

# Safety Data Sheet

acc. to OSHA HCS

## 1 Identification

- **Product identifier**
- **Trade name:** Cosmopolitan Flavor Extract
- **Article number:** 92.859
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
 OliveNation LLC  
 13 Robbie Road A4  
 Avon, MA 02322  
 USA  
 617-580-3667
- **Information department:** Regulatory Department
- **Emergency telephone number:**  
 During normal opening times: Call Chemtrec Day or Night  
 Domestic North America 800.424.9300/International 703.527.3887 (Collect calls accepted)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable Liquids 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carcinogenicity 1A H350 May cause cancer.



GHS07

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02



GHS07



GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
 ETHYL ALCOHOL  
 Lime oil  
 Orange essence oil  
 ORANGE OIL
- **Hazard statements**  
 Flammable liquid and vapor.  
 May cause an allergic skin reaction.

(Contd. on page 2)

# Safety Data Sheet

## acc. to OSHA HCS

**Trade name: Cosmopolitan Flavor Extract**

(Contd. of page 1)

*May cause cancer.*

· **Precautionary statements**

*Obtain special instructions before use.*

*Do not handle until all safety precautions have been read and understood.*

*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*

*Keep container tightly closed.*

*Ground/bond container and receiving equipment.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*Use only non-sparking tools.*

*Take precautionary measures against static discharge.*

*Avoid breathing dust/fume/gas/mist/vapors/spray*

*Contaminated work clothing must not be allowed out of the workplace.*

*Wear protective gloves/protective clothing/eye protection/face protection.*

*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*

*If exposed or concerned: Get medical advice/attention.*

*Specific treatment (see on this label).*

*If skin irritation or rash occurs: Get medical advice/attention.*

*Wash contaminated clothing before reuse.*

*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*

*Store in a well-ventilated place. Keep cool.*

*Store locked up.*

*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 0

Fire = 3

Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = \*1

Fire = 3

Reactivity = 0

· **Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

### 3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

57-55-6	PROPYLENE GLYCOL	>50-≤100%
	⚠ Acute Toxicity - Oral 4, H302	
64-17-5	ETHYL ALCOHOL	>10-≤25%
	⚠ Flammable Liquids 2, H225; ⚠ Carcinogenicity 1A, H350	
8008-26-2	Lime oil	≥0.1-<1%
	⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 2)

8028-48-6	Orange essence oil	≥0.1-<1%
	⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	
8008-57-9	ORANGE OIL	≥0.1-<1%
	⚠ Flammable Liquids 3, H226; ⚠ Aspiration Hazard 1, H304; ⚠ Skin Irritation 2, H315; Sensitization - Skin 1, H317	

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air and to be sure call for a doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

57-55-6	PROPYLENE GLYCOL	30 mg/m <sup>3</sup>
---------	------------------	----------------------

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 3)

64-17-5	ETHYL ALCOHOL	1,800 ppm
141-78-6	ETHYL ACETATE	1,200 ppm
140-11-4	BENZYL ACETATE	30 ppm
64-19-7	ACETIC ACID	5 ppm
141-97-9	ETHYL ACETOACETATE	12 mg/m <sup>3</sup>
100-52-7	BENZALDEHYDE	4 ppm
108-88-3	TOLUENE	67 ppm
71-43-2	BENZENE	52 ppm

· **PAC-2:**

57-55-6	PROPYLENE GLYCOL	1,300 mg/m <sup>3</sup>
64-17-5	ETHYL ALCOHOL	3300* ppm
141-78-6	ETHYL ACETATE	1,700 ppm
140-11-4	BENZYL ACETATE	330 ppm
64-19-7	ACETIC ACID	35 ppm
141-97-9	ETHYL ACETOACETATE	130 mg/m <sup>3</sup>
100-52-7	BENZALDEHYDE	43 mg/m <sup>3</sup>
108-88-3	TOLUENE	560 ppm
71-43-2	BENZENE	800 ppm

· **PAC-3:**

57-55-6	PROPYLENE GLYCOL	7,900 mg/m <sup>3</sup>
64-17-5	ETHYL ALCOHOL	15000* ppm
141-78-6	ETHYL ACETATE	10000** ppm
140-11-4	BENZYL ACETATE	2,000 ppm
64-19-7	ACETIC ACID	250 ppm
141-97-9	ETHYL ACETOACETATE	790 mg/m <sup>3</sup>
100-52-7	BENZALDEHYDE	260 mg/m <sup>3</sup>
108-88-3	TOLUENE	3700* ppm
71-43-2	BENZENE	4000* ppm

## 7 Handling and storage

· **Handling:**

· **Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a tightly sealed containers in a cool, dry place that is well ventilated. Away from heat, spark, and open flame.

(Contd. on page 5)

# Safety Data Sheet

## acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 4)

- **Information about storage in one common storage facility:** *Not required.*
- **Further information about storage conditions:** *Keep receptacle tightly sealed.*
- **Specific end use(s)** *No further relevant information available.*

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** *No further data; see section 7.*
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
*The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.*  
*At this time, the other constituents have no known exposure limits.*

#### 57-55-6 PROPYLENE GLYCOL

WEEL Long-term value: 10 mg/m<sup>3</sup>

#### 64-17-5 ETHYL ALCOHOL

PEL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 1900 mg/m<sup>3</sup>, 1000 ppm

TLV Short-term value: 1000 ppm  
A3

- **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
*Keep away from foodstuffs, beverages and feed.*  
*Immediately remove all soiled and contaminated clothing.*  
*Wash hands before breaks and at the end of work.*  
*Store protective clothing separately.*
- **Breathing equipment:**  
*In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.*
- **Protection of hands:**



Protective gloves

*The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.*  
*Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.*  
*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

- **Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

- **Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Trade name: *Cosmopolitan Flavor Extract*

(Contd. of page 5)

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid  
Color: According to product specification

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· **Flash point:** 37.8 °C (100 °F)

· **Flammability:** Flammable.

· **Auto igniting:** 371 °C (699.8 °F)

· **Decomposition temperature:** Not determined.

· **Ignition temperature:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 2.6 Vol %

Upper: 15 Vol %

· **Vapor pressure at 20 °C (68 °F):** 59 hPa (44.3 mm Hg)

· **Density at 20 °C (68 °F):** 1.00495 g/cm<sup>3</sup> (8.38631 lbs/gal)

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

· **Solvent content:**

Organic solvents: 74.3 %

Water: 23.3 %

(Contd. on page 7)

# Safety Data Sheet

## acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 6)

<b>VOC content:</b>	74.34 % 747.1 g/l / 6.23 lb/gal
<b>Solids content:</b>	0.1 %
<b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>57-55-6 PROPYLENE GLYCOL</b>		
Dermal	LD50	20,800 mg/kg (rabbit)
<b>64-17-5 ETHYL ALCOHOL</b>		
Inhalative	LC50/4 h	20,000 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer)**  
Ethyl alcohol causes cancer when used in alcoholic beverages per IARC guidelines.

64-17-5	ETHYL ALCOHOL	1
140-11-4	BENZYL ACETATE	3
108-88-3	TOLUENE	3
71-43-2	BENZENE	1

- **NTP (National Toxicology Program)**

71-43-2	BENZENE	K
---------	---------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	BENZENE	
---------	---------	--

US

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Trade name: *Cosmopolitan Flavor Extract*

(Contd. of page 7)


## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- |   |                             |
|---|-----------------------------|
| · <b>UN-Number</b>  |                             |
| · <b>DOT, IMDG, IATA</b>  | UN1197                      |
| · <b>UN proper shipping name</b>  |                             |
| · <b>DOT</b>  | Extracts, flavoring, liquid |
| · <b>IMDG</b>   | EXTRACTS, LIQUID            |
| · <b>IATA</b>   | Extracts, liquid            |
| · <b>Transport hazard class(es)</b>   |                             |
| · <b>DOT</b>  |                             |
|  |                             |
| · <b>Class</b>  | 3 Flammable liquids         |
| · <b>Label</b>  | 3                           |

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 8)

· **IMDG, IATA**



· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**  
 · **DOT, IMDG, IATA** III

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Flammable liquids  
 · **Hazard identification number (Kemler code):** 30  
 · **EMS Number:** F-E,S-D  
 · **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**  
 · **Quantity limitations** On passenger aircraft/rail: 60 L  
 On cargo aircraft only: 220 L

· **IMDG**  
 · **Limited quantities (LQ)** 5L  
 · **Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1197 EXTRACTS, LIQUID, 3, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 · **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

108-88-3 TOLUENE

71-43-2 BENZENE

· **TSCA (Toxic Substances Control Act):** All substances are active or exempt.

· **Hazardous Air Pollutants**

108-88-3 TOLUENE

71-43-2 BENZENE

· **Proposition 65**

· **Chemicals known to cause cancer:**

Ethyl alcohol causes cancer when used in alcoholic beverages per OEHHA guidelines.

71-43-2 BENZENE

(Contd. on page 10)

# Safety Data Sheet

acc. to OSHA HCS

**Trade name:** *Cosmopolitan Flavor Extract*

(Contd. of page 9)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

71-43-2 BENZENE

· **Chemicals known to cause developmental toxicity:**

64-17-5 ETHYL ALCOHOL

108-88-3 TOLUENE

71-43-2 BENZENE

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-88-3 TOLUENE

II

71-43-2 BENZENE

A, K/L

· **TLV (Threshold Limit Value)**

64-17-5 ETHYL ALCOHOL

A3

140-11-4 BENZYL ACETATE

A4

108-88-3 TOLUENE

A4

71-43-2 BENZENE

A1

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

71-43-2 BENZENE

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02



GHS07



GHS08

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

ETHYL ALCOHOL

Lime oil

Orange essence oil

ORANGE OIL

· **Hazard statements**

Flammable liquid and vapor.

May cause an allergic skin reaction.

May cause cancer.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing must not be allowed out of the workplace.

(Contd. on page 11)

# Safety Data Sheet

## acc. to OSHA HCS

**Trade name: Cosmopolitan Flavor Extract**

(Contd. of page 10)

*Wear protective gloves/protective clothing/eye protection/face protection.*  
*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Specific treatment (see on this label).*  
*If skin irritation or rash occurs: Get medical advice/attention.*  
*Wash contaminated clothing before reuse.*  
*In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.*  
*Store in a well-ventilated place. Keep cool.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **National regulations:**

· **Information about limitation of use:**

*Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.*  
*Exceptions can be made by the authorities in certain cases.*

· **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: very Persistent and very Bioaccumulative  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Flammable Liquids 2: Flammable liquids – Category 2  
 Flammable Liquids 3: Flammable liquids – Category 3  
 Acute Toxicity - Oral 4: Acute toxicity – Category 4  
 Skin Irritation 2: Skin corrosion/irritation – Category 2  
 Sensitization - Skin 1: Skin sensitisation – Category 1  
 Carcinogenicity 1A: Carcinogenicity – Category 1A  
 Aspiration Hazard 1: Aspiration hazard – Category 1

· **\* Data compared to the previous version altered.**