

# Material Safety Data Sheet

JoiWhip Firm Hold Designing Mousse (6% VOC)



## 1. Identification of the material and supplier

### Names

- Product name** : JoiWhip Firm Hold Designing Mousse (6% VOC)
- Distributor** : SABRE CORPORATION  
75 South Creek Road  
Dee Why, NSW 2099  
Australia  
Phone: 02-9982-0100
- Manufacturer** : Zotos International, INC.  
100 Tokeneke Road,  
Darien, CT 06820  
www.zotos.com
- Emergency telephone number** : 131126

## 2. Hazards identification

- Classification** : Not regulated.
- Risk phrases** : Not classified.
- Statement of hazardous/dangerous nature** : NON-HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Additional information on toxicological endpoints is available from the supplier upon request

## 3. Composition/information on ingredients

- Mixture** : Yes.

| Ingredient name        | CAS number | Concentration |
|------------------------|------------|---------------|
| butane                 | 106-97-8   | 3.45          |
| propane                | 74-98-6    | 2.55          |
| (R)-p-mentha-1,8-diene | 5989-27-5  | 0.046233      |

Other ingredients, determined not to be hazardous according to Safe Work Australia criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

## 4. First aid measures

### First aid measures

- Inhalation** : Move affected person to fresh air.
- Ingestion** : NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED. Treat symptomatically. Never give anything by mouth to an unconscious person. Call a physician.
- Skin contact** : Remove contaminated clothing and shoes. Wash with plenty of soap and water.
- Eye contact** : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.
- Advice to doctor** : None.

## 5. Fire-fighting measures

- Extinguishing media** : Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).
- Special exposure hazards** : Flammable liquid. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
- Hazardous thermal decomposition products** : may be released including hydrofluoric and/or carbonyl halides
- Special protective equipment for fire-fighters** : Immediately contact emergency personnel. Flammable material. In case of insufficient ventilation, wear suitable respiratory equipment.
- Hazchem code** : 2YE

## 6. Accidental release measures

- Personal precautions** : Flammable. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Do not get in eyes. Keep out of reach of children.
- Environmental precautions** : Leaking packages should be placed in open containers outdoors away from any source of ignition
- Methods for cleaning up** : Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Place spilled material in an appropriate container for disposal. After contact with skin, wash immediately with plenty of water.

## 7. Handling and storage

- Handling** : Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Use only in well-ventilated areas. Avoid contact with ignition and heat sources and oxidizers. Do not spray on an open flame or other ignition source. Keep out of reach of children.
- Storage** : Avoid increased storage temperature. Keep away from ignition sources such as heat/sparks/open flame. - No smoking. Avoid contact with ignition and heat sources and oxidizers. Store away from oxidizing agents. Store in cool/well-ventilated place.

## 8. Exposure controls/personal protection

### Occupational exposure limits

| Ingredient name        | Exposure limits  |
|------------------------|--|
| butane                 | <b>Safe Work Australia (Australia, 8/2005).</b><br>TWA: 1900 mg/m <sup>3</sup> 8 hour(s).<br>TWA: 800 ppm 8 hour(s).   |
| propane                | <b>ACGIH TLV (United States, 2/2010).</b><br>TWA: 1000 ppm 8 hour(s).  |
| (R)-p-mentha-1,8-diene | <b>TRGS900 AGW (Germany, 8/2010). Skin sensitizer.</b><br>PEAK: 40 ppm 15 minute(s).<br>PEAK: 220 mg/m <sup>3</sup> 15 minute(s).<br>TWA: 20 ppm 8 hour(s).<br>TWA: 110 mg/m <sup>3</sup> 8 hour(s). |

- Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

### Exposure controls

- Engineering measures** : In case of insufficient ventilation, wear suitable respiratory equipment.
- Hygiene measures** : When using do not eat, drink or smoke.
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Respiratory** : Chemical splash goggles. Protective clothing must be worn.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 8. Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## 9. Physical and chemical properties

**Physical state** : Liquid. [Viscous liquid.]  
**Color** : White.  
**Odor** : Characteristic. Fragrance-like.  
**Boiling point** : 78.333°C (173°F)  
**Relative density** : 1.01 to 125  
**Flash point** : Closed cup: >75°C (>167°F)  
**pH** : 5.7 to 7  
**Aerosol product**  
**Type of aerosol** : Spray  
**Flame duration** : Not available.

## 10. Stability and reactivity

**Chemical stability** : Stable under recommended storage and handling conditions (see section 7).  
**Possibility of hazardous reactions** : Not available.  
**Conditions to avoid** : Store away from direct sunlight. Avoid contact with ignition and heat sources and oxidizers. Store away from oxidizing agents.  
**Materials to avoid** : Separate from oxidizing materials.  
**Hazardous decomposition products** : Products of combustion

## 11. Toxicological information

### Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Eye contact** : No known significant effects or critical hazards.

### Acute toxicity

| Product/ingredient name | Result                | Dose         | Exposure |
|-------------------------|-----------------------|--------------|----------|
| butane                  | LC50 Inhalation Vapor | 658000 mg/m3 | 4 hours  |
| (R)-p-mentha-1,8-diene  | LD50 Dermal           | >5000 mg/kg  | -        |
|                         | LD50 Oral             | 4400 mg/kg   | -        |

**Conclusion/Summary** : Not available.

### Potential chronic health effects

#### Chronic toxicity

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

| Product/ingredient name | Result               | Score | Exposure            | Observation |
|-------------------------|----------------------|-------|---------------------|-------------|
| (R)-p-mentha-1,8-diene  | Skin - Mild irritant | -     | 24 hours 10 Percent | -           |

**Conclusion/Summary** : Not available.

#### Sensitizer

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

## 11. Toxicological information

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

**Chronic effects** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Teratogenicity** : No known significant effects or critical hazards.

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing

**Ingestion** : No specific data.

**Skin** : No specific data.

**Eyes** : Adverse symptoms may include the following:  
irritation  
redness

**Target organs** : Contains material which may cause damage to the following organs: heart, central nervous system (CNS).

## 12. Ecological information

**Ecotoxicity** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

| Product/ingredient name | Result                          | Species  | Exposure |
|-------------------------|---------------------------------|--|----------|
| (R)-p-mentha-1,8-diene  | Acute EC50 421 ug/L Fresh water | Daphnia - Daphnia magna - <24 hours                      | 48 hours |
|                         | Acute EC50 688 ug/L Fresh water | Fish - Pimephales promelas - 34 days - 19.1 mm - 0.085 g | 96 hours |

**Conclusion/Summary** : Not available.

### Other ecological information

#### Persistence/degradability

**Conclusion/Summary** : Not available.

#### Bioaccumulative potential




| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| butane                  | 2.89               | -   | low       |
| propane                 | 2.36               | -   | low       |
| (R)-p-mentha-1,8-diene  | 4.2                | -   | high      |

**Other adverse effects** : No known significant effects or critical hazards.


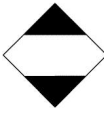


## 13. Disposal considerations

**Methods of disposal** : Dispose of according to all federal, state and local applicable regulations.

## 14. Transport information

| Regulation | UN number | Proper shipping name | Classes | PG* | Label  | Additional information   |
|------------|-----------|----------------------|---------|-----|--|--|
| ADG        | UN1950    | AEROSOLS             | 2.1     | -   |   | <b>Hazchem code</b><br>2YE   |
| ADR        | UN1950    | AEROSOLS             | 2       | -   | <br> | <b>Limited quantity</b><br>LQ2<br><b>Special provisions</b><br>190 327 625<br><b>Tunnel code</b> |

## 14. Transport information

|             |        |                     |     |   |  | (D)  |
|-------------|--------|---------------------|-----|---|--|--|
| <b>IMDG</b> | UN1950 | AEROSOLS            | 2.1 | - | <br> | <b>Emergency schedules (EmS)</b><br>F-D, S-U   |
| <b>IATA</b> | UN1950 | Aerosols, flammable | 2.1 | - | <br> | <b>Passenger and Cargo Aircraft</b><br>Quantity limitation: 75 kg<br>Packaging instructions: 203<br><b>Cargo Aircraft Only</b><br>Quantity limitation: 150 kg<br>Packaging instructions: 203<br><b>Limited Quantities - Passenger Aircraft</b><br>Quantity limitation: 30 kg<br>Packaging instructions: Y203 |

PG\* : Packing group

## 15. Regulatory information

### [Standard for the Uniform Scheduling of Drugs and Poisons](#)

Not regulated.

### [Control of Scheduled Carcinogenic Substances](#)

Not available.

No listed substance

**Australia inventory (AICS)** : All ingredients that are not contained in the AICS database are below registration thresholds.

## 16. Other information

**Date of issue** : 9/17/2012.

### **Disclaimer**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.