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Material Safety Data Sheet

Product Emergency Phone Numbers: Jasu +(1) 305 699 4113

Product Code/Origin Date: 2217/26H20

Section I - Product Identifier

1.1 Product Identifier

Trade name: Grapefruit Aroma

CAS 8028-48-46

1.2. Relevant identified uses of the substance or mixture and uses advised against

No further relevant information is available.

Application of the substance / the mixture

Flavors/Fragrances

1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier:

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Section II - Hazards Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| | |
|---------------------------------------|--------------------------------------|
| Flammable Liquid, Category 2. | H225 Flammable liquid and vapor. |
| Skin Corrosion/Irritation, Category 2 | H320 Causes eye irritation. |
| Specific target organ toxicity, 3 | H335 May cause an allergic reaction. |
| Aquatic Chronic, Category 1 | H400 Toxic to aquatic life. |

2.2. Label elements

Labeling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS09

Signal word: Danger

Hazard statements

H225 Flammable liquid and vapor.
H315 Causes skin irritation.
H320 Cause an allergic eye irritation.
H335 May irritate respiratory tract.
H440 Very toxic to aquatic organisms.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233 Keep container tightly closed.
P240 Connect to earth/ equipotential bonding of the container and the receiving equipment.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P242 Use non.sparkling tools.
P243 Take precautionary measures against electrostatic discharge.

P280 Wear gloves, clothes/ glasses /protection mask.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P370+P378 IN CASE OF FIRE: Use dry sand, dry chemical powder, alcohol resistant foam to shut it off.

P403+P235 Store in a well ventilated place.

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

2.3 Other hazards Can cause dry skin.

- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

Section III - Composition/information of ingredients

3.1 Chemical characterization: Substances

Description: Mixture of substances listed below with nonhazardous additions.

CAS 8028-48-46

| Dangerous Components | |
|----------------------|--|
| CAS: 5989-27-5 | (R)-p-mentha-1,8-diene |
| EINECS: 227-813-5 | Flam. Liq. 3, H226; Asp. Tox. 1, H304; Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317 |
| CAS 123-35-3 | Myrcene |
| EINECS 204-622-5 | FL 3;AH 1;SCI 2;EDI 2A H226,H304,H315,H319 |
| CAS 98-55-5 | alpha-Terpineol |
| EINECS 202-680-6 | FL 4;ATO 5(4300);SCI 2;EDI 2A;EH A2 H227,H303,H315,H319,H401 |
| CAS 80-56-8 | alpha-Pinene |
| EINECS 201-291-9 | FL 3;ATO 5(3500);SCI 2;SS 1B;AH 1 H226,H303,H304,H315,H317 |

Section IV - Firsts aid measures

4.1 Description of first aid measures

- General information:

If a health disorder happens, call for medical help immediately.

Eyes: Remove contact lenses at once. Flush with water for at least 15 minutes. If irritation persists, seek medical attention.

Skin: Wash the affected area with copious amounts of soap and water. If irritation develops, seek medical attention.

Ingestion: Seek medical attention immediately. Do not leave the victim unattended.

Inhalation: If symptoms of overexposure are experienced, evacuate to fresh air. If symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information is available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information is available.

Section V - Fire fighting measures

5.1 Extinguishing media: Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2 Special hazards arising from the substance or mixture: In case of fire, the following can be released: Carbon monoxide (CO)

Carbon dioxide (CO2)

Smoke and soot

5.3 Advice for firefighters: Protective equipment: No special measures required.

Section VI - Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures: Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Do not allow product to reach the sewage system or any water course. Do not allow to enter sewers/ surface or groundwater.

6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

6.4 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.

Section VII - Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. Prevent the formation of aerosols.

7.2 Conditions for safe storage, including any incompatibilities Storage: Store in sprinklered warehouse in cool, dry conditions in well-sealed receptacles. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

Section VIII - Exposure control / personal protection

Additional information about the design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: The lists valid during the making were used as a basis.

8.2 Exposure control

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. Avoid contact with the skin. Avoid contact with the eyes and skin.

Respiratory protection: In case of brief exposure or low pollution use a respiratory filter device. In case of intensive or longer exposure use a self- contained respiratory protective device.

Protection of hands: 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.

The material of gloves: The selection of 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.

Eye protection: Tightly sealed goggles.

Section IX – Physical and chemical properties

Physicochemical Characteristics

| Parameter | min. | max. | Unit |
|------------------------------------|-------|-------|---------|
| Microbiological Data | | | |
| Aldehyde | 0.80 | 2.5 | % (w/w) |
| Optical Rotation (25 ° C) | 0.01 | 0.15 | ° |
| Specific Gravity / Density (20 °C) | 0.90 | 0.99 | g/ml |
| Refractive Index (20 °C) | 1.332 | 1.340 | ° |

Sensorial Characteristics

| Parameter | Result |
|---------------------|--|
| Appearance (visual) | Free from defects affecting the appearance |
| Odor (Smell) | Citrus aroma/Equal to standard |
| Color | Colorless |
| Water Solubility | Insoluble |

Section X – Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Thermal decomposition/conditions to be avoided: Heating causes vaporization and the formation of an ignitable atmosphere are possible.

10.3 Possibility of hazardous reactions **Formation of the explosive gas mixture with air possible:** Product is not self-igniting; but in case of unpropitious storing conditions (air admission, heat accumulation) self-ignition is possible for moistened solids (e.g. cloth, pulp, filter panels, binder). Reacts violently with oxidizing agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products expected by intended use.

Section XI: Toxicological information

11.1 Information on toxicological effects: Acute toxicity based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Sensitisation: May cause an allergic skin reaction.

Acute effects (acute toxicity, irritation, and corrosivity): Aspiration may cause lung damages.

CMR effects (carcinogenicity, mutagenicity, and toxicity for reproduction)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters the airways.

Section XII: Ecological information

12.1 Toxicity Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Ecotoxic effects: Remark: Very toxic for fish

Additional ecological information:

General notes: (Self-assessment): extremely hazardous for water. Do not allow products to reach groundwater, water courses, or sewage systems, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms.

12.5 Results of PBT and vPvB assessment PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

Section XIII: Disposal considerations

13.1 Waste treatment methods

Recommendation Recycling is preferred to disposal or burning. Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow products to reach the sewage system.






| European waste catalog | |
|------------------------|---|
| 02 00 00 | Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing. |
| 02 03 00 | Wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea, and tobacco preparation, and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation. |
| 02 03 03 | Wastes from solvent extraction. |

Uncleaned packaging:

Recommendation: Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product. Moistened solids (e.g. cloth, pulp, filter panels, binder) can be burnt after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

15 02 02: Filter and absorption materials contaminated with hazardous agents.

Section XIV: Transport information

| | |
|---|--|
| 14.1 UN-Number · ADR, IMDG, IATA | UN1169 |
| 14.2 UN proper shipping name ADR IMDG IATA | 1169 FLAMMABLE LIQUID, N.O.S. (d-limonene, decanal), marine pollutant. FLAMMABLE LIQUID, N.O.S. (d-limonene) |
| 14.3 Transport hazard class(es) ADR   Class Label IMDG   Class Label IATA  Class Label | 3 Flammable liquids 3 3 Flammable liquids 3 3 Flammable liquids 3 |
| 14.4 Packing group · ADR, IMDG, IATA | III |
| 14.5 Environmental hazards Marine pollutant | The product contains environmentally hazardous substances: d-limonene. Yes Symbol (fish and tree) |

| | |
|--|--|
| Special marking (ADR) | Symbol (fish and tree) |
| 14.6 Special precautions for user Danger code (Kemler) EMS Number Stowage Category | Warning: Flammable liquids. 30 F-E, S-E A |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | Not applicable. |
| ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3 D/E |
| IMDG Limited quantities (LQ) Excepted quantities (EQ) | 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml |
| UN "Model Regulation" | UN 1993 flammable liquids, N.O.S. (D-limonene), 3, III, environmentally hazardous. |

Section XV: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

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

Section XVI: Regulatory 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.

Relevant phrases

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters the airways.

H315 Causes skin irritation. H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long-lasting effects.

H411 Toxic to aquatic life with long-lasting effects.

H412 Harmful to aquatic life with long-lasting effects.

Recommended restriction of use: For industrial application only

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

MDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (a division of the American Chemical Society)