

MATERIAL SAFETY DATA SHEET

Product: BROSE MUSK 29191 WS - ORIENTAL AROMATICS

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Use : Fragrance for consumer product.

Company Identification : Oriental Aromatics Ltd

Telephone Numbers : Transport Emergency

Description : Non Alcoholic Synthetic fragrance compound (Industrial use only)

Product Information

2. COMPOSITION/INFORMATION ON INGREDIENTS

: Chem. Identification PERFUMERY COMPOUND

Fragrance Compound: A multi component mixture of fragrance ingredients. The specific chemical identities of the ingredients not listed herein are considered by Oriental Aromatics to be Trade Secrets and are withheld in accordance with the provisions of 1910.1200 of Title 29 of the U.S. Code of Federal Regulations.

3. HAZARDS IDENTIFICATION

Combustible. Eliminate all ignition sources. Bond and ground all containers and transfer systems.

Primary Routes of Exposure.

Skin contact

Eye contact

Inhalation

Potential Health Hazards.

This mixture has not been tested as a whole. It contains ingredients present at concentrations exceeding Oriental Aromatics thresholds that undiluted and at ambient conditions could have the following health hazards:

Acute Exposure

Irritating to skin, eyes, and respiratory system.

Prolonged skin contact, inhalation or ingestion may be harmful.

Chronic Exposure

To the best of Oriental's knowledge, this material does not contain any ingredients present at concentrations exceeding Oriental thresholds for which there is evidence of a chronic health hazard.

Carcinogenicity : Oriental [] IARC [] NTP [] ACGIH []

MSDS version : 1

4. FIRST AID MEASURES

: Inhalation Remove from exposure to fresh air. Obtain medical advice as necessary. Resuscitate or administer oxygen as needed.

: Eye Contact Flush immediately with water for at least 15 minutes. Contact a physician if symptoms persist.

: Skin Contact Remove contaminated clothing. Wash affected area thoroughly with soap and water.

Contact a physician if symptoms persist.

: Ingestion Give water to dilute and obtain medical advice.

5. FIRE FIGHTING MEASURES

: Explosive limit vol% in air none expected.

: Auto-Ignition Temp. Not available

Oriental Aromatics Ltd.

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- : Special Fire Fighting Proc. Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use water spray to cool containers exposed to fire.
- : Unusual Fire and Explosion Hazards Closed containers may build pressure when exposed to heat or fire.

6. ACCIDENTAL RELEASE MEASURES

- : Personal Protection Avoid inhalation and contact with skin and eyes. Self contained breathing apparatus and protective clothing is advised for major spills and spills or leaks in confined areas.
- : Procedures Eliminate all ignition sources. Contain spill and recover free product. Absorb remainder on vermiculite or other suitable absorbent materials. Use Sodium Hypochlorite solution (bleach) to neutralize odor.

7. HANDLING AND STORAGE

- : Handling Procedures Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.
- If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees.
- MSDS version: 1

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- : Closed Systems Where appropriate, use closed systems to transfer and process this material
 - : Isolation If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.
 - : Ventilation Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution Ventilation of the work area to eliminate or reduce possible worker exposures.
 - : Respiratory Protection No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.
- If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used:
- a) While engineering controls and appropriate safe work practices and/or Procedures are being implemented; or
 - b) During short term maintenance procedures when engineering controls are not in Normal operation or are not sufficient; or
 - c) If normal operational workplace vapor concentration in the air is increased due to heat or
 - d) During emergencies; or
 - e) If engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.
- : Skin Protection Avoid contact with skin. Use chemical resistant gloves.
 - : Eye Protection Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
 - : Exposure Monitoring To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.
 - : Worker Health Monitoring To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material. sheet.

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9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|---------------------------|------------------------|
| 1. APPEARANCE | : CLEAR LIQUID |
| 2. COLOR | : COLOURLESS TO YELLOW |
| 3. ODOR | : FLORIENTAL MUSKY |
| 4. REFRACTIVE INDEX 25°C | : 1.452 - 1.502 |
| 5. SPECIFIC GRAVITY 25 °C | : 1.002 - 1.052 |

10. STABILITY AND REACTIVITY

- : Stability This material is considered stable under normal conditions of storages, shipment and/or use. It presents no significant reactivity hazards by itself or in contact with water. Hazardous polymerization will not occur.
- : Incompatibility Avoid contact with strong acids, alkalis or oxidizing agents.
- : Decomposition Carbon Monoxide and unidentified organic compounds may be formed during combustion.

11. TOXICOLOGICAL INFORMATION

- Target Organ Effects.
- Refer to Section 3 of this MSDS for Chronic Exposure.
- Refer to Section 8 of this MSDS for Additional Information.

12. ECOLOGICAL INFORMATION

- : General Avoid contamination of soil, ground and surface water. While no specific environmental toxicity or related data is available, fragrance compositions are not expected to accumulate in the environment and environmental problems are not expected under normal conditions of use.

13. DISPOSAL CONSIDERATIONS

- : Procedures Place material into sealed containers and dispose of in accordance with local, state and federal regulations.

14. TRANSPORTATION INFORMATION

- Class Pack Group Sub risk UN-nr. Regulator
- : DOT (Non-Bulk) Not determined
- : Proper Shipping Name
- : IATA (Air Cargo) Not determined
- : Proper Shipping Name Not determined
- : IMDG Not determined
- : Proper Shipping Name Not determined

15. REGULATORY INFORMATION

SARA Title III Section 311 Hazard Categories:

Fire[X] Sudden Release of Pressure[] Reactivity[] Acute Health[X] Chronic Health[]

Section 313 Toxic Chemicals

This proprietary material contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

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Concentration (% by weight) Chemical Class

This product does not contain any SARA 313 toxic chemicals

16. OTHER INFORMATION

Hazard Rating Scale

Health 01 0-Insignificant

Fire 02 1-Slight

Reactivity 00 2-Moderate

3-High

4-Extreme

Disclaimer

The information in this MSDS was obtained from current and reliable sources. However the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond OAL control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.

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