

BERGAMOT LIME

Version 1.0

Revision Date 01.01.2021

SECTION 1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Sales No. : 11528-401-3 (A.221.26)
BERGAMOT LIME

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

Intended Use Fragrances : Perfume compound

1.3 Details of the supplier of the safety data sheet

Company : MINIMA Martyna Kotur
ul. Puławska 145
02-715 Warszawa
POLAND

Telephone : +48 578 715 000
E-mail address : cs@essentials.com.pl

1.4 Emergency telephone number

+48 578 715 000 (office hours only)

SECTION 2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Administrative information:
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Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/
vapours/ spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face
protection.
Response:
P333 + P313 If skin irritation or rash occurs: Get medical
advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/
attention.
P362 + P364 Take off contaminated clothing and wash it
before reuse.

Hazardous components which must be listed on the label:

- citral 5392-40-5
- (R)-p-mentha-1,8-diene 5989-27-5
- 2-hexyl-3-phenyl-2-propenal (trans & 101-86-0
cis)
- Bicyclo[3.1.1]heptane, 6,6-dimethyl- 127-91-3
2-methylene- (= Beta-pinene)
- 2,6,6-trimethyl-Bicyclo[3.1.1]hept-2- 80-56-8
ene (= alpha-pinene)
- 3,7-dimethyl-1,6-octadien-3-ol (= 78-70-6
Linalool)
- 2,4-dimethylcyclohex-3-ene-1- 68039-49-6
carbaldehyde
- (2E)-3,7-dimethyl-2,6-octadien-1-ol 106-24-1
(= geraniol)
- 3,7-dimethyl-2,6-octadienyl acetate 105-87-3
(= geranyl acetate)
- 2-methoxy-4-propenylphenol (= 97-54-1
isoeugenol)

2.3 Other hazards

Hazards not Otherwise Classified : None

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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SECTION 3. Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [Percent by weight]
citral	5392-40-5 226-394-6 01-2119462829-23- 0000	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 5 - < 10
(R)-p-mentha-1,8-diene	5989-27-5 227-813-5 01-2119529223-47	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 10
2-hexyl-3-phenyl-2-propenal (trans & cis)	101-86-0 202-983-3 01-2119533092-50- 0000	Skin Sens. 1B; H317 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 2,5 - < 5
Benzyl acetate	140-11-4 205-399-7 01-211963827242- 0000 01-211963827242- 0002 01-211963827242- xxxx	Aquatic Chronic 3; H412	>= 1 - < 2,5
3A,4,5,6,7,7A-Hexahydro-4,7-methano-1H-inden-5(6)-yl propionate	68912-13-0 272-805-7 01-2119969447-21- 0002	Aquatic Chronic 2; H411	>= 1 - < 2,5

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2,6-dimethyl-7-octen-2-ol	18479-58-8 242-362-4 01-2119457274-37-0002 01-2119457274-37-0010	Skin Irrit. 2; H315 Eye Irrit. 2; H319	>= 1 - < 5
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene)	127-91-3 204-872-5	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2,5
2-propenyl hexanoate (= Allyl hexanoate)	123-68-2 204-642-4 01-2119983573-26-0000	Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	>= 0,25 - < 1
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene)	80-56-8 201-291-9 01-2119519223-49-0000	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Skin Sens. 1B; H317 Asp. Tox. 1; H304 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,25 - < 1
3,7-dimethyl-1,6-octadien-3-ol (= Linalool)	78-70-6 201-134-4 01-2119474016-42-0000 01-2119474016-42-0002	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 0,1 - < 1
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	68039-49-6 268-264-1 01-2119982384-28-0002	Skin Irrit. 2; H315 Skin Sens. 1B; H317 Aquatic Chronic 2; H411	>= 0,1 - < 0,25

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(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	106-24-1 203-377-1 01-2119552430-49-0000 01-2119552430-49-0002 01-2119552430-49-0004	Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 0,1 - < 1
3,7-dimethyl-2,6-octadienyl acetate (= geranyl acetate)	105-87-3 203-341-5	Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	>= 0,1 - < 0,25
2-methoxy-4-propenylphenol (= isoeugenol)	97-54-1 202-590-7	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317	>= 0 - < 0,02

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Remove contact lenses.
Immediately flush eyes for at least 15 minutes. Get medical attention.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

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Symptoms : no data available
Risks : no data available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : no data available

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Dry chemical
Alcohol-resistant foam
Carbon dioxide (CO₂)
Water spray

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

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acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Not applicable

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.
Temperature class : no data available
Fire-fighting class : no data available
Dust explosion class : no data available

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : Ambient / 10-30°C (50 -85°F)
Dry, well ventilated, preferably full, hermetically sealed
Advice on common storage : Protect against light.
German storage class : no data available
Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : no data available

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

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Components	CAS-No.	Value	Control parameters	Update	Basis
citral	5392-40-5	NDS	27 mg/m3	2014-06-23	PL OEL
		NDSch	54 mg/m3	2014-06-23	PL OEL

8.2 Exposure controls

Personal protective equipment

- Hand protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.
- Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

Environmental exposure controls

- General advice : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
Form : liquid
Colour : colorless to Very slightly yellow
Taste : not determined
Odour : Citrus-like
Odour Threshold : Not applicable

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Flash point	: 84 °C Method: Grabner miniflash closed cup
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not applicable
Oxidizing properties	: no data available
Auto-ignition temperature	: not determined
Decomposition temperature	: no data available
pH	: not determined
Melting point	: not determined
Boiling point	: not determined
Vapour pressure	: 0,1901 hPa at 20 °C Calculated (99,1 %)
Density	: 873,42 kg/m ³ at 20 °C
Bulk density	: Not applicable
Water solubility	: not determined
Solubility/qualitative	: practically insoluble
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, kinematic	: no data available
Relative vapour density	: no data available
Evaporation rate	: no data available
Explosive properties	: no data available

9.2 Other information

Not applicable

SECTION 10. Stability and reactivity

10.1 Reactivity

none

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available
Thermal decomposition : no data available

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SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate
Dose: > 2 000 mg/kg
Method: Calculation method

Acute oral toxicity

(R)-p-mentha-1,8-diene : LD50: 5 600 mg/kg Species: Mouse

2-hexyl-3-phenyl-2-propenal
(trans & cis) : LD50: 3 100 mg/kg Species: Rat

Benzyl acetate : LD50: 2 490 mg/kg Species: Rat

3A,4,5,6,7,7A-Hexahydro-
4,7-methano-1H-inden-5(6)-
yl propionate : LD50: > 5 000 mg/kg Species: Rat

2,6-dimethyl-7-octen-2-ol : LD50: 3 600 mg/kg Species: Rat

2-propenyl hexanoate (= Allyl
hexanoate) : LD50: 218 mg/kg Species: Rat

2,6,6-trimethyl-
Bicyclo[3.1.1]hept-2-ene (=
alpha-pinene) : LD50: 3 700 mg/kg Species: Rat

3,7-dimethyl-1,6-octadien-3-
ol (= Linalool) : LD50: 2 790 mg/kg Species: Rat

(2E)-3,7-dimethyl-2,6-
octadien-1-ol (= geraniol) : LD50: 3 600 mg/kg Species: Rat

3,7-dimethyl-2,6-octadienyl
acetate (= geranyl acetate) : LD50: 6 330 mg/kg Species: Rat

2-methoxy-4-propenylphenol : LD50: 1 560 mg/kg Species: Rat
(= isoeugenol)

Acute inhalation toxicity : Acute toxicity estimate
Exposure time: 4 h
Dose: > 20,00 mg/l
Method: Calculation method

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Acute dermal toxicity	: Acute toxicity estimate Dose: > 2 000 mg/kg Method: Calculation method	
Acute dermal toxicity citral	: LD50: 2 250 mg/kg	Species: Rabbit
(R)-p-mentha-1,8-diene	: LD50: > 5 000 mg/kg	Species: Rabbit
2-propenyl hexanoate (= Allyl hexanoate)	: LD50: 300 mg/kg	Species: Rabbit
2,4-dimethylcyclohex-3-ene-1-carbaldehyde	: LD50: 5 000 mg/kg	Species: Rabbit
(2E)-3,7-dimethyl-2,6-octadien-1-ol (= geraniol)	: LD50: > 5 000 mg/kg	Species: Rabbit
2-methoxy-4-propenylphenol (= isoeugenol)	: LD50: 1 770 mg/kg	Species: Rabbit
Acute toxicity (other routes of administration)	: No data is available on the product itself.	
Skin corrosion/irritation		
Skin irritation	: May cause skin irritation and/or dermatitis.	
Serious eye damage/eye irritation		
Eye irritation	: Vapours may cause irritation to the eyes, respiratory system and the skin.	
Respiratory or skin sensitisation		
Sensitisation	: No data is available on the product itself.	
Germ cell mutagenicity		
Germ cell mutagenicity	: No data is available on the product itself.	
Carcinogenicity		
Carcinogenicity	: No data is available on the product itself.	
Reproductive toxicity		
Reproductive toxicity	: No data is available on the product itself.	

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Target Organ Systemic Toxicant - Single exposure

Target Organ Systemic Toxicant - Single exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure

Target Organ Systemic Toxicant - Repeated exposure : No data is available on the product itself.

Target Organ Systemic Toxicant - Repeated exposure Aspiration hazard

Aspiration toxicity : No data is available on the product itself.

Phototoxicity

Phototoxicity : No data is available on the product itself.

Further information : no data available

SECTION 12. Ecological information

12.1 Toxicity

Toxicity to fish : no data available
Toxicity to daphnia and other aquatic invertebrates : no data available
Toxicity to algae : no data available
M-Factor
(R)-p-mentha-1,8-diene : 1
M-Factor
2-hexyl-3-phenyl-2-propenal (trans & cis) : 1
M-Factor
Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (= Beta-pinene) : 1
M-Factor
2-propenyl hexanoate (= Allyl hexanoate) : 1
M-Factor
2,6,6-trimethyl-Bicyclo[3.1.1]hept-2-ene (= alpha-pinene) : 1
M-Factor
2,4-dimethylcyclohex-3-ene-1-carbaldehyde : 1
Toxicity to bacteria : no data available

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Toxicity to fish (Chronic toxicity) : no data available
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : no data available
Acute aquatic toxicity : no data available
Chronic aquatic toxicity : no data available
Toxicity Data on Soil : no data available
Other organisms relevant to the environment : no data available

12.2 Persistence and degradability

Biodegradability : no data available

12.3 Bioaccumulative potential

Bioaccumulation : no data available

12.4 Mobility in soil

Mobility : no data available
Distribution among environmental compartments : no data available
Additional advice : no data available
Environmental fate and pathways
Physico-chemical removability : no data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Biochemical Oxygen Demand (BOD) : no data available
Dissolved organic carbon (DOC) : no data available
Chemical Oxygen Demand (COD) : no data available
Adsorbed organic bound halogens (AOX) : no data available
Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

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SECTION 13. Disposal considerations

13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

Dispose of in accordance with local regulations.

SECTION 14. Transport information

ADR/RID/ADN

- UN number : 3082
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Methyl isopropenyl cyclohexene, beta-Pinene)
Transport hazard class(es) : 9
Packing group : III
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)
Environmentally hazardous : yes

IATA/ICAO

- UN number : 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Methyl isopropenyl cyclohexene, beta-Pinene)
Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

- Packing instruction (CAO) : 964
Packing instruction (PAX) : 964
Packing instruction (Ltd. Qty.) : Y964

IMDG

- UN number : 3082
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Methyl isopropenyl cyclohexene, beta-Pinene)

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Class : 9
Packing group : III
Labels : 9
EmS Fire : F-A
EmS Spillage : S-F

Marine pollutant : yes
Methyl isopropenyl cyclohexenebeta-Pinene
IMDG Code Segregation : None
Group

SECTION 15. Regulatory information

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

Major Accident Hazard : ENVIRONMENTAL HAZARDS
Legislation E2
Quantity 1: 200 t
Quantity 2: 500 t

Water contaminating class : WGK 3 highly water endangering
(Germany)

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H311 Toxic in contact with skin.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

— E S S E N T I A L S

PREMIUM FRAGRANCES

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Key or legend to abbreviations and acronyms used in the safety data sheet

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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