


### 1 Identification of substance

- 1 **Product details** Garlic oil 1109 Vitlök
- 2 **CAS number:** 8008-99-9
- 3 **EINECS number:** 232-371-1
- 4 **Utilization:** Cosmetics, aroma therapy, food, flavours
- 5 **Manufacturer / Supplier:**  
Naturkosmetikkompaniet AB  
Ullevi Enestorp 3  
59491 Gamleby
- 6 **Information department:**  
Tel. 0493-53999 Fax. 0493-12630  
info@naturkosmetikkompaniet.se  
www.kosmetikkompaniet.se

### 2 Hazards identification

#### Pictograms, signal words, hazard statements and precautionary statements

67/548/EGK, 1999/45/EK (Kbtv., 44/2000 Eüm r.)	CLP -Regulation (EC) No 1272/2008 Pictograms, and signal words	Hazard statements	Precautionary statements		
			Physical	Health	Environmental
	GHS02  Warning	H226	P210 P233 P240 P241 P242 P243 P280	P303 P361 P353 P370 P378	P403 P235 + P501

#### 2 Nature of special risks attributed to dangerous substances and preparations: R-phrases and hazard statements

R 10 Flammable H226 Flammable

### 3 Composition/Data on components

- 1 **Chemical characterization** Garlic oil
- 2 **Dangerous components:**
- | Component name | IUPAC name | CAS number | EINECS number | %       | Symbol(s) | R- and S-phrases |
|----------------|------------|------------|---------------|---------|-----------|------------------|
| Garlic oil     |            | 8000-78-0  | 232-371-1     | 100,00% | Xn        | R22 R38          |
| -              |            |            |               |         |           |                  |
| -              |            |            |               |         |           |                  |
| -              |            |            |               |         |           |                  |
| -              |            |            |               |         |           |                  |
| -              |            |            |               |         |           |                  |

### 4 First aid measures

- 1 **After inhalation:**  
Supply fresh air and to be sure call for a doctor.
- 2 **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.
- 3 **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
If swallowed, rinse mouth with water (only if the person is conscious)

## 5 Fire fighting measures

- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder.
- **For safety reasons unsuitable extinguishing agents:**
  - Water
  - Water with full jet
- **Protective equipment:** Mount respiratory protective device.

## 6 Accidental release measures

- 1 • **Person-related safety precautions:**
  - Wear protective equipment. Keep unprotected persons away.
- 2 • **Measures for environmental protection:**
  - Prevent seepage into sewage system, workpits and cellars.
  - Ensure adequate ventilation.
  - Do not allow to enter sewers/ surface or ground water.
- 3 • **Measures for cleaning/collecting:**
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  - Dispose contaminated material as waste according to item 13.
  - Do not flush with water or aqueous cleansing agents

## 7 Handling and storage

### 1 Handling

- **Information for safe handling:**
  - Ensure good ventilation/exhaustion at the workplace.
- **When using do not eat or drink**
- **Information about protection against explosions and fires:**
  - When using do not smoke
  - Keep ignition sources away
  - Protect against electrostatic charges.

### 2 Storage

- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
  - Keep away from heat
  - Keep away from sources of ignition - No smoking

## 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Personal protective equipment:**
- 1 • **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.
  - Avoid contact with the eyes and skin.
  - Take precautionary measures against static discharges
- 2 • **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.
- 3 • **Protection of hands:**
- 4 • **Eye protection:**
  - Tightly sealed goggles

## 9 Physical and chemical properties

- **Form:** Fluid
- **Color:** According to product specification
- **Odor:** Characteristic
- **Change in condition**
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: n.a. °C
- **Flash point:** 54 °C
- **Ignition temperature:** n.a. °C
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
- **Explosion limits:**
  - Lower:
  - Upper:
- **Vapor pressure at 20°C**
- **Density at 20°C (68°F):**
- **Solubility in / Miscibility with**
  - Water: Not miscible or difficult to mix.
- **pH-value at 20°C (68°F):** n.a.
- **Solvent content:**
  - Organic solvents: 0 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** **No dangerous reactions known.**
- **Dangerous products of decomposition:** No dangerous decomposition products known.

## 11 Toxicological information

- **Acute toxicity:**
- **LD/Lc50 values that are relevant for classification:**  
8008-99-9 Garlic oil
- **Oral LD50** 1360 mg/kg (rat)
- **Dermal LD50** 850 mg/kg (rbt)
- **Primary irritant effect:**
- **on the skin:**
- **on the eye:**
- **Sensitization:**
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:

## 12 Ecological information

- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
Do not empty into drains; dispose of this material and its container in a safe way

## 13 Disposal considerations

- **Product:** Garlic oil
- **Recommendation:**  
Do not empty into drains  
Dispose of this material and its container to hazardous or special waste collection point  
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.

EWC: 13 08 99

## 14 Transport information

· DOT regulations:

· Hazard class: 3



· Identification number: UN1169

· Packing group:

· Land transport ADR/RID (cross-border):

· ADR/RID class: 3  
 · Label: 3  
 · Packaging group: III  
 · UN-Number: UN1169  
 · Proper shipping name: Extracts, Aromatic , Liquid

· Maritime transport IMDG:

· IMDG Class: 3  
 · Label: 3  
 · UN Number: UN1169  
 · Packaging group: III  
 · EMS Number:  
 · Marine pollutant: No  
 · Proper shipping name: Extracts, Aromatic , Liquid

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA: 3  
 · Label: 3  
 · UN/ID Number: UN1169  
 · Packaging group: III  
 · Proper shipping name: Extracts, Aromatic , Liquid

## 15 Regulations

· Product related hazard informations:

*The product has been classified and marked in accordance with EU Classification (671548/EEC-8813791EEC) 1907/2006, 1272/2008 and 453/2010/EC*

· Hazard symbols:

GHS02



Warning

· Hazard-determining components of labelling:

· Risk phrases:

R 10 Flammable

· Hazard statements:

H226 Flammable liquid and vapour

· Safety phrases:

S 29 Do not empty into drains  
 S 43 In case of fire, use CO<sub>2</sub>, sand, or extinguishing powder  
 S 56 Dispose of this material and its container to hazardous or special waste collection point  
 S 64 If swallowed, rinse mouth with water (only if the person is conscious)

· Precautionary statements:

EN

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking.  
 P233 Keep container tightly closed.  
 P235 Keep cool.  
 P240 Ground/bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P303 IF ON SKIN (or hair):  
 P353 Rinse skin with water/shower.  
 P361 Remove/Take off immediately all contaminated clothing.  
 P370 In case of fire:  
 P378 Use ... for extinction.  
 P403 Store in a well-ventilated place.  
 P501 Dispose of contents/container to ...

· Special labeling of certain

· Water hazard class:

**16 Other information**

**A list of reference resources used to assist the committee may be found at:**

RTECS - Registry of Toxic Effects of Chemical Substances; OHMTADS - Oil and Hazardous Materials - Technical Assistance Data System