

## Safety Data Sheet

### 1. Identification of the substance / preparation and the Company

#### 1.1 Identification of the substance or preparation

Product name **IGROLUX**

#### 1.2 Use of the substance / preparation

Intended use **Transparent, water based, satin or gloss finish protective coating.**

#### 1.3 Company identification

Name **OIKOS SRL**  
Full address **Via Cherubini, 2**  
District and Country **47043 GATTEO A MARE FC**  
**ITALIA**  
Tel. **0039-0547-681412**  
Fax **0039-0547-681430**

e-mail address of the competent person responsible for the Safety Data Sheet **labtech@oikos-paint.com**

#### 1.4 Emergency telephone

For urgent inquiries refer to **0039-0547-681412 Laboratorio R&S. OIKOS srl**  
**0039-0557-947819 Centro Antiveneni (Anti-poison Centre)**  
**OSPEDALE Careggi, Firenze, Italia**

### 2. Hazards Identification

#### 2.1 Substance/Preparation Classification

This product is not dangerous under 67/548/EEC and 1999/45/EC directives and subsequent amendments. Nevertheless, this preparation contains dangerous substances in concentrations that must be declared in section No. 3 and requires a safety data sheet containing all the information required under the Regulation (EC) 1907/2006 and subsequent amendments.

**3. Composition / Information on ingredients**

Contains:

Name	Concentration % (C)	Classification
<b>2-BUTOXYETHANOL</b>	2,40<= C <3,00	Xn R20/21/22
<i>C.A.S. number</i> 111-76-2		Xi R36/38
<i>EC number</i> 203-905-0		
<i>INDEX number</i> 603-014-00-0		

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, diatomeous 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.

**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/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	ppm	
2-BUTOXYETHANOL	TLV-ACGIH			97	20			Skin
	OEL	EU		98				Skin
	OEL	IRL			20	50		Skin
	WEL	UK			25	50		Skin

**8.2 Exposure controls**

As the use of adequate technical equipment must always take priority over personal protection equipment, make sure that the workplace is well aired through effective local aspiration or bad air vent.

**HAND PROTECTION**

Protect hands with category I (ref. Directive 89/686/EEC and standard EN 374) work gloves, such as those in latex, PVC or equivalent. The following should be considered when choosing work glove material: degradation, breakage times and permeation. Work glove resistance to preparations should be checked before use, as it can be unpredictable. Gloves' limit depends on the duration of exposure.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (ref. Directive 89/686/CEE and standard EN 344). Wash body with soap and water after removing overalls.

**RESPIRATORY PROTECTION**

If the threshold value for one or more of the substances present in the preparation for daily exposure in the workplace or to a fraction established by the company's prevention and protection service is exceeded, wear a mask with an B or universal filter, the class (1, 2 or 3) of which must be chosen according to the limit concentration of use (ref. standard EN 141).

The use of breathing protection equipment, such as masks with organic vapour and dust/mist cartridges, is necessary in the absence of technical measures limiting worker exposure. The protection provided by masks is in any case limited.

If the substance in question is odourless or its olfactory threshold is higher than the relative exposure limit and in the event of an emergency, or when exposure levels are unknown or the concentration of oxygen in the workplace is less than 17% volume, wear self-contained, open-circuit compressed air breathing apparatus (ref. standard EN 137) or fresh air hose breathing apparatus for use with full face mask, half mask or mouthpiece (ref. standard EN 138).

**EYE PROTECTION**

Use of protective airtight goggles (ref. standard EN 166) recommended.

**9. Physical and chemical properties**

Colour	Transparent
Odour	Characteristic
Appearance	Milky liquid
Solubility	Mixable in water
Viscosity	Sat: 200 cps Luc: 20 cps
Vapour density	Not available
Evaporation Rate	Not available
Reactive Properties	Not available
Partition coefficient: n-octanol/water	Not available
pH	7,5-8,5
Boiling point	Not available
Flash point	100 °C
Explosive properties	Not available
Vapour pressure	Not available
Specific gravity	1,000 Kg/l
VOC (Directive 2004/42/EC) :	45,00 g/litre

**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.

Dipropyleneglycolmonomethyl ether may react with oxidizing agents. Heated to decomposition, it emits acrid and irritant fumes and vapours. Flammability point is 83 °C.

Diethylene glycol butyl ether may react with oxidizing agents. When heated to decomposition, it emits acrid and irritant fumes. It is hygroscopic.

2-Butoxyethanol may form explosive peroxides; it reacts with light metals, such as aluminium (ref. H.C.S.).

**11. Toxicological information**

Dipropylene glycol monomethyl ether: experimental toxicity data exclude it as a danger to health considering that the oral LD50 in the rat is 5660 mg/kg, skin/LD50 in the rat: 9500 mg/kg; slight eye irritation and skin in rabbits.

The ACGIH limit of exposure on an 8 hour work day is 606 mg/cu.m, excluding the possible effects by the cutaneous way.

Butyl diglycol: can be absorbed by inhalation, ingestion and skin contact; it is irritant to the skin and especially to the eyes; spleen damage may occur. Inhalation is unlikely to occur at room temperature due to the low vapour tension of the substance.

**12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

### 13. Disposal consideration

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### 14. Transport information

This substance is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

### 15. Regulatory information

Warning symbols: None

Hazard sentences (R): None

Caution recommendations (S): None

Safety data sheet available upon request for professional users.

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

VOC (Directive 2004/42/EC) :

Interior/exterior trim varnishes and woodstains, including opaque woodstain.

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

Limit value: 150 (2007) - 130 (2010) VOC of product : 45,00

### 16. Other information

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

**R20/21/22** HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.

**R36/38** IRRITATING TO EYES AND SKIN.

#### 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:

08/13