



Safety Data Sheet

1. Identification of the substance / preparation and the Company

1.1 Identification of the substance or preparation

Product name Morgan's smalto epossidico lacca ce ramica

1.2 Use of the substance / preparation

Intended use Solventless epoxy paint

1.3 Company identification

Name J COLORS S.p.A.
Full address VIA SETTEMBRINI, 39
District and Country 20020 LAINATE MI
ITALIA
Tel. +39 02 937541
Fax +39 02 93754274

e-mail address of the competent person responsible for the Safety Data Sheet lab@jcolors.com

Product distribution by Laboratorio J Colors S.p.A
+39 02 93754222/243

1.4 Emergency telephone

For urgent inquiries refer to Centro Antiveleni Milano
Niguarda +39 02 66101029

2. Hazards Identification

2.1 Substance/Preparation Classification

This product is dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Therefore, this product requires a safety data sheet according to the Regulation (EC) 1907/2006 and subsequent amendments. Further information on health and/or environmental hazards can be found in sections 11 and 12 of this sheet.

Danger Symbols: Xi-N
R phrases: 36/38 - 43 - 51/53

2.2 Danger Identification

IRRITATING TO EYES AND SKIN.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

This product contains epoxy resins. Producer's specifications are as follows:

Because of epoxy-product properties and according to the toxicological data available for similar products, this preparation may sensitize and irritate the skin and the respiratory system.

It contains epoxy components at low molecular weights, which may irritate eyes, mucosas and skin. Frequent contact with skin may cause irritation and sensitization phenomena. Sensitization reactions may also be caused by other epoxy components (cross-sensitization).

Avoid contact with skin and exposure to vapours and aerosols.



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3. Composition / Information on ingredients

Contains:

Name	Concentration % (C)	Classification
GLYCIDIL ETHER C12-C14	6,90<= C <9,00	Xi R38
<i>C.A.S. number</i> 68609-97-2		Xi R43
<i>EC number</i> 271-846-8		N R51/53
LIQ.EPOXY RESIN (PM<700)	9,00<= C <14,00	Xi R36/38
<i>C.A.S. number</i> 40216-08-8		Xi R43
		N R51/53
XYLENE (MIXTURE OF ISOMERS)	0,25<= C <0,30	Xn R20/21
<i>C.A.S. number</i> 1330-20-7		Xn R65
<i>EC number</i> 215-535-7		Xi R38
<i>INDEX number</i> 601-022-00-9		R10
		Note C
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)	34,00<= C <40,00	Xi R36/38
<i>C.A.S. number</i> 25068-38-6		Xi R43
<i>EC number</i> 500-033-5		N R51/53
<i>INDEX number</i> 603-074-00-8		

The complete text of -R- phrases is specified in section 16.

4. First aid measures

EYES: Irrigate copiously with clean, fresh water for at least 15 minutes. Seek medical advice.

SKIN: Wash immediately with plenty of water. Remove contaminated clothing. If irritation persists, seek medical attention. Wash contaminated clothing before using them again.

INHALATION: Remove to open air. If breathing is irregular, seek medical advice.

INGESTION: Obtain immediate medical attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person.

5. Fire-fighting measures

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SUITABLE EXTINGUISHING MEDIA

The extinction equipment should be of the conventional kind: carbon dioxide, foam, powder and nebulised water.

EXTINGUISHING MEDIA WHICH SHALL NOT BE USED FOR SAFETY REASONS

None in particular.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products (carbon oxide, toxic pyrolysis products, etc).

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Hardhat with visor, fireproof clothing (fireproof jacket and trousers with straps around arms, legs and waist), work gloves (fireproof, cut proof and dielectric), a depressurised mask with facemask covering the whole of the operator's face or a self-respirator (self-protector) in the event of large quantities of foam.

6. Accidental release measures

PERSONAL PRECAUTIONS

Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site. If there are no contraindications, spray solid products with water to prevent the formation of dust. Use breathing equipment if fumes or powders are released into the air. Block the leakage if there is no hazard. Do not handle damaged containers or the leaked product before donning appropriate protective gear. For information on risks for the environmental and health, respiratory tract protection, ventilation and personal protection equipment, see the other sections of this sheet.

ENVIRONMENTAL PRECAUTIONS

The product must not penetrate the sewers, surface water, ground water and neighbouring areas.

METHODS FOR CLEANING UP

Use inert absorbent material (sand, vermiculite, diatomaceous earth, Kieselguhr, etc.) to soak up leaked product. Collect the majority of the remaining material and deposit it in containers for disposal. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.



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7. Handling and storage

Store in a well ventilated place, keeping the containers closed when not used. Do not smoke while handling. Keep far away from sources of heat, bright flames and sparks and other sources of ignition.

8. Exposure control / personal protection.

8.1 Exposure limit values

Product name	Type	Country	TWA/8h		STEL/15min		
			mg/m3	ppm	mg/m3	ppm	
XYLENE (MIXTURE OF ISOMERS)	TLV-ACGIH		434	100	651	150	Skin
	OEL	EU	221				Skin
	OEL	IRL		50		100	Skin
	WEL	UK		50		100	Skin

TLV of solvent mixture: 573,000 mg/m3

8.2 Exposure controls

In order to minimize exposure as far as possible, it is strongly recommended to use adequate individual protective measures, such as: masks suitable for the product, goggles, gloves and overall. Do not eat, drink or smoke while handling it. Wash hands accurately with soap and water before meals and at the end of the work shift.

9. Physical and chemical properties

Colour	White
Odour	Typical
Appearance	Liquid
Solubility	Insoluble in water
Viscosity	2200 mPa*s
Vapour density	Not available
Evaporation Rate	Not available
Reactive Properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	Not available
Boiling point	Not available
Flash point	> 61 °C
Explosive properties	Not available
Vapour pressure	0,08 a 20° C
Specific gravity	1,590 Kg/l
Solid content:	99,56%
VOC (Directive 2004/42/EC) :	0,38% - 6,04 g/litre of preparation
VOC (volatile carbon) :	0,32% - 5,08 g/litre of preparation

10. Stability and reactivity

The product is stable in normal conditions of use and storage. When heated or in the event of a fire, carbon oxides may be released and vapours which are dangerous to health. The vapours may also form explosive mixtures with the air.

11. Toxicological information

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Contact with skin may cause: irritation, erythema, edema, dryness and chapped skin. Vapour inhalation may slightly irritate the upper respiratory tract. Ingestion may cause health disorders, including stomach pain and sting, nausea and sickness.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurveys, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas.

Erythemas, edemas and exudative phenomena prevail during the acute phase. Scuffy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

12. Ecological information

This product is dangerous for the environment and is toxic for aquatic organisms. In the long term, it may even have negative effects on aquatic environment.



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13. Disposal consideration

Consider the possibility of burning the product in a suitable incenerator.

Acid or basic products must always be neutralized before undergoing any treatment, including biological treatment whenever feasible. If the waste is solid, it can be disposed of in a landfill.

14. Transport information

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provisions set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations.

These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and rail transport:

ADR/RID Class:	9	UN: 3082	
Packing Group:	III		
Label:	9		
Nr. Kemler:	90		
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN))		

Carriage by sea (shipping):

IMO Class:	9	UN: 3082	
Packing Group:	III		
Label:	9		
EMS:	F-A, S-F		
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN))		

Transport by air:

IATA:	9	UN: 3082	
Packing Group:	III		
Label:	9		
Cargo:			
Packaging instructions:	914	Maximum quantity:	450 L
Pass.:			
Packaging instructions:	914	Maximum quantity:	450 L

15. Regulatory information



R36/38	IRRITATING TO EYES AND SKIN.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
S24/25	AVOID CONTACT WITH SKIN AND EYES.
S26	IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.
S29	DO NOT EMPTY INTO DRAINS.
S37/39	WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.
S61	AVOID RELEASE TO THE ENVIRONMENT. REFER TO SPECIAL INSTRUCTIONS/SAFETY DATA SHEETS.

Contains:

GLYCIDIL ETHER C12-C14
LIQ.EPOXY RESIN (PM<700)
REACTION PRODUCT: BISPHENOL A-(EPICHLORHYDRIN)
Contains epoxy constituents. See information supplied by the manufacturer.

Danger labelling under directives 67/548/EEC and 1999/45/EC and following amendments and adjustments.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

VOC (Directive 2004/42/EC) :

Two-pack reactive performance coatings for specific end use such as floors.

VOC given in g/litre of product in a ready-to-use condition :

Limit value:	550 (2007) - 500 (2010)	VOC of product :	107,03
- Catalysed with :	50,00%	INDURENTE POLIAMMINICO PER S&C	



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16. Other information

Text of -R- phrases quoted in section 3 of the sheet.

R38	IRRITATING TO SKIN.
R43	MAY CAUSE SENSITIZATION BY SKIN CONTACT.
R51/53	TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.
R36/38	IRRITATING TO EYES AND SKIN.
R20/21	HARMFUL BY INHALATION AND IN CONTACT WITH SKIN.
R65	HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.
R10	FLAMMABLE.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments;
2. Directive 67/548/EEC and following amendments and adjustments (technical adjustment XXIX);
3. Regulation (EC) 1272/2008 (CLP) of the European Parliament;
4. Regulation (EC) 1907/2006 (REACH) of the European Parliament;
5. The Merck Index. - 10th Edition;
6. Handling Chemical Safety;
7. Niosh - Registry of Toxic Effects of Chemical Substances;
8. INRS - Fiche Toxicologique (toxicological sheet);
9. Patty - Industrial Hygiene and Toxicology;
10. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition;

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product .

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Changes to previous review

The following sections were modified:

08/09/14/15