

**ROTAL ADHESIVES & CHEMICALS LTD.**

21 Atir Yeda St., P.O.Box 2292 Kfar-Saba 4464101, Israel.
Telephone: 972-9-7667990 Fax: 972-9-7667991
rotal@rotal.com www.rotal.com ISO 9001:2015

**Safety Data Sheet
Green Line-8000**

EC regulation 1907/2006 Revision date: June 2018

1 Product Identification**1.1 Product identifiers****Trade name**

Green Line-8000

Ecological PCBs Cleaner

1.2 Relevant identifier uses of the substance or mixture and uses advised against**Intended use**

PCBs cleaner

1.3 Details of the supplier of the safety data sheet

Rotal Adhesives & Chemicals Ltd.

21 Atir Yeda Str. P.O.Box 2292 Kfar-Saba 44641, ISRAEL

Phone #: + 972-9-7667990

Fax # : + 972-9-7667991

1.4 Emergency Telephone number

+ 972-4-7771900

2 Hazards Identification**2.1 Classification of the mixture according to regulation 1272/2008**

Acute toxicity (oral)	Category 4	H302
Skin irritation	Category 2	H315
Eye irritation	Category 2	H319
Skin sensitisation	Category 1	H317

2.2 Label elements**Hazard pictograms**

GHS07

Signal words

Danger

Hazard statements

H302 – Harmful if swallowed

H315 – Causes skin irritation.

H319 – Causes serious eye irritation.

H317 – May cause an allergic skin reaction.

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Full list of P statements, see section 16.

2.3 Other hazards

None

3 Composition / information on ingredients

Declaration of the ingredients according to regulation (EC) 1272/2008:

<u>Ingredient Name</u>	<u>CAS No.</u>	<u>% by Weight</u>	<u>Classification</u>
Butoxyethanol	111-76-2	40 – 80	Acute tox. 4, H302 Acute tox. 4, H312 Acute tox. 4, H332 Skin irrit. 2, H315 Eye irrit. 2, H319
Limonene	5989-27-5	< 30	Flam. Liq. 3, H226 Skin irrit. 2, H315 Skin sens. 1, H317 Aquatic acute 1, H410 Aquatic chronic 1, H412

The rest of the components, up to 100%, are not classified as hazardous according to regulation (EC) 1272/2008.

4 First aid measures**4.1 Description of first aid measures****In case of inhalation:**

Remove person to fresh air and keep comfortable for breathing.

In case of eye contact:

Rinse cautiously with water for several minutes.

Get medical attention if you feel unwell.

In case of skin contact:

Take off all contaminated clothing and rinse skin with plenty water.

If skin irritation or rash occurs, get medical attention..

After ingestion:

Do not induce vomiting! Rinse mouth with water and call a doctor if you feel unwell.

4.2 Most important symptoms/effects, both acute and delayed

Ingestion of large quantities may cause dizziness or drowsiness.

May cause allergic skin reaction.

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4.3 Indication of any immediate medical attention and special treatment needed

None.

In all cases seek prompt medical advice at Israel Poison Information/ Rambham Hospital. Tel-972-4-7771900

5 Firefighting measures**5.1 Extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the mixture

Carbon oxides, sodium oxides.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

6 Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin and eyes.

6.2 Environmental precautions

No specific precautions required.

6.3 Methods and material for containment and cleaning up

Wash away with water.

6.4 Reference to other sections

Dispose of contaminated material as waste according to section 13.

7 Handling and storage**7.1 Precautions for safe handling**

Use as instructed on sticker and/or the technical data sheet.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool well-ventilated place.

Keep out of the reach of children

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 Exposure controls / personal protection

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NOT FOR PRODUCT SPECIFICATIONS THE TECHNICAL DATA CONTAINED HEREIN ARE INTENDED AS REFERENCE ONLY. PLEASE CONTACT ROTAL ADHESIVES & CHEMICALS LTD FOR ASSISTANCE AND RECOMMENDATIONS ON SPECIFICATIONS FOR THIS PRODUCT.

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No components with workplace control parameters.

8.1 Exposure controls**Appropriate engineering controls:**

General industrial hygiene practice.

Personal protective equipment**Respiratory protection**

Use only in well-ventilated areas.

Hand protection

Not required. Protective gloves may be used as precautions.

Eye protection

Protective goggles may be used as precaution.

Skin protection

Not required.

Environmental exposure control:

None.

9 Physical and chemical properties**9.1 Exposure controls**

Appearance:	Transparent light-yellow liquid	
Odour:	Orange's odour	
Odour threshold:		Not applicable / No available data
pH:	5 – 7	
Melting point:		Not applicable / No available data
Initial boiling point:	95°C	At 743 mm/Hg
Flash point:	> 60°C	
Evaporation rate:		Not applicable / No available data
Flammability (solid, gas):		Not applicable / No available data
Explosive limits:		Not applicable / No available data
Vapour pressure:		Not applicable / No available data
Vapour density:		Not applicable / No available data
Relative density:	0.8 – 1.0 g/cm ³	At 20°C
Solubility:	> 1 g/L	In water, at 20°C
Partition coefficient:		Not applicable / No available data
Auto-ignition temperature:		Not applicable / No available data
Decomposition temperature:		Not applicable / No available data
Viscosity:		Not applicable / No available data

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Explosive properties:

Not applicable / No available data

Oxidising properties:

Not applicable / No available data

9.2 Other information

N/A

10 Stability and reactivity**10.1 Reactivity**

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

None.

In case of fire- see section 5.

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

The preparation is classified based on the conventional method outlined in directive 1272/2008/EC.

Relevant available information for the substances listed under Section 3 is provided in the following.

Acute toxicity

Acute toxicity estimates of the product: 1,000 – 3,000 mg/kg

Data on the relevant ingredients:

Butoxyethanol: Acute oral toxicity, LD50=1,200 mg/kg

Skin irritation

Irritating to skin.

Eye irritation

Irritating to eyes.

Sensitisation

May cause skin sensitisation.

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Germ cell mutagenicity

None of the components are considered germ cell mutagens.

Carcinogenicity

None of the components are considered carcinogenic.

Reproductive Toxicity

None of the components are considered to be toxic to the reproductive system.

12 Ecological information**General ecological toxicity**

The preparation is classified based on the conventional method outlined in directive 1272/2008/EC.

Relevant available information for the substances listed under Section 3 is provided in the following.

12.1 Toxicity

Limonene aquatic toxicity:

<u>Value Type</u>	<u>Value</u>	<u>Acute Toxicity Study</u>	<u>Exposure Time</u>	<u>Species</u>	<u>Method</u>
LC50	0.72 mg/L	Fish	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity)
LC50	0.41 mg/L	Fish	8 d	Pimephales promelas	OECD Guideline 212 (Fish, Short-term Toxicity)
EC50	0.31 mg/L	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute)
EC50	0.19 mg/L	Daphnia	21 d	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)
EC50	0.21 mg/L	Algae	72 h	Pseudokirchneriella subcapitata	OECD 201 (Algae Growth Inhibition Test)

*Data was taken from the ECHA website- <https://echa.europa.eu/> on 30.4.2018, 16:00.

12.2 Persistence and degradability

The mixture is considered to be rapidly biodegradable.

12.3 Results of PBT and vPvB assessment

None of the components are considered PBT or vPvB.

12.4 Mobility in soil

Toxicological data are not available.

12.5 Other adverse effects

Toxicological data are not available.

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13 Disposal considerations**13.1 Waste treatment methods****Product disposal**

The product is non-hazardous and rapidly biodegradable.

Dispose of according to local regulations.

Disposal of uncleaned packages

After use, tubes, cartons and bottles can be recycled.

Disposal must be made according to local regulations.

14 Transport information**14.1 UN number**

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.2 UN proper shipping name

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.3 Transport hazard class

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.4 Packaging group

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.5 Environmental hazards

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.6 Special precautions for users

Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

No data available.

15 Regulatory information

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

No data available.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

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16. Other information**Full list of Hazard statements**

- H302 – Harmful if swallowed.
- H315 – Causes skin irritation.
- H318 – Causes serious eye damage.
- H317 – May cause an allergic skin reaction

Full list of Precautionary statements**Prevision:**

- P262 – Do not get in eyes or on skin.
- P271 – Use only in a well-ventilated area.
- P280 – Wear protective gloves and goggles.

Response:

- P301 + P331 + P330 + P312 – If swallowed, do not induce vomiting! Rinse mouth with water and call a doctor if you feel unwell.
- P302 + P361 + P353 – If on skin: Take off all contaminated clothing and rinse skin with plenty of water.
- P333 + P311 – If skin irritation or rash occurs: get medical attention.
- P304 + P340 – If inhaled, remove person to fresh air and keep comfortable for breathing.
- P305 + P351 – If in eyes: Rinse cautiously with water for several minutes.
- P370 + P378 – In case of fire: Use foam, extinguishing powder and carbon dioxide to extinguish.

Storage:

- P102 – Keep out of the reach of children.
- P403 + P235 – Store in a well-ventilated place. Keep cool.

This information only concerns the above-mentioned product as supplied and may not be valid if used with other products or in any process. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

NOTE: This information is not to be taken as a warranty or representation for which we assume legal responsibility nor as permission, inducement or recommendation to practice any patented invention without a license.

The information is offered solely for your consideration, investigation and verification.