(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 1 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

## SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: Oropal Polyurethane Hardener

Product Code: 07R70400000MOV

#### 1.2 Relevant identified uses of the mixture and uses advised against.

Dyeing and coloring of wood and other substrates

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: Industrías Químicas Irurena, S.A.

Address: Ctra. de Tolosa, s/nº. Apdo. 30

 City:
 20730 Azpeitia

 Province:
 Gipuzkoa

 Telephone:
 943 15 70 99

 Fax:
 943 81 09 11

E-mail: irurena@irurenagroup.com Web: http://www.irurenagroup.com

1.4 Emergency telephone number: 915 620 420 (Inst.Toxicologia) (Available 24 hours)

## **SECTION 2: HAZARDS IDENTIFICATION.**

## 2.1 Classification of the mixture.

In accordance with Regulation (EU) No 1272/2008:

Flam. Liq. 3: Flammable liquid and vapour. STOT SE 3: May cause drowsiness or dizziness.

Skin Irrit. 2: Causes skin irritation.

Skin Sens. 1: May cause an allergic skin reaction.

## 2.2 Label elements.

### Labelling in accordance with Regulation (EU) No 1272/2008:

Pictograms:





# Signal Word:

# Warning

H statements:

H226 Flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H336 May cause drowsiness or dizziness.

## P statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment needed, see medical advice

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 2 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

P370+P378 In case of fire: Use extinguisher powder or CO2 to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

**EUH statements:** 

EUH204 Contains isocyanates. May produce an allergic reaction.

Contains: n-butyl acetate

Hexamethylene diisocyanate, oligomers

#### 2.3 Other hazards.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.**

#### 3.1 Substances.

Not Applicable.

#### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

			(*)Classification No 127	- Regulation (EC) 2/2008
Identifiers	Name	Concentrate	Classification	specific concentration limit
CAS No: 28182-81-2 EC No: 500-060-2	Hexamethylene diisocyanate, oligomers	1 - 50 %	Skin Sens. 1, H317	-
Index No: 607-025- 00-1 CAS No: 123-86-4 EC No: 204-658-1 Registration No: 01- 2119485493-29-XXXX	[1] n-butyl acetate	20 - 50 %	Flam. Liq. 3, H226 - STOT SE 3, H336	-
Index No: 601-022- 00-9 CAS No: 1330-20-7 EC No: 215-535-7 Registration No: 01- 2119488216-32-XXXX	[1] xylene (Mixture of isomers)	10 - 25 %	Acute Tox. 4 *, H312 - Acute Tox. 4 *, H332 - Flam. Liq. 3, H226 - Skin Irrit. 2, H315	-
Index No: 615-011- 00-1 CAS No: 822-06-0 EC No: 212-485-8 Registration No: 01- 2119457571-37-XXXX	hexamethylene-di-isocyanate	0.1 - 0.5 %	Acute Tox. 3 *, H331 - Eye Irrit. 2, H319 - Resp. Sens. 1, H334 - STOT SE 3, H335 - Skin Irrit. 2, H315 - Skin Sens. 1, H317	Resp. Sens. 1, H334: C ≥ 0,5 % Skin Sens. 1, H317: C ≥ 0,5 %

<sup>(\*)</sup> The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

### **SECTION 4: FIRST AID MEASURES.**

<sup>\*</sup> See Regulation (EC) No. 1272/2008, Annex VI, section 1.2.

<sup>[1]</sup> Substance with a Community workplace exposure limit (see section 8.1).

(in accordance with Regulation (EU) 2015/830)

# 07R70400000MOV-Oropal Polyurethane Hardener



 Version: 30
 Page 3 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

#### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

#### Inhalation.

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

#### Eve contact.

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.

#### Skin contact.

Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

#### Ingestion.

If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

#### 4.2 Most important symptoms and effects, both acute and delayed.

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

It may cause an allergic reaction, dermatitis, redness or inflammation of the skin.

## 4.3 Indication of any immediate medical attention and special treatment needed.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

## **SECTION 5: FIREFIGHTING MEASURES.**

Flammable product, the necessary prevention measures should be taken in order to avoid risks, In case of fire, the following measures are recommended:

#### 5.1 Extinguishing media.

#### Suitable extinguishing media:

Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.

#### **Unsuitable extinguishing media:**

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

### 5.2 Special hazards arising from the mixture.

# Special risks.

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

#### 5.3 Advice for firefighters.

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available.

### Fire protection equipment.

(in accordance with Regulation (EU) 2015/830)

# 07R70400000MOV-Oropal Polyurethane Hardener



 Version: 30
 Page 4 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES.**

#### 6.1 Personal precautions, protective equipment and emergency procedures.

Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Prevent the contamination of drains, surface or subterranean waters, and the ground.

#### 6.3 Methods and material for containment and cleaning up.

Pick up the spill with non-combustible absorbent materials (soil, sand, vermiculite, diatomite, etc.). Pour the product and the absorbent in an appropriate container. The contaminated area should be immediately cleaned with an appropriate decontaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.

#### 6.4 Reference to other sections.

For exposure control and individual protection measures, see section 8.

For later elimination of waste, follow the recommendations under section 13.

### **SECTION 7: HANDLING AND STORAGE.**

### 7.1 Precautions for safe handling.

The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards.

The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use antistatic footwear and clothing, and floors must be conductors.

Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited.

Follow legislation on occupational health and safety.

Keep the product in containers made of a material identical to the original.

# 7.2 Conditions for safe storage, including any incompatibilities.

Store according to local legislation. Observe indications on the label. Store the containers between 1 and 35° C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.

Classification and threshold amount of storage in accordance with Annex I to Directive 2012/18/EU (SEVESO III):

		Qualifying quantity (tonnes) for the application of	
Code	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5.000	50.000

#### 7.3 Specific end use(s).

To be used within industrial facilities only

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.**

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 5 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

## 8.1 Control parameters.

Work exposure limit for:

Name	CAS No.	Country	Limit value	ppm	mg/m³
		United	Eight hours	150	724
		Kingdom [1]	Short term	200	966
		United States	Eight hours	150	
n-butyl acetate	123-86-4	[2] (Cal/OSHA)	Short term	200	
11-butyl acetate	123-00-4	United States	Eight hours	150	
		[3] (NIOSH)	Short term	200	
		United States	Eight hours	150	710
		[4] (OSHA)	Short term		
		European	Eight hours	50 (skin)	221 (skin)
		United <b>Eig</b>	Short term	100 (skin)	442 (skin)
			Eight hours	50	220
			Short term	100	441
xylene (Mixture of isomers)	1330-20-7	United States	Eight hours	100	
xylene (Mixture of Isomers)	1330-20-7	[2] (Cal/OSHA) <b>Short term</b> 150 (C	150 (Ceiling) 300		
		United States	United States <b>Eight hours</b>	100	
		[3] (NIOSH) <b>Short term</b> 150 United States <b>Eight hours</b> 100	150	•	
			Eight hours	100	435
		[4] (OSHA)	Short term		_

<sup>[1]</sup> According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adobted by Health and Safety Executive.

Concentration levels DNEL/DMEL:

Name	DNEL/DMEL	Туре	Value
	DNEL (Workers)	Inhalation, Long-term, Systemic effects	480 (mg/m³)
	DNEL (General population)	Inhalation, Long-term, Systemic effects	102,34 (mg/m³)
	DNEL (Workers)	Inhalation, Acute, Systemic effects	960 (mg/m³)
	DNEL (General population)	Inhalation, Acute, Systemic effects	859,7 (mg/m³)
n-butyl acetate CAS No: 123-86-4	DNEL (Workers)	Inhalation, Long-term, Local effects	480 (mg/m³)
EC No: 204-658-1	DNEL (General population)	Inhalation, Long-term, Local effects	102,34 (mg/m³)
	DNEL (Workers)	Inhalation, Acute, Local effects	960 (mg/m³)
	DNEL (General population)	Inhalation, Acute, Local effects	859,7 (mg/m³)
	DNEL (General population)	Oral, Long-term, Systemic effects	3,4 (mg/kg bw/day)
	DNEL (General population)	Dermal, Long-term, Systemic effects	3,4 (mg/kg bw/day)
xylene (Mixture of isomers) CAS No: 1330-20-7 EC No: 215-535-7	DNEL (Workers)	Inhalation, Long-term, Systemic effects	77 (mg/m³)
hexamethylene-di-isocyanate CAS No: 822-06-0	DNEL (Workers)	Inhalation, Long-term, Local effects	0,035 (mg/m³)

<sup>[2]</sup> California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

<sup>[3]</sup> National Institute for Occupational Safety and Health. NIOSH Recommendations for occupational safety and health,

Compendium of Policy Documents and Statements, January, 1992, DHHS (NIOSH) Publication No. 92-100.
[4] Occupational Safety and Health Administration, United States Department of Labor. Permissible Exposure limits (PELs), California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

<sup>[5]</sup> According both Binding Occupational Esposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

The product does NOT contain substances with Biological Limit Values.

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 6 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

EC No: 212-485-8	DNEL	Inhalation, Long-term, Systemic effects	0,035
	(Workers)		(mg/m <sup>3</sup> )

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

Name	Details	Value
	aqua (freshwater)	0,18 (mg/l)
	aqua (marine water)	0,018 (mg/l)
	aqua (intermittent releases)	0,36 (mg/l)
n-butyl acetate	STP	35,6 (mg/l)
CAS No: 123-86-4	sediment (freshwater)	0,981 (mg/kg
EC No: 204-658-1		sediment dw)
	sediment (marine water)	0,0981
		(mg/kg
		sediment dw)

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

### 8.2 Exposure controls.

## Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration:	100 %					
Uses:	Dyeing and coloring of wood and other substrates					
<b>Breathing prote</b>	Breathing protection:					
If the recommende	ed technical measures are observed, no individual protection equipment is necessary.					
Hand protection						
PPE:	Work gloves.					
Characteristics:	«CE» marking, category I.					
CEN standards:	EN 374-1, En 374-2, EN 374-3, EN 420					
	Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible.					
Maintenance:	Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or					
	adhesives.					
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight.					
	Always use with clean, dry hands.					
Material:	PVC (polyvinyl chloride) Breakthrough time > 480 Material thickness 0,35					
(min.):						
<b>Eye protection:</b> PPE:	Face shield.					
Characteristics:	«CE» marking, category II. Face and eye protector against splashing liquid.					
Characteristics.	*CL# marking, category II. Face and eye protection against spiasining inquiti.					
CEN standards:	EN 165, EN 166, EN 167, EN 168					
	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should					
Maintenance:	be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move					
	smoothly.					
	Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm					
Observations:	vertically once attached to the frame.					
Skin protection:						
PPE:	Anti-static protective clothing.					
Characteristics:	«CE» marking, category II. Protective clothing should not be too tight or loose in					
	order not to obstruct the user's movements.					
CEN standards:	EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5					
Maintenance:	In order to guarantee uniform protection, follow the washing and maintenance instructions provided by					
. idiricci di icci	the manufacturer.					
	The protective clothing should offer a level of comfort in line with the level of protection provided in					
Observations:	terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level					
	of activity and the expected time of use.					

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



Version: 30 Page 7 of 12
Revision date: 27/01/2020 Print date: 27/01/2020

PPE: Anti-static safety footwear. Characteristics: «CE» marking, category II.

CEN standards: EN ISO 13287, EN ISO 20344, EN ISO 20346

Maintenance: The footwear should be checked regularly

The level of comfort during use and acceptability are factors that are assessed very differently depending

Observations: on the user. Therefore, it is advisable to try on different footwear models and, if possible, different

widths.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.**

#### 9.1 Information on basic physical and chemical properties.

Appearance: Liquid with characteristic odour

Colour: N.A./N.A. Odour: N.A./N.A.

Odour threshold: N.A./N.A.

pH:N.A./N.A.

Melting point: N.A./N.A. Boiling Point: N.A./N.A. Flash point: 29 °C

Evaporation rate: N.A./N.A.
Inflammability (solid, gas): N.A./N.A.
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit: N.A./N.A.
Vapour pressure: N.A./N.A.
Vapour density:N.A./N.A.
Relative density:.990
Solubility:N.A./N.A.

Solubility: N.A./N.A. Liposolubility: N.A./N.A. Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A. Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: N.A./N.A. Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

## 9.2 Other information.

Pour point: N.A./N.A. Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

### **SECTION 10: STABILITY AND REACTIVITY.**

### 10.1 Reactivity.

If the storage conditions are satisfied, does not produce dangerous reactions.

## 10.2 Chemical stability.

Unstable in contact with:

- Acids.
- Bases
- Oxidizing agents.

#### 10.3 Possibility of hazardous reactions.

Flammable liquid and vapour.

In certain conditions this may cause a polymerization reaction.

#### 10.4 Conditions to avoid.

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



Version: 30 Page 8 of 12
Revision date: 27/01/2020 Print date: 27/01/2020

Avoid the following conditions:

- Heating.
- High temperature.
- Static discharge.
- Contact with incompatible materials.
- Avoid temperatures near or above the flash point. Do not heat closed containers. Avoid direct sunlight and heat, as these may cause a risk of fire.

### 10.5 Incompatible materials.

Avoid the following materials:

- Acids.
- Bases.
- Oxidizing agents.
- Explosives materials.
- Toxic materials.
- Oxidizing materials.

### 10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated the following products:

- COx (carbon oxides).
- Organic compounds.
- Aromatics compounds.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

#### **SECTION 11: TOXICOLOGICAL INFORMATION.**

IRRITANT PREPARATION. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

IRRITANT PREPARATION. Its repeated or prolonged contact with the skin or mucous membranes can cause irritant symptoms such as reddening of the skin, blisters, or dermatitis. Some of the symptoms may not be immediate. They can cause allergic reactions on the skin.

## 11.1 Information on toxicological effects.

There are no tested data available on the product.

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Exposure to concentrations of solvent fumes above the work exposure limit can have negative effects (for example, irritation of the mucous membranes and respiratory system, adverse effects on the kidneys, liver, and the central nervous system). Among the symptoms are headaches, vertigo, fatique, muscular weakness, drowsiness, and in extreme cases, unconsciousness.

Based on the properties of isocyanates and taking into account existing technical data on similar products, it appears that this product may cause irritation and / or acute awareness of the respiratory system, leading to an asthmatic condition, a wheezing and chest pressure. Therefore, sensitized individuals may show asthmatic symptoms when exposed to atmospheres containing concentrations below the level of exposure. Repeated exposure can lead to chronic respiratory diseases.

a) acute toxicity;

Not conclusive data for classification.

Acute Toxicity Estimate (ATE):

Mixtures

ATE (Dermal) = 4.757 mg/kg

b) skin corrosion/irritation;

Product classified:

Skin irritant, Category 2: Causes skin irritation.

c) serious eye damage/irritation;

Based on available data, the classification criteria are not met.

d) respiratory or skin sensitisation;

Product classified:

Skin sensitiser, Category 1: May cause an allergic skin reaction.

e) germ cell mutagenicity;

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 9 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Product classified:

Specific target organ toxicity following a single exposure, Category 3:

i) STOT-repeated exposure;

Not conclusive data for classification.

i) aspiration hazard;

Not conclusive data for classification.

### **SECTION 12: ECOLOGICAL INFORMATION.**

#### 12.1 Toxicity.

There is no information available on the biodegradability of the substances present.

#### 12.2 Persistence and degradability.

There is no information available on the degradability of the substances present.

No information is available regarding the degradability of the substances present. No information is available about persistence and degradability of the product.

## 12.3 Bioaccumulative potential.

Information about the bioaccumulation of the substances present.

Namo		Bioaccumulation			
	Name	Log Pow	BCF	NOECs	Level
n-butyl acetate		1 70	_		Vonclow
N. CAS: 123-86-4	EC No: 204-658-1	1,78	-	-	Very low

### 12.4 Mobility in soil.

No information is available about the mobility in soil.

The product must not be allowed to go into sewers or waterways.

Prevent penetration into the ground.

## 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

### **SECTION 13 DISPOSAL CONSIDERATIONS.**

# 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 10 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

### **SECTION 14: TRANSPORT INFORMATION.**

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA

for air transport.

Land: Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

<u>Sea</u>: Transport by ship: IMDG. Transport documentation: Bill of lading <u>Air</u>: Transport by plane: ICAO/IATA. Transport document: Airway bill.

**14.1 UN number.** UN No: UN1263

#### 14.2 UN proper shipping name.

Description:

ADR: UN 1263, PAINT, 3, PG III, (D/E) IMDG: UN 1263, PAINT, 3, PG III

ICAO/IATA: UN 1263, PAINT, 3, PG III

#### 14.3 Transport hazard class(es).

Class(es): 3

### 14.4 Packing group.

Packing group: III

#### 14.5 Environmental hazards.

Marine pollutant: No

## 14.6 Special precautions for user.

Labels: 3



Hazard number: 30 ADR LQ: 5 L IMDG LQ: 5 L ICAO LQ: 10 L

Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E Proceed in accordance with point 6.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

The product is not transported in bulk.

# **SECTION 15: REGULATORY INFORMATION.**

#### 15.1 Safety, health and environmental regulations/legislation specific for the mixture.

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

VOC content (p/p): 57,25 % VOC content: **566,775** g/l

USA:

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



 Version: 30
 Page 11 of 12

 Revision date: 27/01/2020
 Print date: 27/01/2020

VVOC content (p/p): 0 % VVOC content: 0 g/l VOC content (p/p): 57.25 % VOC content: 566.775 g/l SVOC content (p/p): .228 % SVOC content: 2.257 g/l

VVOC: Very volatile organic compounds. VOC: Volatile organic compounds. SVOC: Semi volatile organic compounds.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): P5c

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

### 15.2 Chemical safety assessment.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **SECTION 16: OTHER INFORMATION.**

Complete text of the H phrases that appear in section 3:

H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

#### Classification codes:

Acute Tox. 3: Acute toxicity (Inhalation), Category 3
Acute Tox. 4: Acute toxicity (Dermal), Category 4
Acute Tox. 4: Acute toxicity (Inhalation), Category 4

Eye Irrit. 2 : Eye irritation, Category 2 Flam. Liq. 3 : Flammable liquid, Category 3 Resp. Sens. 1 : Respiratory sensitiser, Category 1

STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

Skin Irrit. 2 : Skin irritant, Category 2 Skin Sens. 1 : Skin sensitiser, Category 1

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Information on the TSCA Inventory (Toxic Substances Control Act) USA:

CAS No	Name	State
28182-81-2	Hexamethylene diisocyanate, oligomers	Registered
123-86-4	n-butyl acetate	Registered
1330-20-7	xylene (Mixture of isomers)	Registered
822-06-0	hexamethylene-di-isocyanate	Registered

(in accordance with Regulation (EU) 2015/830)

# **07R70400000MOV-Oropal Polyurethane Hardener**



Version: 30 Page 12 of 12 Revision date: 27/01/2020 Print date: 27/01/2020

Abbreviations and acronyms used:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

BCF: Bioconcentration factor.

CEN: European Committee for Standardization.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be

considered a tolerable minimum.

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not

anticipated.

EC50: Half maximal effective concentration.
PPE: Personal protection equipment.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

Log Pow: Logarithm of the partition octanol-water. NOEC: No observed effect concentration.

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are

not expected in the environmental compartment.

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.

Key literature references and sources for data:

http://eur-lex.europa.eu/homepage.html

http://echa.europa.eu/

Regulation (EU) 2015/830. Regulation (EC) No 1907/2006. Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.