# SAFETY DATA SHEET



1. Identification

Product identifier PHENYL ETHYL TIGLATE

Other means of identification

BRI Product Code 426

**CAS number** 55719-85-2 **FEMA number** 2870

Synonyms 2-Butenoic acid, 2-methyl-, 2-phenylethyl ester, (2E)- \* 2-Phenylethyl tiglate \* 2-Phenylethyl

trans-2,3-dimethylacrylate \* Benzylcarbinyl tiglate \* Phenethyl 2-methylcrotonate \* Phenethyl

tiglate \* Phenylethyl tiglate

Recommended use flavors and fragrances

For Manufacturing Use Only

Recommended restrictions 
Not for use in Tobacco or Nicotine delivery device applications and/or products.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name

Address

Bedoukian Research
6 Commerce Drive
Danbury, CT 06810

Danbury, CT 06810 United States

Telephone1-203-830-4000Websitewww.bedoukian.com

**E-mail** customerservice@bedoukian.com

Contact person Joseph Bania

Emergency phone number Chemtrec (North America) 1-800-424-9300

Chemtrec (International) 1-703-527-3887

2. Hazard(s) identification

Physical hazards Not classified.
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

Hazard statement The substance does not meet the criteria for classification.

**Precautionary statement** 

**Prevention** Observe good industrial hygiene practices.

Response Wash hands after handling.

**Storage** Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

**Substances** 

Material name: PHENYL ETHYL TIGLATE SDS US

**Chemical name CAS** number % Common name and synonyms PHENYL ETHYL TIGLATE 2-Butenoic acid, 2-methyl-, 2-phenylethyl 55719-85-2 100 ester, (2E)-2-Phenylethyl tiglate 2-Phenylethyl trans-2,3-dimethylacrylate Benzylcarbinyl tiglate Phenethyl 2-methylcrotonate Phenethyl tiglate Phenylethyl tiglate **Stabilizers** % Common name and synonyms **CAS** number Chemical name 10191-41-0 synthetic alpha tocopherol 0.1 \*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. Composition comments Occupational Exposure Limits for stabilizers are listed in Section 8. 4. First-aid measures Inhalation Move to fresh air. Call a physician if symptoms develop or persist. Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact Rinse with water. Get medical attention if irritation develops and persists. Eye contact Ingestion Rinse mouth. Get medical attention if symptoms occur. Direct contact with eyes may cause temporary irritation. Most important symptoms/effects, acute and delayed Treat symptomatically. Indication of immediate medical attention and special treatment needed Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information** protect themselves. 5. Fire-fighting measures Suitable extinguishing media Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire. media Specific hazards arising from During fire, gases hazardous to health may be formed. the chemical Special protective equipment Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters Move containers from fire area if you can do so without risk. Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, Keep unnecessary personnel away. For personal protection, see section 8 of the SDS. protective equipment and emergency procedures

Methods and materials for Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth containment and cleaning up and place into containers. Following product recovery, flush area with water.

> Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Recommended Packaging: Glass, Plastic, Aluminum or Phenolic Lined Steel. Store tightly sealed under inert gas in a cool, well-ventilated area.

#### 8. Exposure controls/personal protection

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove **Hand protection** 

supplier.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

## 9. Physical and chemical properties

**Appearance** 

Physical state Liquid. Color Colorless

heavy rose note. Odor **Odor threshold** Not available. Ha Not available. Melting point/freezing point Not available.

Initial boiling point and boiling

range

546.17 °F (285.65 °C) US EPA. 2014. Estimation Programs Interface Suite™ for Microsoft®

Windows, v 4.11. US EPA, Washington, DC, USA.

276 °F (136 °C) Closed Cup Flash point

**Evaporation rate** Not available. Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%) (%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

Vapor pressure

0.003 mmHg at 20°C; US EPA. 2014. Estimation Programs Interface Suite™ for Microsoft®

Windows, v 4.11. US EPA, Washington, DC, USA.

Vapor density 7.1 Relative to air; air = 1

Not available. Relative density

Solubility(ies)

Solubility (water) Not available.

3.89 US EPA. 2014. Estimation Programs Interface Suite™ for Microsoft® Windows, v 4.11. US Partition coefficient

EPA, Washington, DC, USA. (n-octanol/water)

Auto-ignition temperature Not available. **Decomposition temperature** Not available. Not available. Viscosity

Other information

**Density** 1.010 - 1.017 g/cm3

Flammability class Combustible IIIB estimated

Molecular formula C13H16O2 Molecular weight 204.26

Specific gravity 1.01 - 1.017 at 25°C

## 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

1000010110

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

InhalationNo adverse effects due to inhalation are expected.Skin contactNo adverse effects due to skin contact are expected.Eye contactDirect contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

## Information on toxicological effects

Acute toxicity

Product Species Test Results

PHENYL ETHYL TIGLATE (CAS 55719-85-2)

Acute Dermal

Liquid

LD50 Rabbit > 5000 mg/kg

**Oral** *Liquid* 

LD50 Rat > 5000 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Irritation Corrosion - Skin

PHENYL ETHYL TIGLATE 6 % Patch test, Vehicle Petrolatum.

Result: No irritation observed.

Species: Human Organ: Skin Notes: RIFM

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

Material name: PHENYL ETHYL TIGLATE

SDS US

426 Version #: 02 Revision date: 12-February-2019 Issue date: 17-May-2015

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Skin sensitization

PHENYL ETHYL TIGLATE 6 % Patch test, Vehicle Petrolatum.

Result: Not sensitizing. Species: Human Organ: Skin Notes: RIFM

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Germ cell mutagenicity: Ames test

PHENYL ETHYL TIGLATE < 500 µg/plate, Strains TA 1535, TA 1537, TA 1538, TA 98

and TA 100 with and without metabolic activation. Vehicle

Ethanol. Result for similar material Citronellyl

3-methyl-2-butenoate. Result: Not mutagenic.

Species: Salmonella typhimurium

Notes: RIFM

This product is not expected to cause reproductive or developmental effects.

< 5000 µg/plate Plate incorporation, Strains TA 1535, TA 1537, TA 98, and TA 100 with and without metabolic activation. Result for similar material Hexyl tiglate.

Result: Not mutagenic.

Species: Salmonella typhimurium

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

PHENYL ETHYL TIGLATE 3.89, US EPA. 2014. Estimation Programs Interface Suite™

for Microsoft® Windows, v 4.11. US EPA, Washington, DC,

USA.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

426 Version #: 02 Revision date: 12-February-2019 Issue date: 17-May-2015

Material name: PHENYL ETHYL TIGLATE

GLATE

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not established.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

**US** federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

(SDWA)

Not regulated.

#### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

Country(s) or region Inventory name On inventory (yes/no)\*

Taiwan Toxic Chemical Substances (TCS)

Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date 17-May-2015
Revision date 12-February-2019

Version # 02

**Disclaimer** Bedoukian Research cannot anticipate all conditions under which this information and its product,

or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in

the sheet was written based on the best knowledge and experience currently available.

**Revision information** Identification: Recommended restrictions

Material name: PHENYL ETHYL TIGLATE SDS US