

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY /UNDERTAKING**

Product name: (RS)-1-(benzo[d][1,3]dioxol-5-yl)-2-(pyrrolidin-1-yl)pentan-1-one

Company: Sunmiles Limited

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Use of substance || GC/MS (Gas chromatography-mass spectrometry) reference**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008

This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labeled in accordance with EC directives or respective national laws.

Precautionary Statement(s)

P102: Keep out of reach of children

P232: Protect from moisture

P235: Keep cool.

Other hazards – none**3. COMPOSITION/INFORMATION ON INGREDIENTS****(RS)-1-(benzo[d][1,3]dioxol-5-yl)-2-(pyrrolidin-1-yl)pentan-1-one**

Formula	Molecular Weight	CAS- No.	EC-No.	Index-No.	Classification	Concentraion
C16H21NO3	275.343 g/mol (freebase)	687603-66-3 or 24622-62-6	-	-	-	-

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES**If inhaled** ||if breathed in, move person into fresh air. If not breathing give artificial respiration.**In case of skin contact** ||Wash off with soap and plenty of water.**In case of eye contact** ||Flush eyes with water as a precaution.**If swallowed** ||Never give anything by mouth to an unconscious person. Rinse mouth with water.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media** ||Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**Special protective equipment for fire-fighters** ||Wear self contained breathing apparatus for fire fighting if necessary.**6. ACCIDENTAL RELEASE MEASURES****Personal precautions** ||Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.**Environmental precautions** ||Do not let products enter drains.**Methods and material for containment and cleaning up** ||Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

- Avoid contact with skin and eyes.

- Avoid formation of dust and aerosols.
- Provide appropriate exhaust ventilation at places where dust is formed.
- Normal measures for preventive fire protection.

Conditions for safe storage

- Store in cool place.
- Keep container tightly in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Personal protective equipment***Respiratory protection*

- Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143)
- Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

Hand protection

- The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.
- Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form ||solid

Safety data

pH	no data available
Melting point	140.03°C
Boiling point	415.5 °C at 760 mmHg
Flash point	205.1 °C
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available
I Solubility	no data available
Flammability	no data available
Oxidizing properties	no data available
Vapour Pressure	4.09E-07 mmHg at 25°C
Density	1.169 g/cm3
Partition coefficient	no data available (11-octanol/water)
Viscosity	no data available
Vapour density	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	no data available
Materials to avoid	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbor oxides, nitrogen oxides (NOx), Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute toxicity ||no data available
 Skin corrosion/irritation ||no data available
 Serious eye damage/eye irritation ||no data available
 Respiratory or skin sensitization ||no data available
 Germ cell mutagenicity ||no data available
 Careinogenicity ||IARC: No component of this product present at levels greater than or equal to 0.1%
 is identified as probable, possible or continued human carcinogen by IARC.
 Reproductive toxicity ||no data available
Specific target organ toxicity
-single exposure ||Inhalation - May cause respiratory irritation.
-repeated exposure ||no data available
Aspiration hazard ||no data available

Potential health effects

Inhalation ||May be harmful if inhaled
Ingestion ||May be harmful if swallowed.
Skin ||May be harmful if absorbed through skin
Eyes ||May cause eye irritation

Signs and Symptoms of Exposure||To the best of our knowledge, the chemical, physical, and toxicological properties
 have not been thoroughly investigated

Additional Information

||RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity ||no data available
 Persistence and degradability ||no data available
 Bioaccumulative potential ||no data available
 Mobility in soil ||no data available
 PBT and vPvB assessment ||no data available
 Other adverse effects ||no data available

13. DISPOSAL CONSIDERATIONS**Product**

-Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

ADR/RID	IMGD	IATA
Not dangerous goods	Not dangerous goods	Not dangerous goods

This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No 1272/2008.

This substance is not classified in the Annex I of Directive 67/548/EEC

This substance is not listed in the Annex I of Regulation (EC) No 689/2008.

This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances)

16. OTHER INFORMATION**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product and company makes no warranty of merchantability. Company shall not be held liable for any damage resulting from handling or from contact with the above product. Users should make their own investigations to determine the suitability of the information for their particular purposes.