SAFETY DATA SHEET

Section 1 - Product Information

- **Product Name:** Sunifiram, DM-235, 1-(4-benzoylpiperazin-1-yl)propan-1-one
- **Product Number:** CAS# 314728-85-3
- **Identified Uses:** Laboratory Research, Analytical Reference Standard
- **Company name:** Albochemicals LLC
- **Company website:** https://albochem.com
- **Address:** Albochemicals LLC, 8 The Green STE10911 Dover, DE 19901
- **Email:** onlinestore@albochem.com

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3), Respiratory system

2.2 GHS Label elements, including precautionary statements

Signal Word: Warning
Hazard statement(s):
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
Precautionary statement(s):
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/eye protection/face protection.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

Section 3 - Composition/Information on Ingredient

Property	Details
Composition	1-(4-benzoylpiperazin-1-yl)propan-1-one
Formula	C14H18N2O2
CAS	314728-85-3
Inactive ingredients	N/A

Section 4 - First aid measures

4.1 Description of first aid measures

General advice: Consult a physician. Move out of the dangerous area.
If inhaled: If breathed in, move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact: Wash off with soap and plenty of water. Consult a physician.
In case of eye contact: Flush eyes with water as a precaution. Consult a physician.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Nitrogen oxides (NOx). Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions: Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.
Environmental precautions: Do not let a product enter drains.
Methods and materials for containment and cleaning up: Pick up and arrange disposal

without creating dust. Keep in suitable, closed containers for disposal.

Section 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: Keep the container tightly closed in a dry and well-ventilated place. Store at room temperature (20-25°C) away from moisture and direct light.

Section 8 - Exposure Controls / PPE

ENGINEERING CONTROLS: Safety shower and eye bath. Mechanical exhaust required.
PERSONAL PROTECTIVE EQUIPMENT:

- **Respiratory:** Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- **Hand:** Compatible chemical-resistant gloves.
- **Eye:** Chemical safety goggles.

GENERAL HYGIENE MEASURES: Wash thoroughly after handling. Wash contaminated clothing before reuse.

Section 9 - Physical/Chemical Properties

Property	Value
Appearance Physical State	White to off-white crystalline powder
Molecular Weight	246.31 g/mol
pH	N/A
Melting Point	118-120 °C
Flash point	N/A
Solubility	Soluble in DMSO, Ethanol

Section 10 - Stability and Reactivity

STABILITY: Stable under normal storage conditions.
Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic fumes of carbon monoxide, carbon dioxide, Nitrogen oxides (NOx).
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 - Toxicological Information

Acute toxicity: No data available.
Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

No data available.

Section 13 - Disposal Considerations

Product: Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.
Contaminated packaging: Dispose of as unused product.

Section 14 - Transport Information

DOT (US): Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

Section 15 - Regulatory Information

TSCA: Product contains substance(s) not listed on TSCA inventory. For R&D use only. Not for manufacturing, commercial purposes, or human consumption.

Section 16 - Other Information

DISCLAIMER: For laboratory R&D and analytical reference use only. Not for drug, direct human consumption, veterinary, household, or other uses. The purchaser is solely responsible for ensuring that any final application of this raw material complies with all applicable local, state, and federal regulations regarding safety, labeling, and use.