



ESSENTIAL OIL COMPENDIUM



Three generations of Browns
on a wormwood crop visit

FAMILY OWNED SINCE 1908

"I've been fascinated with aromatic plants my entire life. My father and I used to go on walks where he would pull leaves, branches, and flowers from random plants and trees and crush them in his hands. We would smell them together. I was born into this industry, and I can't help being passionate about it," explains Rob Brown, Owner, CEO, and President.

Our family's passion for essential oils has been essential to our success. We conduct field visits to assess the crops and predict market fluctuations. With our technical knowledge and advanced equipment, we harness the benefits of nature.

Lebermuth believes in transparency and quality, providing our customers with education, regulatory documents, and high quality ingredients with each day, each oil, and each generation. Because that's our passion.

THE LEBERMUTH DIFFERENCE

We source the finest essential oils from over 30 countries, from top rated growers and premium locations. With Lebermuth's grower direct sourcing relationships, our customers enjoy better quality ingredients via a more direct supply chain, knowing they're helping provide ecological and social sustainability for our farmers.

With our five distillation units in Bremen, Indiana, we feature distillation capabilities, to isolate, place, or reduce constituents to increase usability, reliability, and characteristics of our oils.

We've innovated unique products, Tea Tree Heart and Chamomile Coeur, that solved supply and aroma issues for customers. Our capabilities also include reduction of safrole in Nutmeg, Cinnamon Leaf, and other oils to align with IFRA-approved usage levels, and rectification of oils like Lemongrass and Wintergreen. Premium products that solved supply and aroma issues for our customers.



THE LEBERMUTH DIFFERENCE

To properly distill an oil, it's necessary to know the ratio of constituents. We're one of the first to adopt testing using chiral GC, which enables a more comprehensive and further break down of an oil's individual components. Using this analysis technology, we're able to verify the authenticity and quality of our oils as part of our quality control/quality assurance procedures. When we say we source the highest quality oils, we have the analysis to prove it.



Offering raw materials, pure grade, standardized, kosher, and organic certified essential oils, we also create custom blends to flavor or fragrance many applications, and for therapeutic uses.



HOW TO READ THIS COMPENDIUM

Common Name

Botanical Name

CAS (Chemical Abstracts Service) Registry Number

Country or Countries of Origin

Extraction Method

Odor Description

• **BASIL**

• *Ocimum basilicum*

• **CAS** 8015-73-4

• **Origin** Egypt, India, USA

• **Extraction** Steam Distillation

• Light, fresh sweet-spicy aroma and balsamic undertone.

O

K

PG

FG

ESSENTIAL OIL GRADE DEFINITIONS

- O

Certified Organic by an independent, third party verification organization. Oils have been extracted from plants grown organically, without use of pesticides, and under approved methods of cultivation, harvest, and extraction. Lebermuth's organic oils are certified by Oregon Tilth.
- K

Certified by an independent third party to meet the requirements and restrictions of Kosher law. Lebermuth's Kosher oils are certified by the Chicago Rabbinical Council.
- PG

Pure Grade is 100% pure and natural from a single botanical species, extracted exclusively by physical means without additives, residual solvents, or extraction aids.
- CG

Commercial Grade, also known as standardization. The addition or removal of constituents. Uses either natural or non-natural components to meet a standardized specification.
- FG

Food Grade oils are Generally Recognized as Safe (GRAS) and approved by the FDA for human consumption.

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ALLSPICE*Pimenta dioica***CAS** 8006-77-7**Origin** Jamaica**Extraction** Steam DistillationPowerful sweet-spicy odor,
similar to cloves**AMYRIS***Amyris balsamifera***CAS** 8015-65-4**Origin** Haiti**Extraction** Steam Distillation

Musty, faintly woody aroma

**ANISE, STAR***Illicium verum***CAS** 8007-70-3**Origin** China**Extraction** Steam DistillationWarm, spicy, extremely sweet,
licorice-like aroma**BALSAM FIR***Abies balsamea***CAS** 8024-15-5**Origin** Canada**Extraction** Steam Distillation

Sweet, soft-balsamic, pine-like aroma

**BALSAM, PERU***Myroxylon pereirae***CAS** 8007-00-9**Origin** El Salvador**Extraction** Steam DistillationRich, sweet, balsamic,
'vanilla-like' odor**BASIL***Ocimum basilicum***CAS** 8015-73-4**Origin** Egypt, India**Extraction** Steam DistillationEgyptian basil is the Estragole
(Methyl Chavicol) type with a slightly
coarse sweet-herbaceous odor with
a camphoraceous tinge.Indian basil is the Linalool type with
a light, fresh sweet-spicy aroma and
balsamic undertone.

BAY LAUREL

Laurus nobilis

CAS Leaves, 8007-48-5
Branchlets, 8002-41-3

Origin France, Turkey

Extraction Steam Distillation

Aromatic, spicy-sweet, fresh, camphoraceous odor



BAY LEAF

Pimenta racemosa

CAS 8006-78-8

Origin Dominica

Extraction Steam Distillation

Fresh-spicy top note and a sweet balsamic undertone



BERGAMOT

Citrus bergamia

CAS 8007-75-8

Origin Italy

Extraction Cold Press

Fresh sweet-fruity, slightly spicy balsamic undertone



Bergapten-free oil is also available.



BOIS DE ROSE (ROSEWOOD)

Aniba rosaeodora

CAS 8015-77-8

Origin Brazil

Extraction Steam Distillation

Very sweet, woody-floral aroma with a spicy hint



CAJEPUT

Melaleuca leucadendron l. V. cajuputi

CAS 8008-98-8

Origin Australia, Vietnam

Extraction Steam Distillation

Penetrating, camphoraceous-medicinal odor



CAMPHOR

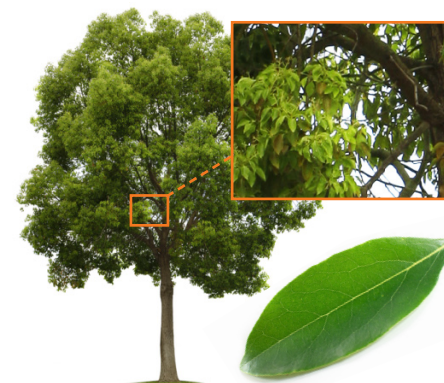
Cinnamomum camphora

CAS 8008-51-3

Origin China

Extraction Steam Distillation

Sharp, pungent camphoraceous odor



CARAWAY*Carum carvi***CAS** 8000-42-8**Origin** Holland**Extraction** Steam distillationStrong, warm, sweet-spicy odor,
like rye bread**CARDAMOM***Elettaria cardamomum***CAS** 8000-66-6**Origin** Germany, Sri Lanka**Extraction** Steam Distillation or CO₂Sweet-spicy, warming aroma with a
woody balsamic undertone**CARROT SEED***Daucus carota***CAS** 8015-88-1**Origin** India**Extraction** Steam Distillation

Warm, dry, woody-earthy odor

**CASSIA***Cinnamomum cassia***CAS** 8007-80-5**Origin** China**Extraction** Steam Distillation or CO₂Steam Distillation has a sweet,
woody-spicy tenacious odor

Extra redistilled oil is also available.

**CATNIP***Nepeta cataria***CAS** 8023-84-5**Origin** Canada**Extraction** Steam Distillation

Herbaceous-woody, pungent odor

**CEDARLEAF***Thuja occidentalis***CAS** 8007-20-3**Origin** Canada**Extraction** Steam Distillation

Sharp, fresh, camphoraceous odor



CEDARWOOD, ATLANTIC*Cedrus atlantica***CAS** 8023-85-6**Origin** Morocco**Extraction** Steam Distillation

Warm, camphoraceous top note and sweet tenacious, woody-balsamic undertone

**CEDARWOOD, HIMALAYAN***Cedrus deodara***CAS** 68991-36-6**Origin** India**Extraction** Steam Distillation

Warm, sweet, earthy aroma with a slightly camphoraceous top note and a dry woody-balsamic undertone

**CEDARWOOD, TEXAS***Juniperus mexicana***CAS** 68990-83-0**Origin** USA**Extraction** Steam Distillation

Sweet, balsamic, 'pencil wood' scent, similar to Virginian cedarwood but harsher

**CEDARWOOD, VIRGINIA***Juniperus virginiana***CAS** 8000-27-9**Origin** USA**Extraction** Steam Distillation

Mild, sweet, balsamic, 'pencil wood' aroma

**CHAMOMILE, ROMAN***Anthemis nobilis***CAS** 8015-92-7**Origin** Hungary, Italy, UK, USA**Extraction** Steam Distillation

Intense, sweet, warm fruity-herbaceous odor



Domestic and English oils are also available.

**CHAMOMILE, BLUE***Matricaria recutita***CAS** 8002-66-2**Origin** Egypt**Extraction** Steam Distillation

Strong, sweetish warm-herbaceous odor



A solvent extracted oil is also available.



CINNAMON

Cinnamomum zeylanicum

CAS 8015-91-6

Origin Sri Lanka

Extraction Steam Distillation

Sweet, warm-spicy, dry, tenacious odor



Bark oil and leaf oils are also available.



CISTUS (ABSOLUTE)

Cistus ladanifer

CAS 8016-26-0

Origin France

Extraction Solvent

Rich, sweet, herbaceous-balsamic odor with amber undertones



CITRONELLA, JAVA

Cymbopogon winterianus

CAS 91771-61-8 (China)

CAS 8000-29-1 (Indonesia)

Origin China, Indonesia

Extraction Steam Distillation

Fresh, woody-sweet, lemony odor



CITRONELLA

Cymbopogon nardus

CAS 8000-29-1

Origin Sri Lanka

Extraction Steam Distillation

Fresh, powerful lemony-green aroma



CLEMENTINE

Citrus clementina

CAS 8008-31-9

Origin Italy

Extraction Cold Press

Intensely sweet, citrus-floral aroma



CLOVE BUD

Syzygium aromaticum

CAS 8000-34-8

Origin Indonesia, Sri Lanka

Extraction Steam Distillation

Sweet-spicy odor and fruity-fresh top note



Redistilled oil is also available.



CLOVE LEAF

Eugenia caryophyllata

CAS 8000-34-8

Origin Indonesia

Extraction Steam Distillation

Harsh, burnt-woody odor with spicy undertones



COPAIBA BALSAM

Copaifera officinalis

CAS 8001-61-4

Origin Brazil

Extraction Steam Distillation

Mild, sweet, balsamic-peppery odor



CORIANDER SEED

Coriandrum sativum

CAS 8008-52-4

Origin Russia

Extraction Steam Distillation

Sweet, woody-spicy, slightly musky aroma



CORNMINT

Mentha arvensis

CAS 68917-18-0

Origin India

Extraction Steam Distillation, redistilled

Strong, fresh, bitter-sweet minty odor, somewhat like peppermint



CYPRESS

Cupressus sempervirens

CAS 8013-86-3

Origin Spain

Extraction Steam Distillation

Smoky, sweet-balsamic tenacious odor



DAVANA

Artemisia pallens wall

CAS 8016-03-3

Origin India

Extraction Steam Distillation

Rich, fruity, slightly sweet and herbaceous with warm, woody undertone



ELEMI

Canarium luzonicum

CAS 8023-89-0

Origin France

Extraction Steam Distillation

Light, fresh, balsamic spicy, lemon-like odor.



EUCALYPTUS

Eucalyptus globulus

CAS 8000-48-4

Origin China

Extraction Steam Distillation

Somewhat harsh camphoraceous odor and woody-sweet undertone



EUCALYPTUS, LEMON

Eucalyptus citriodora

CAS 85203-56-1

Origin Brazil

Extraction Steam Distillation

Strong, fresh, citronella-like odor and sweet balsamic undertone



EUCALYPTUS

Eucalyptus polybractea

CAS 8000-48-4

Origin Australia

Extraction Steam Distillation

Strong, fresh, camphoraceous odor



EUCALYPTUS

Eucalyptus radiata

CAS 92201-64-4

Origin Australia, South Africa

Extraction Steam Distillation

Fresh, sweet, and less harsh camphoraceous odor



FENNEL

Foeniculum vulgare

CAS 8006-84-6

Origin Hungary

Extraction Steam Distillation

Sweet, anise-like aroma with a green-herbaceous undertone



FIR NEEDLE, BALSAM*Abies balsamea*

CAS 8021-28-1

Origin Canada

Extraction Steam Distillation

Pleasing, rich, sweet-balsamic odor.

**FIR NEEDLE, SIBERIAN***Abies sibirica*

CAS 8021-29-1

Origin Russia

Extraction Steam Distillation

Pleasing, rich, sweet-balsamic odor.

**FRANKINCENSE***Boswellia carteri*

CAS 8016-36-2

Origin Somolia

Extraction Steam Distillation

Fresh, terpeney top note and a warm, rich, sweet-balsamic undertone.

**GALBANUM***Ferula galbaniflua*

CAS 8023-91-4

Origin France

Extraction Steam Distillation

Fresh green top note and woody-dry balsamic undertone.

**GARLIC***Allium sativum*

CAS 8000-78-0

Origin China

Extraction Steam Distillation

Strong, unpleasant, familiar garlic-like odor

**GERANIUM***Pelargonium graveolens*

CAS 8000-46-2

Origin China, Egypt

Extraction Steam Distillation

Green, rosy-sweet, minty aroma



GINGER

Zingiber officinale

CAS 8007-08-7

Origin China, Sri Lanka

Extraction Steam Distillation

Warm, slightly green, fresh, woody-spicy aroma



GOLDENROD

Solidago canadensis

CAS 96690-40-3

Origin Canada

Extraction Steam Distillation

Strong fresh, balsamic, slightly bitter aroma with a woody-earthy undertone



GRAPEFRUIT

Citrus paradisi

CAS 8016-20-4

Origin USA

Extraction Cold Press

Fresh, sweet citrus aroma



Pink and White varieties are available.



HELICHRYSUM

Helichrysum italicum

CAS 8023-95-8

Origin Italy

Extraction Steam Distillation

Powerful, rich honey-like aroma with a delicate tea-like undertone



JASMINE (ABSOLUTE)

Jasminum grandiflorum

CAS 8022-96-6

Origin Egypt

Extraction Solvent

Intensely rich, warm, floral aroma and tea-like undertone.



JUNIPER BERRY

Juniperus communis

CAS 8002-68-4

Origin France, Macedonia

Extraction Steam Distillation

Sweet, fresh, woody-balsamic odor.



LAVANDIN

Lavandula hybrida

CAS 8022-15-9

Origin France, Spain, USA

Extraction Steam Distillation

Fresh camphoraceous top note and a woody herbaceous undertone.



LAVENDER, TRUE

Lavandula angustifolia

CAS 8000-28-0

Origin Bulgaria

Extraction Steam Distillation

Sweet, floral, herbaceous odor with a woody, balsamic undertone



LAVENDER, FRENCH

Lavandula stoechas

CAS 8000-28-0

Origin France

Extraction Steam Distillation

Fresh, sweet, slightly herbaceous, floral aroma



LAVENDER, SPIKE

Lavandula latifolia

CAS 8016-78-2

Origin Spain

Extraction Steam Distillation

Fresh, intensely herbaceous, camphoraceous odor



LEMON

Citrus limon

CAS 8008-56-8

Origin Argentina, Germany, Italy, USA

Extraction Cold Press

Light, fresh citrus odor



LEMONGRASS

Cymbopogon flexuosus

CAS 8007-02-01

Origin India

Extraction Steam Distillation

Fresh, grassy-lemony aroma, with earthy undertones



LIME*Citrus aurantifolia***CAS** 8008-26-2**Origin** Mexico, Sri Lanka**Extraction** Cold Press, Steam Distillation

Cold Press has a fresh, sweet, citrus-peel odor.

Steam Distillation has a fresh, sharp, fruity-citrus aroma.

**LITSEA CUBEBA***Litsea cubeba***CAS** 68855-99-2**Origin** China**Extraction** Steam Distillation

Intense, lemony, fresh-fruity odor

**MANDARIN, GREEN OR RED***Citrus reticulata***CAS** 8008-31-9**Origin** Italy**Extraction** Cold Press

Intensely sweet, almost floral citrus aroma

**MĀNUKA***Leptospermum scoparium***CAS** 223749-44-8**Origin** New Zealand**Extraction** Steam Distillation

Distinctive fresh, spicy, herbaceous odor with a honey-like sweetness

**MARJORAM***Origanum majorana***CAS** 8015-01-8**Origin** Egypt**Extraction** Steam Distillation

Warm, woody, spicy camphoraceous odor

**MELISSA (LEMON BALM)***Melissa officinalis***CAS** 8014-71-9**Origin** Bulgaria**Extraction** Steam Distillation

Light, fresh lemony odor



MUSTARD

Brassica nigra

CAS 57-06-7

Origin USA

Extraction Steam Distillation

Sharp, penetrating, acrid odor



MYRRH

Commiphora myrrha

CAS 8016-37-3

Origin Somalia

Extraction Steam Distillation

Warm, sweet-balsamic, slightly spicy-medicinal odor



MYRTLE

Myrtus communis

CAS 8008-46-6

Origin Tunisia

Extraction Steam Distillation

Fresh, camphoraceous, sweet-herbaceous odor somewhat similar to eucalyptus



NEEM

Azadirachta indica

CAS 8002-65-1

Origin India

Extraction Pressed

Strong, harsh, unpleasant, intense garlic-like odor,



NEROLI

Citrus aurantium

CAS 8016-38-4

Origin Egypt

Extraction Steam Distillation

Light, sweet-floral aroma with a terpeney top-note



NIAOULI

Melaleuca quinquenervia cineolifera

CAS 8014-68-4

Origin Madagascar

Extraction Steam Distillation

Sweet, fresh, camphoraceous odor



NUTMEG*Myristica fragrans*

CAS 8008-45-5

Origin India

Extraction Steam Distillation

Sweet, warm-spicy odor and a terpeney top-note

**BLOOD ORANGE***Citrus aurantium dulcis*

CAS 8028-48-6

Origin Italy

Extraction Cold Pressed

Sweet, orange, aldehydic and tangerine with a citrus, pulpy nuance

**ORANGE (BITTER, SWEET, 5X, 10X, VALENCIA)***Citrus sinensis, Citrus aurantium,*

CAS 68606-94-0

Origin Brazil, Italy, USA

Extraction Cold Pressed, Redistilled

Sinensis: Sweet, rich fresh fruity odor*Aurantium*: Fresh, dry, almost floral odor with a rich, sweet undertone**OREGANO***Origanum vulgare*

CAS 8007-11-2

Origin Hungary

Extraction Steam Distillation

Warm, spicy, herbaceous, camphoraceous odor

*Origanum* with minimum 70% carvacol is also available (CAS 84012-24-8).**PALMAROSA***Cymbopogon martinii*

CAS 8014-19-5

Origin India

Extraction Steam Distillation

Sweet, floral, rosy, geranium-like odor

**PATCHOULI***Pogostemon cablin*

CAS 8014-09-3

Origin India, Sri Lanka

Extraction Steam Distillation

Sweet, rich, herbaceous earthy odor - it improves with age



Light and dark varieties are available.



PEPPER, BLACK*Piper nigrum***CAS** 8006-82-4**Origin** India, Sri Lanka**Extraction** Steam Distillation

Fresh, dry-woody, warm, spicy odor

**PEPPERMINT***Mentha piperita***CAS** 8006-90-4**Origin** India, USA**Extraction** Steam Distillation

Highly penetrating, grassy-minty camphoraceous odor

**PETITGRAIN***Citrus aurantium***CAS** 8014-17-3**Origin** Paraguay**Extraction** Steam Distillation

Fresh-floral citrus odor with a woody-herbaceous undertone

**PINE NEEDLE***Pinus sylvestris***CAS** 8023-99-2**Origin** Hungary**Extraction** Steam Distillation

Strong, dry-balsamic, turpentine-like aroma

**RAVENSARA***Ravensara aromatica***CAS** 91770-56-8**Origin** Madagascar**Extraction** Steam Distillation

Sweet, fresh, lemony, licorice-like odor with an earthy undertone

**RAVINTSARA***Cinnamomum camphora***CAS** 8008-51-3**Origin** Madagascar**Extraction** Steam Distillation

Fresh, woody, slightly floral, balsamic, eucalyptus-like odor



ROSE, DAMASK

Rosa damascena

CAS 8007-01-0

Origin Bulgaria, Morocco

Extraction Solvent, Steam Distillation

Solvent: Rich, sweet, spicy-floral, tenacious odor.

Steam Distillation: Very rich, deep, sweet-floral, slightly spicy odor.



Rose water is also available.



ROSEMARY

Rosmarinus officinalis

CAS 8000-25-7

Origin Morocco, Tunisia

Extraction Steam Distillation

Strong, fresh, minty herbaceous aroma with a woody-balsamic undertone



SAGE, CLARY

Salvia sclarea

CAS 8016-63-5

Origin Egypt, France

Extraction Steam Distillation

Sweet, nutty herbaceous scent



SAGE, DALMATIAN

Salvia officinalis

CAS 8022-56-8

Origin Albania, Slovenia

Extraction Steam Distillation

Fresh, warm-spicy, herbaceous, slightly camphoraceous odor.



SANDALWOOD, AUSTRALIAN

Santalum spicatum

CAS 8024-35-9

Origin Australia

Extraction Steam Distillation

Deep, sweet-woody balsamic odor of excellent tenacity with a dry-bitter top note



SANDALWOOD, EAST INDIAN

Santalum album

CAS 8006-87-9

Origin East India

Extraction Steam Distillation

Deep, sweet-woody balsamic odor of excellent tenacity



CO₂ distillate extraction originating from Indonesia is also available.



SPEARMINT

Mentha spicata

CAS 8008-79-5

Origin China, USA

Extraction Steam Distillation

Warm, spicy-herbaceous, minty odor



Redistilled oil is also available.



SPEARMINT, SCOTCH

Mentha cardiaca (Mentha x gracilis)

CAS 91770-24-0

Origin USA

Extraction Steam Distillation

Warm, spicy-herbaceous, minty odor



SPRUCE, BLACK

Picea mariana

CAS 91722-19-9

Origin Canada

Extraction Steam Distillation

Crisp, fresh, forest-like aroma with an earthy base note



SPRUCE, WHITE

Picea glauca

CAS 8008-80-8

Origin Canada

Extraction Steam Distillation

Fresh, pine, woody camphor-like aroma with slightly sweet, fruity notes



TANGERINE

Citrus reticulata

CAS 8016-85-1

Origin United Kingdom, USA

Extraction Cold pressed

Fresh, sweet-tart, orange-like aroma, less body than mandarin oil



TARRAGON

Artemisia dracuncululus

CAS 8016-88-4

Origin USA

Extraction Steam Distillation

Sweet-anisic, spicy-green odor



TEA TREE

Melaleuca alternifolia

CAS 68647-73-4

Origin Australia, China, South Africa

Extraction Steam Distillation

Warm, fresh, spicy-camphoraceous odor



THYME, RED OR WHITE

Thymus vulgaris

CAS 8007-46-3

Origin Morocco, Spain

Extraction Steam Distillation

Red Thyme has a warm, spicy-herbaceous powerful odor

White Thyme has a sweet, green-fresh, milder odor



TURMERIC

Curcuma longa

CAS 84775-52-0

Origin Germany

Extraction CO₂

Fresh, spicy-woody odor



VETIVER

Vetiveria zizanioides

CAS 8016-96-4

Origin Haiti, Java, Sri Lanka

Extraction Steam Distillation

Deep smoky, earthy woody odor with a sweet persistent undertone



WINTERGREEN

Gaultheria procumbens

CAS 68917-75-9

Origin China, Nepal

Extraction Steam Distillation

Intense sweet-woody, almost fruity odor



WORMWOOD

Artemisia absinthium

CAS 8008-93-3

Origin USA

Extraction Steam Distillation

Spicy, warm, bitter-green odor and a sharp, fresh top note



YLANG YLANG

Cananga odorata

CAS 8006-81-3

Origin Madagascar

Extraction Fractional Distillation

Intensely sweet, soft, floral-balsamic, slightly spicy odor



I, II, III, and Extra varieties are also available.



DISCLAIMER

All information provided is for reference purposes only and is not intended to substitute the advice given by a pharmacist, physician, or any other licensed health-care professional. Lebermuth's products have not been evaluated by the FDA and are not intended to diagnose, treat, cure, or prevent any health condition or disease. The information provided is for personal information and interest only, and is not intended to offer professional medical advice or treatment for any condition. We recommend that you consult your health care provider if you have any health concerns.

We neither accept nor have liability for the misuse of essential oils or other products or for any reliance on the information provided by us on our website or elsewhere. Essential oils are highly concentrated and potent and it is important to always check the specific safety data provided. Treat all essential oils as flammable liquids. Actual product packaging and materials may contain different information than that which is shown on this website or elsewhere.

Keep essential oils in a secure place away from infants, children, elderly persons, pregnant women, and pets. Never take essential oils orally and avoid all contact with the mouth area and eyes. Never use an essential oil undiluted unless instructed to do so by your health care provider or a certified aromatherapist.

Since 1908, Lebermuth has been a leader in the Essential Oil, Fragrance, and Flavor industries.

Over a century of sensory experience.



The Lebermuth Company

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