

# SAFETY DATA SHEET

Version 3.0 Revision Date 3/01/2015

### 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product identifiers

Product name : Syna PI 907

2-Methyl-1- [4-(methylthio)phenyl]-2-

morpholino-propan-1-one

CAS-No. : 71868-10-5

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

Identified uses : Laboratory chemicals, Synthesis of substances

# 1.3 Details of the supplier of the safety data sheet

Company : Synasia Inc.

240 Amboy Ave.

Metuchen New Jersey 08840

USA

Contact Person (E-mail) : Larry Qiu (Iqiu@synasia.com)

Telephone : 1-732-205-9880 Fax : 1-732-205-1788

## 1.4 Emergency telephone number

Emergency Phone # : 1-973-641-0862

# 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302 Reproductive toxicity (Category 1B), H360 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2), H411

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

## 2.2 GHS Label elements, including precautionary statements

Pictogram
Signal word
Danger

Hazard statement(s)

H302 Harmful if swallowed.

H360 May damage fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P264 Wash skin thoroughly after handling.

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P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face

protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

Rinse mouth.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Formula : C<sub>15</sub>H<sub>21</sub>NO<sub>2</sub>S Molecular weight : 279.40 g/mol CAS-No. : 71868-10-5 EC-No. : 400-600-6

Hazardous components

Component	Classification	Concentration
2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one		
	Acute Tox. 4; Repr. 1B;	<= 100 %
	Aquatic Acute 2; Aquatic	
	Chronic 2; H302, H360, H411	

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

### 4. FIRST AID MEASURES

# 4.1 Description of first aid measures

### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

### If inhaled

If breathed in, move 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.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

## 4.3 Indication of any immediate medical attention and special treatment needed

No data available

## 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

No data available

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# 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4 Further information

No data available

### 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

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

Keep in a dry place.

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

# Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

# 8.2 Exposure controls

### Appropriate engineering controls

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

## Personal protective equipment

## Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Form: powder Appearance

Colour: off-white

b) Odour No data available Odour Threshold No data available No data available d)

Melting point/freezing e)

point

Melting point/range: 74 - 76 °C (165 - 169 °F) - lit.

Initial boiling point and f)

g)

348.8 °C (659.8 °F) at 1,013.0 hPa (759.8 mmHg)

boiling range

Flash point

165 °C (329 °F) at ca.1,013.0 hPa (759.8 mmHg) - DIN 51758

h) Evaporation rate No data available i) Flammability (solid, gas) No data available Upper/lower

flammability or explosive limits No data available

No data available Vapour pressure No data available Vapour density m) Relative density No data available

Water solubility 0.0179 g/l at 20 °C (68 °F) - slightly soluble

Partition coefficient: n-

octanol/water

log Pow: 3.09 at 25 °C (77 °F)

Auto-ignition ca.75 °C (167 °F) at 1,013.0 hPa (759.8 mmHg) temperature

Decomposition temperature

No data available

No data available r) Viscosity No data available s) Explosive properties No data available Oxidizing properties

Other safety information 9.2

> Surface tension 60 mN/m at 20 °C (68 °F)

## 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

No data available

#### **Chemical stability** 10.2

Stable under recommended storage conditions.

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## 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

No data available

### 10.5 Incompatible materials

Strong oxidizing agents

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides

Other decomposition products - No data available

In the event of fire: see section 5

### 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### **Acute toxicity**

LD50 Oral - Rat - male and female - 1,984 mg/kg

(OECD Test Guideline 401)

Inhalation: No data available

LD50 Dermal - Rat - male and female - > 2,000 mg/kg

(OECD Test Guideline 402)

No data available

## Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 4 h (OECD Test Guideline 404)

## Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

## Respiratory or skin sensitisation

Maximisation Test - Guinea pig

Result: Does not cause skin sensitisation.

### Germ cell mutagenicity

No data available

Ames test S. typhimurium Result: negative

Hamster

Result: negative

# Carcinogenicity

No data available

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.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

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## Reproductive toxicity

Presumed human reproductive toxicant

## Specific target organ toxicity - single exposure

No data available

## Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

### **Additional Information**

Repeated dose

Rat - NOAEL: 75 mg/kg

toxicity

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - 9 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and

other aquatic invertebrates

semi-static test EC50 - Daphnia magna (Water flea) - 15.3 mg/l - 24 h

(OECD Test Guideline 202)

Toxicity to algae Growth inhibition EC50 - Desmodesmus subspicatus (Scenedesmus

subspicatus) - 1.6 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria Respiration inhibition EC50 - Sludge Treatment - > 100 mg/l - 30 min

(OECD Test Guideline 209)

### 12.2 Persistence and degradability

Biodegradability Result: 1 % - Not readily biodegradable.

## 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

# 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

## Contaminated packaging

Dispose of as unused product.

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### 14. TRANSPORT INFORMATION

## DOT (US)

Not dangerous goods

**IMDG** 

UN number: 3077 Class: 9 Packing group: III EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Methyl-1-(4-

methylthiophenyl)-2-morpholinopropan-1-one)

Marine pollutant:yes

**IATA** 

UN number: 3077 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (2-Methyl-1-(4-methylthiophenyl)-2-

morpholinopropan-1-one)

### **Further information**

EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

### 15. REGULATORY INFORMATION

### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

## **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

CAS-No. Re

Revision Date

2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

71868-10-5

**New Jersey Right To Know Components** 

CAS-No.

**Revision Date** 

2-Methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one

71868-10-5

### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

### Full text of H-Statements referred to under sections 2 and 3.

Acute Tox. Acute toxicity
Aquatic Acute
Aquatic Chronic
H302
Acute toxicity
Acute aquatic toxicity
Chronic aquatic toxicity
Harmful if swallowed.

H360 May damage fertility or the unborn child.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Repr. Reproductive toxicity

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# **HMIS Rating**

Health hazard: 1
Chronic Health Hazard: \*
Flammability: 1

0

NFPA Rating

Physical Hazard

Health hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0

## **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. Synasia Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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