

Revision Date 10-Feb-2011

**Revision Number 2** 

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Description: Glycine anhydride

 Cat No.
 120080000; 120080050; 120080250; 120081000

 Synonyms
 2,5-Piperazinedione; 2,5-Diketopiperazine

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

Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company

Acros Organics BVBA

Janssen Pharmaceuticalaan 3a

2440 Geel, Belgium

E-mail address begel.sdsdesk@thermofisher.com

**Emergency Telephone Number** 

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

# 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Not hazardous

Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R phrases mentioned in this Section, see Section 16

R -phrase(s) none

Label Elements

Signal Word None

**Hazard Statements** 

Other Hazards

No information available.



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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component           | EC No.       | Weight % | CAS-No   | Classification | GHSCLAS | REACH Reg. No. |
|---------------------|--------------|----------|----------|----------------|---------|----------------|
| 2,5-Piperazinedione | EEC No. 203- | 98       | 106-57-0 | -              | -       | -              |
| 106-57-0            | 411-5        |          |          |                |         |                |

For the full text of the R phrases mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

Description of first aid measures

**Eye Contact**Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes

Ingestion Clean mouth with water Get medical attention

**Inhalation** Remove from exposure, lie down Move to fresh air

Notes to Physician Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray Carbon dioxide (CO<sub>2</sub>) Dry chemical chemical foam

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

**Environmental precautions** 

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Prevent further leakage or spillage if safe to do so

#### Methods and material for containment and cleaning up

Sweep up or vacuum up spillage and collect in suitable container for disposal.

### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist

#### Conditions for safe storage, including any incompatibilities

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

Specific End Uses

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

**Exposure limits** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Derived No Effect Level (DNEL)** 

**Predicted No Effect Concentration** 

(PNEC)

**Exposure controls Engineering Measures** 

Personal protective equipment

**Eve Protection Hand Protection** 

Skin and body protection

**Respiratory Protection** 

Goggles

Protective gloves Wear appropriate protective gloves and clothing to prevent skin exposure

A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149

Ensure that eyewash stations and safety showers are close to the workstation location

**Hygiene Measures** 

Handle in accordance with good industrial hygiene and safety practice No information available.

No information available.

No information available.

**Environmental exposure controls** 

# 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State Appearance** 

pН **Boiling Point/Range** Melting Point/Range

**Decomposition temperature** 

**Flash Point** 

**Water Solubility Molecular Formula Molecular Weight** 

Powder, Solid Off-white

No information available. No information available. >300°C / 572°F

311 °C

No information available. 142 G/L WATER (20 C)

C4 H6 N2 O2

114.1



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### 10. STABILITY AND REACTIVITY

Reactivity

**Chemical Stability** 

Stable under normal conditions

**Possibility of Hazardous Reactions** 

Hazardous Polymerization Hazardous Reactions.

No information available. No information available.

**Conditions to Avoid** 

Incompatible products.

Incompatible Materials

Strong oxidizing agents.

**Hazardous Decomposition Products** 

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 11. TOXICOLOGICAL INFORMATION

#### **Information on Toxicological Effects**

**Acute Toxicity** 

**Product Information**No acute toxicity information is available for this product

**Component Information** 

**Chronic Toxicity** 

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information availableReproductive EffectsNo information available.Developmental EffectsNo information available.Target OrgansNo information available.

Endocrine Disruptor Information None known

### 12. ECOLOGICAL INFORMATION

Toxicity



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12. ECOLOGICAL INFORMATION

**Ecotoxicity effects** 

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

Persistence and degradability

No information available

**Bioaccumulative potential** 

No information available.

Mobility in soil

No information available.

Results of PBT and vPvB assessment

Other adverse effects

No information available

# 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused

**Products** 

Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Not regulated IMDG/IMO

**ADR** Not regulated

Not regulated IATA

### 15. REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

| international inventories |           |        |     |      |     |      |       |      |       |      |      |
|---------------------------|-----------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Component                 | EINECS    | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
| 2.5-Pinerazinedione       | 203-411-5 | _      |     | Y    | _   | Y    | X     | _    | Y     | _    | _    |

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory



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**EINECS/ELINCS** - European Inventory Lists

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **CHINA** - China Inventory of Existing Chemical Substances

**AICS** - Inventory of Chemical Substances

**KECL** - Existing and Evaluated Chemical Substances

### **Chemical Safety Assessment**

### **16. OTHER INFORMATION**

#### Text of R phrases mentioned in Section 2-3

No information available.

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer** 

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**End of Safety Data Sheet**