

LABEL REMOVER LEMON - BL020703



SAFETY DATA SHEET
(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : LABEL REMOVER LEMON

Product code : BL020703.

1.2. Relevant identified uses of the substance or mixture and uses advised against

To remove paper stickers and labels. Only use the product as directed on the aerosol.

1.3. Details of the supplier of the safety data sheet

Registered company name : Volcke Aerosol Belgium NV.

Address : Industrielaan 15. B-8520. Kuurne. Belgium.

Telephone : +32 (0) 56 35 17 23. Fax : /.

info.belgium@volcke-aerosol.com

https://www.volcke-aerosol.com

1.4. Emergency telephone number : +32 (0) 56 35 17 23.

Association/Organisation : https://www.volcke-aerosol.com.

Hours of operation : Monday - Thursday : 8:00-17:00; Friday : 8:00-13:00

Other emergency numbers

United Kingdom : National Poisons Information Service : +44 (0)844 892 0111. Ireland : Poisons Information Centre of Ireland : +353 1 809 2166. Malta : Emergency number : 112 ; Medicines & Poisons info Office : 2545 6508.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

May produce an allergic reaction (EUH208).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

2.2. Label elements

Detergent mixture (see section 15).

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS07

Signal Word :

DANGER

Product identifiers :

EC 927-241-2 HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Additional labeling :

EUH208 Contains ORANGE TERPENES. May produce an allergic reaction.

Hazard statements :

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements - General :

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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Precautionary statements - Prevention :

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P271 Use only outdoors or in a well-ventilated area.

Precautionary statements - Storage :

- P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

Precautionary statements - Disposal :

- P501 Dispose of container to an approved waste disposal plant.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

Intentional misuse of the preparation by concentrating and inhaling the vapours can be harmful or fatal.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Composition :**

Identification	Classification (EC) 1272/2008	Note	%
EC: 927-241-2 REACH: 01-2119471843-32 HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH:066		25 $\leq$ x % < 50
CAS: 106-97-8 EC: 203-448-7 REACH: 01-2119474691-32-XXXX BUTANE (< 0,1 % 1,3-BUTADIENE)	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	C [1] [7]	10 $\leq$ x % < 25
CAS: 74-98-6 EC: 200-827-9 REACH: 01-2119486944-21-XXXX PROPANE	GHS02 Dgr Flam. Gas 1, H220 Press. Gas, H280	[1] [7]	10 $\leq$ x % < 25
CAS: 8028-48-6 EC: 232-433-8 REACH: 01-2119493353-35 ORANGE TERPENES	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 Skin Irrit. 2, H315 Skin Sens. 1, H317		0.1 $\leq$ x % < 1
CAS: 5392-40-5 EC: 226-394-6 CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	[1]	0 $\geq$ x % < 0.01

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 5392-40-5 EC: 226-394-6 CITRAL		dermal: ATE = 2250 mg/kg BW

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

[7] Propellant gas

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SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

In the event of an allergic reaction, seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

In the event of splashes or contact with skin :

In the event of an allergic reaction, seek medical attention.

In the event of swallowing :

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

See section 11.

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

If you feel unwell, seek medical advice (show the label if possible). If symptoms persist, always call a doctor.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

If the aerosols are exposed to a fire : keep containers cool by spraying with water from a protected position.

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO₂)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

If possible, stop the product stream. Spray from a protected position till the containers are cool. If possible, take the aerosols outside. Keep public at a distance.

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SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Packages which have been opened must be reclosed carefully and stored in an upright position.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Keep away from all sources of ignition - do not smoke.

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Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

Storage in a dry, frost-free and well ventilated place.

Store upright.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8	600 ppm 1450 mg/m3	750 ppm 1810 mg/m3		Carc	

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : RCP-TWA-mg/m³ : 1200; RCP-TWA-ppm : 226

- Ireland (Code of practice for the Chemical Agents Regulations, 2021) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
106-97-8		1000 ppm			
74-98-6				Asphx.	
5392-40-5	5 (IFV) ppm				

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

ORANGE TERPENES (CAS: 8028-48-6)

Final use:

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Short term local effects.
185.8 µg of substance/cm2

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
8.89 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
31.1 mg of substance/m3

Final use:

Exposure method:
Potential health effects:
DNEL :

Consumers.

Ingestion.
Long term systemic effects.
4.44 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Short term local effects.
92.9 µg of substance/cm2

Exposure method:
Potential health effects:
DNEL :

Dermal contact.
Long term systemic effects.
4.44 mg/kg body weight/day

Exposure method:
Potential health effects:
DNEL :

Inhalation.
Long term systemic effects.
7.78 mg of substance/m3

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

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Final use:

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Final use:

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Exposure method:
Potential health effects:
DNEL :

Workers.

Dermal contact.
Long term systemic effects.
77 mg/kg body weight/day

Inhalation.
Long term systemic effects.
871 mg of substance/m³

Consumers.

Ingestion.
Long term systemic effects.
46 mg/kg body weight/day

Dermal contact.
Long term systemic effects.
46 mg/kg body weight/day

Inhalation.
Long term systemic effects.
185 mg of substance/m³

Predicted no effect concentration (PNEC):

ORANGE TERPENES (CAS: 8028-48-6)

Environmental compartment:
PNEC : Soil.
0.261 mg/kg

Environmental compartment:
PNEC : Fresh water.
5.4 µg/l

Environmental compartment:
PNEC : Sea water.
0.54 µg/l

Environmental compartment:
PNEC : Intermittent waste water.
5.77 µg/l

Environmental compartment:
PNEC : Fresh water sediment.
1.3 mg/kg

Environmental compartment:
PNEC : Marine sediment.
0.13 mg/kg

Environmental compartment:
PNEC : Waste water treatment plant.
2.1 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

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Do not spray in the direction of the eyes.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVA (Polyvinyl alcohol)

- Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

Not necessary at efficient use. Wash skin that has been in contact with the product, with water and soap.

- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

Particle filter according to standard EN143 :

- P1 (White)

Do not breathe spray. Use only in well-ventilated areas.

Exposure controls linked to environmental protection

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state : Fluid liquid.
Spray.

Colour

Colourless, clear

Odour

Odour threshold : Not stated.
Odour : Lemon fragrance

Freezing point

Freezing point / Freezing range : Not stated.

Boiling point or initial boiling point and boiling range

Boiling point/boiling range : Not relevant.

Flammability

Flammability (solid, gas) : Not stated.
Flammability : Extremely flammable

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) : Not stated.
Explosive properties, upper explosivity limit (%) : Not stated.

Flash point

Flash point interval : Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not relevant.

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Decomposition temperature

Decomposition point/decomposition range : Not relevant.

pH

pH (aqueous solution) : Not stated.

pH : Not relevant.

Kinematic viscosity

Viscosity : Not stated.

Solubility

Water solubility : Insoluble.

Fat solubility : Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water : Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : 0.631

Relative vapour density

Vapour density : Not stated.

9.2. Other information

VOC (g/l) : 630.51

Pressure at 20°C : ± 4.0 bar

Pressure at 50°C : < 10 bar

Water content : < 0.3 % w/w

9.2.1. Information with regard to physical hazard classes

No data available.

Aerosols

Chemical combustion heat : ≥ 30 kJ/g.

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heat
- flames and hot surfaces
- frost

Protect from sunlight and do not expose to temperatures exceeding 50°C. Keep away from heat and sources of ignition. Storage in a dry, frost-free and well ventilated place.

10.5. Incompatible materials

No materials known by which a dangerous reaction can occur.

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

The product is stable. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.

11.1.1. Substances

Acute toxicity :

PROPANE (CAS: 74-98-6)

Inhalation route (Dusts/mist) : LC50 > 10 mg/l

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Inhalation route (Vapours) : LC50 > 10 mg/l

CITRAL (CAS: 5392-40-5)

Dermal route : LD50 = 2250 mg/kg bodyweight/day

ORANGE TERPENES (CAS: 8028-48-6)

Oral route : LD50 > 5000 mg/kg bodyweight/day
Species : Rat

Dermal route : LD50 > 5000 mg/kg bodyweight/day
Species : Rabbit

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Oral route : LD50 > 5000 mg/kg bodyweight/day
Species : Rat
OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 > 5000 mg/kg bodyweight/day
Species : Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Dusts/mist) : LC50 > 5000 mg/m3
Species : Rat
OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/skin irritation :

Orange terpenes : Causes skin irritation.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Slightly irritating to skin in case of prolonged exposure.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS
OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious damage to eyes/eye irritation :

Orange terpenes : Rabbit : Not irritating.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : May cause mild, short-lasting discomfort to eyes.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation :

Orange terpenes : May cause an allergic skin reaction.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Local lymph node stimulation test : Non-Sensitiser.

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OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity :

ORANGE TERPENES (CAS: 8028-48-6)

No mutagenic effect.

PROPANE (CAS: 74-98-6)

No mutagenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No mutagenic effect.

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

No mutagenic effect.

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Carcinogenicity :

ORANGE TERPENES (CAS: 8028-48-6)

Carcinogenicity Test :

Negative.
No carcinogenic effect.

PROPANE (CAS: 74-98-6)

Carcinogenicity Test :

Negative.
No carcinogenic effect.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Carcinogenicity Test :

Negative.
No carcinogenic effect.

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Carcinogenicity Test :

Negative.
No carcinogenic effect.
OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)

Reproductive toxicant :

ORANGE TERPENES (CAS: 8028-48-6)

No toxic effect for reproduction

PROPANE (CAS: 74-98-6)

No toxic effect for reproduction

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

No toxic effect for reproduction

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

No toxic effect for reproduction

OECD Guideline 414 (Prenatal Developmental Toxicity Study)
OECD Guideline 415 (One-Generation Reproduction Toxicity Study)

Specific target organ systemic toxicity - single exposure :

Orange terpenes : To human : Not classified for organ toxicity. For animals : No effects known.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : May cause drowsiness or dizziness.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

Specific target organ systemic toxicity - repeated exposure :

Orange terpenes : To human : Not classified for organ toxicity. For animals : No effects known.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Not likely to cause organ damage.

Butane/Isobutane/Propane : Based on available data, the classification criteria are not met.

ORANGE TERPENES (CAS: 8028-48-6)

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Oral route :
C = 1000 mg/kg bodyweight/day
Species : Mouse
Duration of exposure : 90 days

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS
OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

Aspiration hazard :

Orange terpenes : May be fatal if swallowed and enters airways.
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : May be fatal if swallowed and enters airways.
Butane/Isobutane/Propane : Not applicable to gases and gas mixtures.

11.1.2. Mixture

Respiratory or skin sensitisation :

Contains at least one sensitising substance. May cause an allergic reaction.

11.2. Information on other hazards

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.
The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

ORANGE TERPENES (CAS: 8028-48-6)

Fish toxicity :
LC50 = 0.7 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h
OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity :
EC50 = 0.67 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.2 mg/l
Species : Daphnia magna
Duration of exposure : 48 h
OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity :
ECr50 = 150 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

NOEC = 50 mg/l
Species : Desmodesmus subspicatus
Duration of exposure : 72 h
OECD Guideline 201 (Alga, Growth Inhibition Test)

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Fish toxicity :
LC50 > 10 mg/l
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity :
EC50 > 22 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

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Algae toxicity :

ECr50 > 1000 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h

NOEC < 1 mg/l
Species : Pseudokirchnerella subcapitata
Duration of exposure : 72 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Expected to be readily biodegradable. Transformation due to hydrolysis and due to photolysis is not expected to be significant. Expected to degrade rapidly in air.

12.2.1. Substances

CITRAL (CAS: 5392-40-5)

Biodegradability :

no degradability data is available, the substance is considered as not degrading quickly.

ORANGE TERPENES (CAS: 8028-48-6)

Biodegradability :

Rapidly degradable.
DBO5/DCO > 0.72

PROPANE (CAS: 74-98-6)

Biodegradability :

Rapidly degradable.

BUTANE (< 0,1 % 1,3-BUTADIENE) (CAS: 106-97-8)

Biodegradability :

Rapidly degradable.

HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS

Biodegradability :

Rapidly degradable.
DBO5/DCO >= 0.6

12.3. Bioaccumulative potential

Butane/Isobutane/Propane : Not expected to be dangerous for the aquatic environment.

Orange terpenes : Little chance on bioaccumulation.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Not determined.

12.3.1. Substances

ORANGE TERPENES (CAS: 8028-48-6)

Octanol/water partition coefficient :

log K_{ow} >= 4

Bioaccumulation :

BCF < 156

12.4. Mobility in soil

Butane/Isobutane/Propane : If released into the environment, the product will rapidly disperse into the atmosphere where it will undergo photochemical degradation.

Orange terpenes : No data available.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Highly volatile, will spread rapidly in air. It is not expected to extract to the sediment and the fraction fixed substances in the waste water.

12.5. Results of PBT and vPvB assessment

Orange terpenes : PBT/vPvB : No.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : PBT/vPvB : No.

Butane/Isobutane/Propane : Not considered to be a PBT or a vPvB.

12.6. Endocrine disrupting properties

Orange terpenes : No data available.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : No known endocrine disrupting properties that affect the environment.

Butane/Isobutane/Propane : Not applicable.

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12.7. Other adverse effects

Orange terpenes : Do not flush into surface water or sanitary sewer system. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Butane/Isobutane/Propane : Not applicable.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : No harmful effects are expected.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Recycle or dispose of waste in compliance with current legislation, namely the Ordinance on the Avoidance and Disposal of Waste (Waste Ordinance, VVEA, SR 814.600), the Ordinance on Waste from June 22, 2005 (VeVA, SR 814, 610) and DETEC Ordinance on Waste Lists.

Disposal of the product (the unused product, residual quantities, the cured product, emptied but uncleaned packaging) : preferably by an approved waste collector or a specialist disposal company. Suitable containers and methods of waste treatment should be used.

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

15 01 10 * packaging containing residues of or contaminated by dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

1950

14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

14.3. Transport hazard class(es)

- Classification :

2.1

ADR/RID Label : Limited Quantity : 2.1 is not applicable.

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69	
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	2.1	-	-	203	75 kg	203	150 kg	A145 A167 A802	E0	
	2.1	-	-	Y203	30 kg G	-	-	A145 A167 A802	E0	

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

No data available.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Particular provisions :

No data available.

Labelling for detergents (EC Regulation No. 648/2004, 907/2006) :

- 30 % and more : aliphatic hydrocarbons

- perfumes

- allergenic fragrances :

geraniol

citral

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following products or for the substances in these products :

Orange terpenes

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

DNEL : Derived No-Effect Level

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PNEC : Predicted No-Effect Concentration

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.

Difference Report

Revision: N°4 (26/06/2023) / HCS n° / Version: N°2 (26/06/2023)

Revision: N°3 (18/11/2021) / HCS n° / Version: N°1 (18/11/2021)

SECTION 2 : HAZARDS IDENTIFICATION

In compliance with EC regulation No. 1272/2008 and its amendments.

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Composition :

EC: 927-241-2 REACH: 01-2119471843-32 HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH:066		50 ≤ x % < 100
CAS: 5392-40-5 EC: 226-394-6 REACH: 01-2119462829-23 CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1, H317	[1]	0 ≥ x % < 0.05
EC: 927-241-2 REACH: 01-2119471843-32 HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2 % AROMATICS	GHS07, GHS08, GHS02 Dgr Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 Aquatic Chronic 3, H412 EUH:066		25 ≤ x % < 50
CAS: 5392-40-5 EC: 226-394-6 CITRAL	GHS07 Wng Skin Irrit. 2, H315 Skin Sens. 1B, H317 Eye Irrit. 2, H319	[1]	0 ≥ x % < 0.01

Specific concentration limits:

Identification	Specific concentration limits	ATE
CAS: 5392-40-5 EC: 226-394-6 CITRAL		dermal: ATE = 2250 mg/kg BW

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

~~CITRAL (CAS: 5392-40-5)~~

Final use: Workers.

~~DNEL: 1.7 mg/kg body weight/day~~

~~Potential health effects: Long term local effects.~~

~~DNEL: 140 µg of substance/cm²~~

~~DNEL: 9 mg of substance/m³~~

Final use: Consumers.

~~DNEL: 600 µg/kg body weight/day~~

~~DNEL: 1 mg/kg body weight/day~~

~~Potential health effects: Long term local effects.~~

~~DNEL: 140 µg of substance/cm²~~

~~DNEL: 2.7 mg of substance/m³~~

Predicted no effect concentration (PNEC):

~~CITRAL (CAS: 5392-40-5)~~

~~PNEC: 20.9 µg/kg~~

~~PNEC: 6.78 µg/l~~

~~PNEC: 0.678 µg/l~~

~~PNEC: 125 µg/kg~~

~~PNEC: 12.5 µg/kg~~

~~PNEC: 1.6 mg/l~~

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.2. Other information

~~VOC (g/l): 629.42~~

~~VOC (g/l): 630.51~~

Physical state

~~Spray.~~

SECTION 11 : TOXICOLOGICAL INFORMATION

Serious damage to eyes/eye irritation :

~~Corneal haze: Average score = 0.25
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)~~

~~Ititis: Average score = 0
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)~~

~~Conjunctival redness: Average score = 1.5
Duration of exposure : 72 h
OECD Guideline 405 (Acute Eye Irritation / Corrosion)~~

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Conjunctival oedema:

Average score = 1.25

Duration of exposure : 72 h

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitisation :

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : Not likely to be sensitizing.

Acute toxicity :

Dermal route :

LD50 = 2250 mg/kg bodyweight/day

SECTION 12 : ECOLOGICAL INFORMATION

12.1.1. Substances

Fish toxicity:

LC50 = 6.78 mg/l

Crustacean toxicity:

EC50 = 6.8 mg/l

REACH Method C.2 (Acute Toxicity for Daphnia)

Algae toxicity:

ECr50 = 103.84 mg/l

Species : *Scenedesmus subspicatus*

12.2. Persistence and degradability

Butane/Isobutane/Propane : Expected to be readily biodegradable.

12.3.1. Substances

Octanol/water partition coefficient:

log K_{ow} = 2.76

12.6. Endocrine disrupting properties

No data available.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : No known endocrine disrupting properties that affect the environment.

Butane/Isobutane/Propane : Not applicable.

12.7. Other adverse effects

No data available.

Orange terpenes : Do not flush into surface water or sanitary sewer system. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Butane/Isobutane/Propane : Not applicable.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2 % aromatics : No harmful effects are expected.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2021-IMDG 2020 - ICAO/IATA 2021).

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2020 [40-20] - ICAO/IATA 2023 [64]).

SECTION 15: Regulatory information

Classification and labelling information included in section 2:

~~EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)~~

~~EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)~~

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):
<https://echa.europa.eu/substances-restricted-under-reach>.

Explosives precursors :

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

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SECTION 16 : OTHER INFORMATION

Wording of the phrases mentioned in section 3 :

H319 Causes serious eye irritation.

Abbreviations and acronyms :

ATE : Acute Toxicity Estimate

BW : Body Weight