

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

PRODUCT : BORONAL 75%  
Chemical name : 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal  
CAS : 3155-71-3  
EC Number : 221-597-6  
Registration number (REACH) : --/--  
Index No.:

**1.2 Relevant identified uses of the substance or mixture**

Industrial uses. Formulation [mixing] of preparations.  
Uses advised against: Other uses than those recommended.  
{?/TIPOREG}  
{?/EEXP}

**1.3 Details of the supplier of the safety data sheet**

Lluch Essence, SL  
C/ Lo Gaiter de Llobregat 160, 08820 El Prat de Llobregat, Barcelona (Spain - Spain)  
Phone Number: +34 93 379 38 49; Fax: +34 93 478 27 54.

**1.4 Emergency telephone number**

Tel. +34 933 793 849 (8:00 - 17:00 GMT/UTC +1)  
Tel. +1 760 476 3961 Access Code: 335550 (available 24/7 - Verisk 3E)  
More emergency telephones by region:  
<http://www.lluche.com/Emergencytelephones.pdf>.

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008**

Sensitisation — Skin, Hazard Category 1; H317  
Long-term (chronic) aquatic hazard, category chronic 2; H411.

**2.2 Label elements**

EC Number: 221-597-6  
2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal



Signal word: Warning

Hazard Statements:

H317: May cause an allergic skin reaction.  
H411: Toxic to aquatic life with long lasting effects.

Precautionary Statements:

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280: Wear protective gloves.  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P501: Dispose of contents/container to an approved waste disposal plant.

**2.3 Other hazards**

Not available.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Concentration range of the constituent (% weight/weight)	EC number / Registration number	CAS	Chemical name
≥50% and ≤100	221-597-6	3155-71-3	2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

- Consumption:** If swallowed, rinse mouth with water. Seek medical advice immediately and show this container or label. Keep the person at rest. Do NOT induce vomiting.
- Eye contact:** Contact lenses should be removed. Hold eyelids open and flush with copious amounts of clean, fresh water and seek medical advice.
- Inhalation:** Remove person to fresh air and keep at rest.
- Skin contact:** Remove contaminated clothing. Wash skin with mild soap and water, rinse abundantly. If symptoms persist, obtain medical attention.

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

May produce an allergic reaction (rash, urticaria).  
Read label before use. No additional information available.

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

Not available.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

Carbon dioxide, dry chemical powder or appropriate foam.  
For safety reasons do not use full water jet.

##### 5.2 Special hazards arising from the substance or mixture

Not applicable.

##### 5.3 Advice for firefighters

In case of fire in the surrounding area, follow the recommendations below:  
1-Closed containers may build up pressure at elevated temperatures.  
2-Avoid inhalation of fumes or vapours. Use appropriate respiratory protection.  
3-Prevent run-off from fire fighting to enter drains or water courses.

#### SECTION 6: Accidental release measures

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

Wear appropriate gloves to prevent skin exposure.  
Avoid breathing vapours. Use a suitable respiratory apparatus if necessary. Avoid contact with eyes and skin.  
Maintain adequate ventilation in the working area after spilling.

##### 6.2 Environmental precautions

Avoid contaminating the environment via the sewers or water sources.

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

Cover with an inert, inorganic, non-combustible absorbent material (e.g. dry-lime, sand, soda ash).  
Ventilate area and wash spill site after material pickup is complete.  
Dispose of in accordance with current laws and regulations.

##### 6.4 Reference to other sections

See also sections 8 and 13.

#### SECTION 7: Handling and storage

## SAFETY DATA SHEET

### BORONAL 75%

(according to Regulation (EU) No. 1907/2006)

Revision date: 26/11/2020 | Date of issue: 27-01-2021 | Version: 13



#### 7.1 Precautions for safe handling

Keep away from food, drink and animal feedingstuffs. Do not smoke.

Avoid contact with skin and eyes.

Handle in accordance with good industrial hygiene and safety practice.

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep the product in its original container well sealed, in a dry and ventilated area, away from potential sources of ignition and protected from light. Store in accordance with local/national regulations and follow the warnings on the label.

Keep away from incompatible substances (see section 10).

#### 7.3 Specific end use(s)

Not available.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Declaration of substances is not required.

#### 8.2 Exposure controls

Personal protection equipment: Appropriate personal protective equipment shall be worn in accordance with Regulation (EU) 2016/425.

Engineering Controls-Ventilation: The areas where the product is handled and stored should be adequately ventilated.

Respiratory Protection: Use personal breathing apparatus whenever deemed necessary.

Skin Protection: Avoid contact with skin. Compatible chemical-resistant gloves are recommended. Rinse and remove gloves immediately after use. Wash hands with soap and water thoroughly after handling.

Eye/Face protection: Chemical safety goggles are recommended. Wash contaminated goggles before reuse.

### SECTION 9: Physical and chemical properties

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

Appearance:	LIQUID
Colour:	YELLOW
Odour:	FLORAL
Odour threshold:	Not determined
pH value:	Not determined
Evaporation rate:	Not determined
Melting point:	Not determined
Boiling point:	Not determined
Flash point:	> 100 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Density:	0.939 - 0.949 g/cm <sup>3</sup> (20 °C)
Water solubility:	Not determined
Partition coefficient: n-octanol/water:	Not determined
Viscosity:	Not determined
Kinematic viscosity:	Not determined
Oxidising properties:	Not available.
Explosive properties:	Not available.
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined

#### 9.2 Other information

Additional information: Not applicable.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Not available.

**10.2 Chemical stability**

Stable under normal operating conditions.

**10.3 Possibility of hazardous reactions**

Hazardous Polymerization: It does not undergo any dangerous reactions under normal conditions.

**10.4 Conditions to avoid**

Handle in accordance with good industrial hygiene and safety practice.

**10.5 Incompatible materials**

Oxidizing mineral acids, strong reducing agents, strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon monoxide and other unidentified organic compounds may be formed upon combustion.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Acute oral toxicity (LD50):	4400 mg/kg
Acute dermal toxicity (LD50):	Non toxic
Acute Inhalation toxicity (LC50 Gas):	Non toxic
Acute Inhalation toxicity (LC50 Dusts and Mists):	Non toxic
Acute Inhalation toxicity (LC50 Vapours):	Non toxic

See also sections 2 and 3.

**SECTION 12: Ecological information****12.1 Toxicity**

Acute aquatic toxicity: Not determined

Chronic aquatic toxicity: Not determined

See also sections 2 and 3.

**12.2 Biodegradation:**

Not determined

**12.3 Bioaccumulative potential:**

Not determined

**12.4 Mobility in soil:**

Not available.

**12.5 Results of PBT and vPvB assessment:**

Not determined

**12.6 Other adverse effects:**

Not available.

Do not allow the material to enter streams, sewers or other waterways.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Container disposal: Containers must be disposed of as hazardous waste. Do not reuse empty containers. Dilute the remaining material and neutralise. Empty residue into a suitable disposal site.

Disposal conditions: Dispose of in accordance with all state and local environmental regulations. This material and its container must be disposed of in a safe way.

**SECTION 14: Transport information****International Carriage of Dangerous Goods by Road (ADR)**

**SAFETY DATA SHEET****BORONAL 75%**

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UN No.: UN3082  
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal)  
Packing Group: III  
Class: 9  
Tunnel restriction code: (-)  
Label:



9

**Sea Transport (IMDG)**

UN No.: UN3082  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal)  
Packing Group: III  
Class: 9  
Subsidiary hazard: -  
Marine Pollutant: Yes  
Label:

**Air Transport (ICAO/IATA)**

UN No.: UN3082  
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. ( 2-methyl-4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-2-butenal)  
Packing Group: III  
Class: 9  
Subsidiary hazard: -  
Label:

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Substances are either included in EINECS, ELINCS, NLP inventories or exempted.

**15.2 Chemical safety assessment**

Not available.

**SECTION 16: Other information**

This material should only be used for industrial purposes.

Key literature references and sources for data:

1. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
2. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning 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.
3. Occupational Exposure Limits by the INSHT (Spanish National Institute of Safety and Hygiene at Work).

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evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment and must determine suitability of this information for his application.

Reason for Change: No reason (reprint).