

**R1544**  
**MA - 6244**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

- 1.1 Product identifier:** R1544  
MA - 6244
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
Relevant uses: Hot Melt Adhesive. For professional use only.  
Uses advised against: All uses not specified in this section or in section 7.3
- 1.3 Details of the supplier of the safety data sheet:** Laboratorios Rayt, SA  
Carrer Garriga 188-200  
08912 Badalona - Barcelona - España  
Phone.: 934607820 -  
Fax: 933836356  
info@rayt.com  
www.rayt.com
- 1.4 Emergency telephone number:** +34 93 460 71 52 (8:00-13:00 ; 15:00-18:00)

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 Classification of the substance or mixture:**  
**Directive 67/548/EC and Directive 1999/45/EC:**  
In accordance with Directive 67/548/EC and Directive 1999/45/EC, the product is not classified as dangerous.
- 2.2 Label elements:**  
**Directive 67/548/EC and Directive 1999/45/EC:**  
In accordance with the legislation, the elements on the label are as follows:  
Not classified as dangerous. Safety data sheet available to professional users that request it.
- 2.3 Other hazards:**  
Hot material may cause burns. Hot application hazards vary considerably to room temperature application hazards. The risk management measures of both situations are outlined in the material safety data sheet.

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

**Chemical description:** Mixture composed of waxes, resins and synthetic polymer

**Components:**

In accordance with Annex II of Regulation (EC) n°1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 84-61-7 EC: 201-545-9 Index: Non-applicable REACH:01-2119978223-34-XXXX	<b>Dicyclohexyl phthalate</b> Self-classified Directive 67/548/EC Xi: R36/37/38 Regulation 1272/2008 Eye Irrit. 2: H319; Skin Irrit. 2: H315; STOT SE 3: H335 - Warning	1 - <3,5 %

To obtain more information on the risk of the substances consult sections 8, 11, 12 and 16.

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the MSDS of this product.

**By inhalation:**

Vapors from heated material may cause irritation of the respiratory system. Symptoms may include cough, headache or throat pain

This product is not classified as dangerous through inhalation, however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

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#### SECTION 4: FIRST AID MEASURES (continue)

This product is not classified as dangerous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or shower the person affected if necessary thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

If the product is hot, cool immediately with cold water, do not try removing it and seek medical advice.

**By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the MSDS of the product.

Hot: Vapors can cause eye irritation. Symptoms may include redness, swelling, pain and blurred vision. In case of burns, flush eyes with large amounts of water, DO NOT ATTEMPT TO REMOVE solidified material. Seek medical assistance.

**By consumption:**

Do not induce vomiting, but if it does happen keep the head up to avoid inhalation. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

#### SECTION 5: FIREFIGHTING MEASURES

**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use tap water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive subproducts are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**6.1 Personal precautions, protective equipment and emergency procedures:**

Hot application: increase ventilation, eliminate all sources of ignition and allow the product to cool.

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal See sections 8 and 13.

**6.2 Environmental precautions:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container.

**6.3 Methods and material for containment and cleaning up:**

If molten, allow to solidify

It is recommended:

Sweep up and shovel product or other means and place in container for reuse (preferred) or disposal

**6.4 Reference to other sections:**

See sections 8 and 13.

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**SECTION 7: HANDLING AND STORAGE**
**7.1 Precautions for safe handling:**

## A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and destroy using safe methods (section 6).

## B.- Technical recommendations for the prevention of fires and explosions

Product is non-flammable under normal conditions of storage, manipulation and use. It is recommended to transfer at slow speeds to avoid the generation of electrostatic charges that can affect flammable products. Consult section 10 for information on conditions and materials that should be avoided.

## C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

## D.- Technical recommendations to prevent environmental risks

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container.

**7.2 Conditions for safe storage, including any incompatibilities:**

## A.- Technical measures for storage

Minimum Temp.: 5 °C  
 Maximum Temp.: 30 °C  
 Maximum time: 12 Months

## B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food

**7.3 Specific end use(s):**

Follow the recommended application temperature in the provided technical documentation.

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the work environment

Paraffin wax, fume: WEL (8h) = 2 mg/m<sup>3</sup>; WEL (15 min) = 6 mg/m<sup>3</sup>

**DNEL (Workers):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dicyclohexyl phthalate CAS: 84-61-7 EC: 201-545-9	Oral	Non-applicable	Non-applicable	Non-applicable	Non-applicable
	Dermal	0,5 mg/kg	Non-applicable	0,5 mg/kg	Non-applicable
	Inhalation	35,2 mg/m <sup>3</sup>	Non-applicable	35,2 mg/m <sup>3</sup>	Non-applicable

**DNEL (Population):**

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
Dicyclohexyl phthalate CAS: 84-61-7 EC: 201-545-9	Oral	Non-applicable	Non-applicable	0,25 mg/kg	Non-applicable
	Dermal	0,25 mg/kg	Non-applicable	0,25 mg/kg	Non-applicable
	Inhalation	0,87 mg/m <sup>3</sup>	Non-applicable	0,87 mg/m <sup>3</sup>	Non-applicable

**PNEC:**

Identification					
Dicyclohexyl phthalate CAS: 84-61-7 EC: 201-545-9	STP	10 mg/L	Fresh water	0,00362 mg/L	
	Soil	0,21 mg/kg	Marine water	0,000362 mg/L	
	Intermittent	0,0362 mg/L	Sediment (Fresh water)	1,06 mg/kg	
	Oral	133000 g/kg	Sediment (Marine water)	0,106 mg/kg	

**8.2 Exposure controls:**

A.- General security and hygiene measures in the work place

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continue)**

A ventilation system is recommended for hot application.



As a preventative measure it is recommended to use basic Personal Protection Equipment, with the corresponding ""CE marking"" in accordance with Directive 89/686/EC. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

**B.- Respiratory protection**



The use of protection equipment will be necessary if a mist forms or if the professional exposure limits are exceeded.

**C.- Specific protection for the hands**



LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory hand protection	Chemical protective gloves		EN 374-1:2003 EN 374-3:2003/AC:2006 EN 420:2003+A1:2009	Replace the gloves at any sign of deterioration.

Hot: gloves to prevent burns must be resistant to the recommended application temperatures



**D.- Ocular and facial protection**

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
 Mandatory face protection	Panoramic glasses against liquid splash		EN 166:2001 EN 172:1994/A1:2000 EN 172:1994/A2:2001 EN 165:2005	Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing.

**E.- Bodily protection**

LRP Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing		EN 340:2003	For professional use only.
	Anti-slip work shoes		EN ISO 20347:2004/A1:2007 EN ISO 20344:2011	None

**F.- Additional emergency measures**

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2002	 Eyewash stations	DIN 12 899 ISO 3864-1:2002

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatil organic compounds:**

With regard to Directive 1999/13/EC, this product has the following characteristics:

V.O.C. (Supply):	0 % weight
V.O.C. density at 25 °C:	0 kg/m <sup>3</sup> (0 g/L)
Average carbon number:	Non-applicable
Average molecular weight:	Non-applicable

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continue)**
**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

Physical state at 20 °C: Solid  
 Appearance: Pills  
 Color: Amber  
 Odor: Characteristic

**Volatility:**

Boiling point at atmospheric pressure: Non-applicable \*  
 Vapour pressure at 25 °C: Non-applicable \*  
 Vapour pressure at 50 °C: Non-applicable \*  
 Evaporation rate at 25 °C: Non-applicable \*

**Product description:**

Density at 25 °C: 990 kg/m<sup>3</sup>  
 Relative density at 25 °C: 0,99  
 Dynamic viscosity at 25 °C: Non-applicable \*  
 Kinematic viscosity at 25 °C: Non-applicable \*  
 Kinematic viscosity at 40 °C: Non-applicable \*  
 Concentration: Non-applicable \*  
 pH: Non-applicable \*  
 Vapour density at 25 °C: Non-applicable \*  
 Partition coefficient n-octanol/water 25 °C: Non-applicable \*  
 Solubility in water at 25 °C: Non-applicable \*  
 Solubility property: Non-applicable \*  
 Decomposition temperature: Non-applicable \*

**Flammability:**

Flash Point: Non Flammable (>60 °C)  
 Autoignition temperature: Non-applicable \*  
 Lower flammability limit: Non-applicable \*  
 Upper flammability limit: Non-applicable \*

**9.2 Other information:**

Surface tension at 25 °C: Non-applicable \*  
 Refraction index: Non-applicable \*

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**
**10.1 Reactivity:**

No hazardous reactions are expected if the following technical instructions storage of chemicals. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the conditions no hazardous reactions are expected to produce a pressure or excessive temperatures.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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## SECTION 10: STABILITY AND REACTIVITY (continue)

Hot application: avoid temperatures and storage areas exceeding the recommended temperatures (see technical documentation).  
Avoid product contact with water during use, as it may cause serious problems.

### 10.5 Incompatible materials:

Acids	Water	Combustive materials	Combustible materials	Others
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

#### Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

#### A.- Ingestion:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for consumption. For more information see section 3.

#### B- Inhalation:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for inhalation. For more information see section 3.

#### C- Contact with the skin and the eyes:

Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for skin contact. For more information see section 3.

#### D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.

#### E- Sensitizing effects:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitizing effects. For more information see section 3.

#### F- Specific target organ toxicity (STOT)-time exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### G- Specific target organ toxicity (STOT)-repeated exposure:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

#### Other information:

Non-applicable

#### Specific toxicology information on the substances:

Not available

## SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the ecotoxicological properties of the mixture itself is not available

### 12.1 Toxicity:

Not available

### 12.2 Persistence and degradability:

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## SECTION 12: ECOLOGICAL INFORMATION (continue)

Not available

### 12.3 Bioaccumulative potential:

Not available

### 12.4 Mobility in soil:

Not available

### 12.5 Results of PBT and vPvB assessment:

Non-applicable

### 12.6 Other adverse effects:

Not described

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

Code	Description	Waste class (Directive 2008/98/EC)
	It is not possible to assign a specific code, as it depends on the intended use by the user	Non dangerous

#### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2000/532/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### Regulations related to waste management:

In accordance with Annex II of Regulation (EC) n°1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2000/532/EC: Commission Decision of 3 May 2000

## SECTION 14: TRANSPORT INFORMATION

This product is not regulated for transport (ADR/RID,IMDG,IATA)

## SECTION 15: REGULATORY INFORMATION

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

Candidate substances for authorisation under the Regulation (EC) 1907/2006 (REACH): Non-applicable

Regulation (EC) 1005/2009, about substances that deplete the ozone layer: Non-applicable

Active substances for which a decision of non-inclusion onto Annex I (Regulation (EU) No 528/2012): Non-applicable

Regulation (EC) 689/2008, in relation to the import and export of hazardous chemical products: Non-applicable

#### Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII, REACH):

Non-applicable

#### Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as data used in a risk evaluation of the local circumstances in order to establish the necessary risk prevention measures for the manipulation, use, storage and disposal of this product.

#### Other legislation:

Non-applicable

### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.

## SECTION 16: OTHER INFORMATION

### Legislation related to safety data sheets:

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## SECTION 16: OTHER INFORMATION (continue)

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) N° 1907/2006 (Regulation (EC) N° 453/2010)

**Modifications related to the previous security card which concerns the ways of managing risks. :**

Content of the 3rd section presenting modifications:

- Dicyclohexyl phthalate (84-61-7): REACH Number

**Text of R-phrases considered in section 3:**

**Directive 67/548/EC and Directive 1999/45/EC:**

R36/37/38: Irritating to eyes, respiratory system and skin

**CLP Regulation (EC) n° 1272/2008:**

Eye Irrit. 2: H319 - Causes serious eye irritation

Skin Irrit. 2: H315 - Causes skin irritation

STOT SE 3: H335 - May cause respiratory irritation

**Advice related to training:**

Minimal training is recommended to prevent industrial risks for staff using this product, in order to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

<http://esis.jrc.ec.europa.eu>

<http://echa.europa.eu>

<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

- ADR: European agreement concerning the international carriage of dangerous goods by road
- IMDG: International maritime dangerous goods code
- IATA: International Air Transport Association
- ICAO: International Civil Aviation Organisation
- COD: Chemical Oxygen Demand
- BOD5: 5-day biochemical oxygen demand
- BCF: Bioconcentration factor
- LD50: Lethal Dose 50
- CL50: Lethal Concentration 50
- EC50: Effective concentration 50
- Log-POW: Octanol–water partition coefficient
- Koc: Partition coefficient of organic carbon

The information contained in this security data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this security data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -