. UN-No not regulated
 14.2.
 14.3. Hazard Class not regulated.
 14.4. Packing group not regulated

IATA

14.1. UN-No Not applicable
 14.2. Proper shipping name No information available
 14.3. Hazard Class Not applicable
 14.4. Packing group Not applicable

Section 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

In accordance with Regulation (EC) No. 1272/2008

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Chemical Safety Assessment

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms

Issuing date 26-Jan-2017

Reason for revision All

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

End of Safety Data Sheet