

Revision Date 30-Apr-2012

**Revision Number 2** 

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

**Product Identifier** 

**Product Description:** Dichloromalononitrile

Cat No. 113450000: 113450010: 113450050

**Synonyms** Malononitrile, dichloro-

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

Laboratory chemicals **Recommended Use** No Information available Uses advised against

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

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

REGULATION (EC) No 1272/2008

| Acute dermal toxicity                       | Category 3 |
|---|------------|
| Acute Inhalation Toxicity - Dusts and Mists | Category 3 |

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

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

Symbol(s) T - Toxic R-phrase(s)

**Risk Combination Phrases** R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed



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## **SECTION 2. HAZARDS IDENTIFICATION**

**Label Elements** 



Signal Word Hazard Statements Danger

H331 - Toxic if inhaled

H311 - Toxic in contact with skin

## Precautionary Statements - EU (§28, 1272/2008)

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

P312 - Call a POISON CENTER or doctor/ physician if you feel unwell

P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

#### Other Hazards

Lachrymator (substance which increases the flow of tears).

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component                           | EC-No.            | Weight % | CAS-No     | 67/548/EEC<br>Classification | CLP<br>Classification -<br>Regulation (EC)<br>No 1272/2008                 | REACH No. |
|-------------------------------------|-------------------|----------|------------|------------------------------|--|-----------|
| Dichloromalononitrile<br>13063-43-9 | EEC No. 235-955-4 | 97       | 13063-43-9 | T; R23/24/25                 | Acute Tox. 3<br>(H301)<br>Acute Tox. 3<br>(H311)<br>Acute Tox. 3<br>(H331) | -         |

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

## **SECTION 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.



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

and shoes.

**Ingestion** Do not induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty

of water. If possible drink milk afterwards.

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

Notes to Physician Treat symptomatically

#### **SECTION 5. FIRE-FIGHTING MEASURES**

## **Extinguishing media**

#### Suitable Extinguishing Media

Water spray. Carbon dioxide (CO<sub>2</sub>). Dry chemical. alcohol-resistant 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.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

## Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal..

## **SECTION 7. HANDLING AND STORAGE**

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

Ensure adequate ventilation

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

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**Specific End Uses** 

## **SECTION 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.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits

established by the region specific regulatory bodies.

Derived No Effect Level (DNEL)

No information available.

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

Predicted No Effect Concentration

(PNEC)

No information available.

**Exposure controls** 

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

**Eye Protection** Safety glasses with side-shields Goggles

Hand Protection Protective gloves
Skin and body protection Long sleeved clothing

Respiratory Protection Wear a NIOSH/MSHA or European Standard EN 149 approved full-facepiece airline respirator

in the positive pressure mode with emergency escape provisions

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

**Environmental exposure controls** No information available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical StateLiquidAppearanceDark yellowodorodorless

pHNo information available.Vapor PressureNo information available.

Vapor Density 4.65

Boiling Point/Range $97^{\circ}\text{C} / 206.6^{\circ}\text{F}$ @ 760 mmHgMelting Point/RangeNo information available.Flash Point>  $112^{\circ}\text{C} / > 233.6^{\circ}\text{F}$ Autoignition TemperatureNo information available.

Specific Gravity 1.310
Molecular Formula C3 Cl2 N2
Molecular Weight 134.95



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## **SECTION 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**

Heat, flames and sparks

#### **Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents.

#### **Hazardous Decomposition Products**

None under normal use conditions

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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

**Acute Toxicity** 

Product Information No acute toxicity information is available for this product

**Component Information** 

 Component
 LD50 Oral
 LD50 Dermal
 LC50 Inhalation

 Dichloromalononitrile
 130 mg/kg (Rat)
 LC50 Inhalation

**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



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## **SECTION 12. ECOLOGICAL INFORMATION**

**Toxicity** 

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

## **SECTION 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 to local recyclers for disposal

## **SECTION 14. TRANSPORT INFORMATION**

IMDG/IMO

UN-No 2810 Hazard Class 6.1 Packing Group II

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.

**ADR** 

UN-No 2810 Hazard Class 6.1

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**SECTION 14. TRANSPORT INFORMATION** 

Packing Group

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.

**IATA** 

UN-No 2810 Hazard Class 6.1 Packing Group II

Proper Shipping Name TOXIC LIQUID, ORGANIC, N.O.S.\*

#### **SECTION 15. REGULATORY INFORMATION**

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

#### International Inventories

| Component             | <b>EINECS</b> | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|-----------------------|---------------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Dichloromalononitrile | 235-955-4     | -      |     | -    | -   | -    | -     | -    | -     | -    | -    |

#### Legend

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

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

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**

#### **SECTION 16. OTHER INFORMATION**

Full text of R-phrases referred to under sections 2 and 3

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

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**SECTION 16. OTHER INFORMATION** 

#### Octobra Commons

**Revision Summary** 

Reason for revision Not applicable

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

**Disclaimer** 

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**