

# MATERIAL SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**A. GHS product identifier** POLA FAMILY MODERN VENT CLIP TYPE LEMON SQUASH

**B. Recommended use of the chemical and restrictions on use**

**Recommended use** Air freshener for car air vents

**Restrictions on use** Use only as intended

**C. Manufacturers**

**Company name** Bullsone

**Address** 7F, Dabong Tower, 418, Teheran-roGangnam-gu, Seoul, 135-839, Korea

**Emergency phone number** 822-2106-7777

**Respondent** Han Dong Jin

**Fax** 822-2106-7911

## 2. Hazards identification

**A. GHS classification of the substance/mixture**

Skin sensitization : Category 1

Hazardous to the aquatic environment (chronic) : Category 2

**B. GHS label elements, including precautionary statements**

**Pictogram and symbol :**



**Signal word :**Warning

**Hazard statements :**

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Precaution**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Treatment**

P302+P352 If on skin: Wash with plenty of soap and water.

P321 Actions by referring to the first aid instructions on the additional label.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

**Storage :**Avoid exposure to extreme temperatures. Avoid prolonged contact with certain plastic materials (PVC)

**Disposal**

P501 Dispose the contents/container in accordance with local/regional/national/international regulations.

**C. Other hazard information not included in hazard classification (NFPA)**

**Health** 2

**Flammability** 1

**Reactivity** Not available

### 3. Composition/information on ingredients

Chemical Name	Common Name(Synonyms)	CAS number	EC number	Content (%)
Fragrance	Alkanes, C11-15-iso- (CAS No. 90622-58-5) + $\alpha$ -hexylcinnamaldehyde(CAS No. 101-86-0) +(R)-p-mentha-1,8-diene( CAS No. 5989-27-5) +decanal(CAS No. 112-31-2) +citral(CAS No. 5392-40-5) +2-tert-butylcyclohexyl acetate(CAS No. 88-41-5) +linalool(CAS No. 78-70-6) +pin-2(3)-ene(CAS No. 80-56-8) +2-(4-tert-butylbenzyl)propionaldehyde(CAS No. 80-54-6) +3a,4,5,6,7,7a-hexahydro-4,7-methano-1H-indenyl acetate(CAS No. 54830-99-8) +p-mentha-1,4(8)-diene(CAS No. 586-62-9) +octanal(CAS No. 124-13-0) +allylhexanoate(CAS No. 123-68-2) +L-menthol(CAS No. 2216-51-5) +dipentene(CAS No. 138-86-3) +undec-10-enal(CAS No. 112-45-8) +citronellal(CAS No. 106-23-0) +1-(2,6,6-trimethyl-3-cyclohexen-1-yl)-2-buten-1-one(CAS No. 57378-68-4) +p-mentha-1,3-diene(CAS No. 99-86-5) +geraniol(CAS No. 106-24-1) +pin-2(10)-ene(CAS No. 127-91-3) +p-cymene(CAS No. 99-87-6) +camphene(CAS No. 79-92-5) +citronellol(CAS No. 106-22-9) +Octanoic acid(CAS No. 124-07-2)			100 %

### 4. First aid measures

#### A. Eye contact

- Call emergency medical service.
- Call emergency medical service.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

#### B. Skin contact

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

- If skin irritation or rash occurs: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- Wash contaminated clothing before reuse.
- For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.
- For hot product, immediately immerse in or flush the affected area with large amounts of cold water to dissipate heat.
- Call emergency medical service.
- Call emergency medical service.
- Remove and isolate contaminated clothing and shoes.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
- For minor skin contact, avoid spreading material on unaffected skin.
- For minor skin contact, avoid spreading material on unaffected skin.

#### **C. Inhalation**

- Move victim to fresh air.
- Move victim to fresh air.
- Give artificial respiration if victim is not breathing.
- Give artificial respiration if victim is not breathing.
- Administer oxygen if breathing is difficult.
- Administer oxygen if breathing is difficult.
- Keep victim warm and quiet.
- Keep victim warm and quiet.

#### **D. Ingestion**

- Call emergency medical service.
- Call emergency medical service.

#### **E. Indication of immediate medical attention and notes for physician**

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## **5. Fire fighting measures**

#### **A. Suitable (and unsuitable) extinguishing media**

- Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
- Use dry sand or earth to smother fire.

#### **B. Specific hazards arising from the chemical**

- Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning
- Containers may explode when heated.
- Some of these materials may burn, but none ignite readily.
- Non-combustible, substance itself does not burn but may decompose upon heating, then produce corrosive and/or toxic fumes.

#### **C. Special protective equipment and precautions for fire-fighters**

- Rescuers should put on appropriate protective gear.
- Evacuate area and fight fire from a safe distance.
- Substance may be transported in a molten form.
- Some may be transported hot.
- Dike fire-control water for later disposal; do not scatter the material.
- Move containers from fire area if you can do it without risk.
- Fire involving Tanks; Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Fire involving Tanks; Cool containers with flooding quantities of water until well after fire is out.

- Fire involving Tanks; Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
- Fire involving Tanks; Always stay away from tanks engulfed in fire.
- Fire involving Tanks; For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

## 6. Accidental release measures

### A. Personal precautions, protective equipment and emergency procedures

- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Clean up spills immediately, observing precautions in Protective Equipment section.
- Clean up spills immediately, observing precautions in Protective Equipment section.
- Eliminate all ignition sources.
- Eliminate all ignition sources.
- Stop leak if you can do it without risk.
- Stop leak if you can do it without risk.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Cover with plastic sheet to prevent spreading.
- Cover with plastic sheet to prevent spreading.
- Prevent dust cloud.
- Prevent dust cloud.
- Please note that there are materials and conditions to avoid.
- Please note that there are materials and conditions to avoid.

### B. Environmental precautions and protective procedures

- Avoid release to the environment.
- Avoid release to the environment.
- Prevent entry into waterways, sewers, basements or confined areas.
- Prevent entry into waterways, sewers, basements or confined areas.

### C. The methods of purification and removal

- Collect spillage.
- Collect spillage.
- Absorb spills with inert material (e.g., dry sand or earth), then place in a chemical waste container.
- Absorb spills with inert material (e.g., dry sand or earth), then place in a chemical waste container.
- Absorb the liquid and scrub the area with detergent and water.
- Absorb the liquid and scrub the area with detergent and water.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- Large Spill; Dike far ahead of liquid spill for later disposal.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
- With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
- Powder Spill; Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Powder Spill; Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry.
- Small Spill; Take up with sand or other non-combustible absorbent material and place into containers for later disposal.
- Small Spill; Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

## 7. Handling and storage

### A. Precautions for safe handling

- Avoid breathing dust/fume/gas/mist/vapours/spray.

- Wash ... thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Follow all MSDS/label precautions even after container is emptied because they may retain product residues.
- Avoid prolonged or repeated contact with skin.
- Please note that there are materials and conditions to avoid.
- Please work with reference to engineering controls and personal protective equipment.
- Be careful to high temperature.

#### **B. Conditions for safe storage**

- Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

## **8. Exposure controls/personal protection**

### **A. Occupational Exposure limits**

**Korea regulation** : Not available

#### **ACGIH regulation**

**Fragrance** CAS No. 5392-40-5; TWA = 5ppm/ CAS No. 80-56-8; TWA = 20 ppm/ CAS No. 127-91-3; TWA = 20 ppm

**Biological exposure index** : Not available

**OSHA regulation** : Not available

**NIOSH regulation** : Not available

**EU regulation** : Not available

**Other** : Not available

### **B. Appropriate engineering controls**

- Facilities for storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **C. Personal protective equipment**

#### **Respiratory protection**

- Wear NIOSH or European Standard EN 149 approved full or half face piece (with goggles) respiratory protective equipment when necessary.
- In case exposed to gaseous/liquid material, the respiratory protective equipments as follow are recommended. escape full facepiece gas mask (of use for acid gas, in case of acid gas for organic compounds) or escape half facepiece gas mask (of use for acid gas, in case of acid gas for organic compounds) or direct full facepiece gas mask (of use for acid gas, in case of acid gas for organic compounds) half facepiece gas mask (of use for acid gas, in case of acid gas for organic compounds) or powered air-purifying gas mask.
- In lack of oxygen(< 19.5%), wear the supplied-air respirator or self-contained breathing apparatus.oxygen

#### **Eye protection**

- Wear enclosed safety goggles to protect from gaseous state organic material causing eye irritation or other disorder.
- An eye wash unit and safety shower station should be available nearby work place.

#### **Hand protection**

- Wear appropriate protective gloves by considering physical and chemical properties of chemicals.

#### **Body protection**

- Wear appropriate protective clothing by considering physical and chemical properties of chemicals.

## **9. Physical and chemical properties**

### **A. Appearance**

**Description** Liquid

**Color** Colorless To Pale Yellow

- B. Odor** Characteristic
- C. Odor threshold** Not available
- D. pH** Not available
- E. Melting point/freezing point** Not available
- F. Initial boiling point and boiling range** > 35 °C
- G. Flash point** 61 °C
- H. Evaporation rate** Not available
- I. Flammability (solid, gas)** Not applicable
- J. Upper/lower flammability or explosive limits** Not available
- K. Vapor pressure** Not available
- L. Solubility (ies)** Not available
- M. Vapor density** Not available
- N. Specific gravity** 0.8770~0.8970(20°C)
- O. Partition coefficient: n-octanol/water** Not available
- P. Auto ignition temperature** Not determined
- Q. Decomposition temperature** Not determined
- R. Viscosity** Not available
- S. Molecular weight** Not available

## 10. Stability and reactivity

- A. Chemical stability and Possibility of hazardous reactions:**
  - Containers may explode when heated.
  - Some of these materials may burn, but none ignite readily.
  - Non-combustible, substance itself does not burn but may decompose upon heating, then produce corrosive and/or toxic fumes.
  - Fire will produce irritating, corrosive and/or toxic gases.
- B. Conditions to avoid:**
  - Heat, sparks or flames
- C. Incompatible materials:**
  - Combustibles, reducing agents
- D. Hazardous decomposition products:**
  - Material may produce irritating and highly toxic gases from decomposition by heat and combustion during burning
  - Corrosive and/or toxic fume
  - Irritating and/or toxic gases

## 11. Toxicological information

- A. Information of Health Hazardous:**
  - Acute toxicity**
    - Oral** [Not classified] (ATEmix = 7,753 mg/kg bw)
      - **Fragrance** : LD<sub>50</sub> = 7,753 mg/kg
    - Dermal** [Not classified] (ATEmix = 13,500 mg/kg bw)
      - **Fragrance** : LD<sub>50</sub> = 13,500 mg/kg
    - Inhalation** [Not classified]
    - Skin corrosion/ irritation** [null]
    - Serious eye damage/ irritation** [null]
    - Respiratory sensitization** [Not available]
    - Skin sensitization** [Category 1]
    - Carcinogenicity** [Not classified]
      - KOREA-ISHL, IARC, NTP, OSHA, ACGIH, EU Regulation 1272/2008: not listed
    - Mutagenicity** [Not available]
    - Reproductive toxicity** [Not available]
    - Specific target organ toxicity (single exposure)** [Not available]

**Specific target organ toxicity (repeat exposure)** [Not available]  
**Aspiration Hazard** [Not available]

## 12. Ecological information

### A. Ecological toxicity

- Acute toxicity : [Not available]
- Chronic toxicity : [Category 2]
- Fish** Not available
- crustacean** Not available
- Algae** Not available

### B. Persistence and degradability

- Persistence** Not available
- Degradability** Not available

### C. Bioaccumulative potential

- Bioaccumulation** Not available
- Biodegradation** Not available

### D. Mobility in soil

Not available

### E. Other hazardous effect

Not available

## 13. Disposal considerations

### A. Disposal method

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### B. Disposal precaution

- Consider the required attentions in accordance with waste treatment management regulation.

## 14. Transport information

### A. UN Number

3082

### B. UN Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### C. Transport Hazard class

9

### D. Packing group

III

### E. Marine pollutant

YES

### F. Special precautions

in case of fire F-A

in case of leakage S-F

## 15. Regulatory information

### A. Occupational Safety and Health Regulation

Not regulated

### B. Toxic Chemical Control Act

**Fragrance** : Existing Chemical Substance CAS No. 90622-58-5: KE-00533/ CAS No. 101-86-0: KE-28401/ CAS No. 5989-27-5: KE-24397/ CAS No. 112-31-2: KE-09398/ CAS No. 5392-40-5: KE-11579/ CAS No. 88-41-5: KE-04259/ CAS No. 78-70-6: KE-11592/ CAS No. 80-56-8: KE-34427/ CAS No. 80-54-6: KE-11394/ CAS No. 586-62-9: KE-22415/ CAS No. 124-13-0: KE-26609/ CAS No. 123-68-2: KE-19809/ CAS No. 138-86-3: KE-24396/ CAS No. 112-45-8: KE-35080/ CAS No. 106-23-0: KE-11656/ CAS No. 57378-68-4: KE-34474/ CAS No. 99-86-5: KE-24404/ CAS No. 106-24-1: KE-11596/ CAS No. 127-91-3: KE-11518/ CAS No. 99-87-6: KE-21748/ CAS No. 79-92-5: KE-11517/ CAS No. 106-22-9: KE-11671/ CAS No. 124-07-2: KE-26628

**Fragrance** :Non-Toxic Chemicals CAS No.54830-99-8; 2010-3-4760/ CAS No.2216-51-5; 2003-3-2348

**C. Dangerous Material Safety Management Regulation**

**Fragrance** : Dangerous Material Safety Management Regulation CAS No.101-86-0;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.112-31-2;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.5392-40-5;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.78-70-6;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.80-54-6;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.124-13-0;Petroleum class 4-2 (non-water soluble liquid) 1000ℓ/CAS No.123-68-2;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.2216-51-5;Non-dangerous goods/CAS No.138-86-3;Petroleum class 4-2 (non-water soluble liquid) 1000ℓ/CAS No.112-45-8;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.106-23-0;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.106-24-1;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.99-87-6;Petroleum class 4-2 (non-water soluble liquid) 1000ℓ/CAS No.106-22-9;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ/CAS No.124-07-2;Petroleum class 4-3 (non-water soluble liquid) 2000ℓ

**D. Wastes Control Act** Not regulated

**E. Other regulation (internal and external)**

**Internal information**

**Persistent Organic Pollutants Acts** Not regulated

**External information**

**EU classification(classification)** Not regulated

**EU classification(risk phrases)** Not regulated

**EU classification(safety phrases)** Not regulated

**EU SVHC list** Not regulated

**EU Authorisation List** Not regulated

**EU Restriction list** Not regulated

**U.S.A management information (OSHA Regulation)** Not regulated

**U.S.A management information (CERCLA Regulation)** Not regulated

**U.S.A management information (EPCRA 302 Regulation)** Not regulated

**U.S.A management information (EPCRA 304 Regulation)** Not regulated

**U.S.A management information (EPCRA 313 Regulation)** Not regulated

**Substance of Roterdame Protocol** Not regulated

**Substance of Stockholme Protocol** Not regulated

**Substance of Montreal Protocol** Not regulated

**Foreign Inventory Status**

## 16. Other information

**A. Information source and references**

Waste Control Act enforcement regulation attached [1]

Emergency Response Guidebook 2008;

[http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/erg2008\\_eng.pdf](http://phmsa.dot.gov/staticfiles/PHMSA/DownloadableFiles/Files/erg2008_eng.pdf)

Korea Occupational Health & Safety Agency; <http://www.kosha.net>

National Chemicals Information System; <http://ncis.nier.go.kr/ncis/>

National Emergency Management Agency-Korea dangerous material inventory management system;

<http://www.nema.go.kr/hazmat/main/main.jsp>

UN Recommendations on the transport of dangerous goods 17th

Waste Control Act enforcement regulation attached [1]

**B. Issuing date** 2014.01.08.

**C. Revision number and date**

**revision number** 1

**date of the latest revision** 2014.07.16

**D. Others**

- Revised Material Safety Data Sheet based on the amendments made on the Ministry of Employment and Labor Public Notice on Standard for Classification Labeling of Chemical Substance and Material Safety Data Sheet.

- This MSDS is authored in pursuant to the Article 41 of the Occupational Safety and Health Act.

- The content is based on the latest information and knowledge that we currently possess.



•This MSDS was authored to aid buyer, processor or any other third person who handles the chemical of subject in the MSDS; additionally, it does not warrant suitability of the chemical for special purposes or the commercial use of statements that approves the use of it in combination with other chemicals as well as technical or legal liabilities.