

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 05.04.2017

Revision: 05.04.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier

- **Trade name:** Idebenone

- **CAS Number:**

58186-27-9

- **1.2 Relevant identified uses of the substance or mixture and uses advised against** d.n.d.

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

INDUSTRIALE CHIMICA S.r.l.

Via Grieg, 13

I - 21047 Saronno (VA)

Tel: (02) 96426411

Fax: (02) 9621997

- **Informing department:** Product safety department.

- 1.4 Emergency telephone number:

Dr. Marco Radice

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- Centro Antiveleni U.S. Tossicologia clinica di Bergamo Tel. 800/883300

- Policlinico Umberto I Centro Antiveleni Roma 06-49978020

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

The product is not classified as hazardous to health or environment according to the CLP regulation.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- 2.3 Other hazards

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances

- **CAS No. Designation:**

58186-27-9 Idebenone

- **Identification number(s):** -

SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information**

Do not leave affected persons unsupervised.

Take affected persons into the open air.

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.

- **After skin contact** Instantly wash with water and soap and rinse thoroughly.

- **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **After swallowing**

Rinse out mouth.

Do not induce vomiting; instantly call for medical help.

- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water jet.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
Can be released in case of fire
Carbon monoxide (CO)
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Do not allow to enter the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
Collect mechanically.
Ensure adequate ventilation.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Protect against electrostatic charges.
- **Information about protection against explosions and fires:**
Keep breathing equipment ready.
Have fire extinguishing equipment ready in case of nearby fire.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:**
Do not store together with incompatible materials (see Section 10)
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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- 8.1 Control parameters

- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls**- Personal protective equipment****- General protective and hygienic measures**

Do not eat or drink while working.

Ensure that washing facilities are available in the work place.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

- Breathing equipment:

Protecting Mask.

- Eye protection:

Tightly sealed safety glasses.

- Body protection: Work clothing**SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- Appearance:****Form:** Scales**Colour:** Orange**- Odour:** Odourless**- Molecular Weight** 338.44**- Odour threshold:** Not determined.**- pH-value:** Not applicable.**- Change in condition****Melting point/Melting range:** 50-55 °C**Boiling point/Boiling range:** 497.3+- 45.0 °C (a 760 mmHg)**- Flash point:** >110 °C**- Inflammability (solid, gaseous)** Product is not inflammable.**- Ignition temperature:****Decomposition temperature:** Not determined.**- Self-inflammability:** Not determined.**- Danger of explosion:** Product is not explosive.**- Critical values for explosion:****Lower:** Not determined.**Upper:** Not determined.**- Vapour pressure:** Not applicable.**- Density** Not determined

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- | | |
|---|--|
| - Relative density | 1.1 +- 0.1 g/cm ³ |
| - Vapour density | Not applicable. |
| - Evaporation rate | Not applicable. |
| - Solubility in / Miscibility with Water: | Slightly soluble |
| - Partition coefficient (n-octanol/water): | 3.93 Log Kow |
| - Viscosity: | |
| dynamic: | Not applicable. |
| kinematic: | Not applicable. |
| - 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong oxidizing agents
- **10.4 Conditions to avoid** avoid strong heating
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Carbon monoxide
Poisonous gases/vapours

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

Oral	LD50	10000 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation** May cause irritation
- **Serious eye damage/irritation** May cause irritation
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations**- **13.1 Waste treatment methods**- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**- **Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**- **14.1 UN-Number**- **ADR, ADN, IMDG, IATA** Void- **14.2 UN proper shipping name**- **ADR, ADN, IMDG, IATA** Void- **14.3 Transport hazard class(es)**- **ADR, ADN, IMDG, IATA**- **Class** Void- **14.4 Packing group**- **ADR, IMDG, IATA** Void- **14.5 Environmental hazards:**

Not applicable.

- **14.6 Special precautions for user**

Not applicable.

- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

- **Transport/Additional information:**

Not dangerous according to the above specifications.

- **UN "Model Regulation":**

Void

SECTION 15: Regulatory information- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- REGULATION (EC) Nr. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

- REGULATION (EC) Nr. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** INDUSTRIALE CHIMICA S.r.l.- **Contact:**

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- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
SVHC: Substances of Very High Concern

- Bibliographic sources:

- Data Bank "ChemGes EB" - DR software Gmbh
- Merck Index, 12th Ed.
- Sax's dangerous properties of industrial materials, 8th Ed.
- CEFIC
- ADR

- * **Data compared to the previous version altered.**
Classification is updated to the last EC Directives.

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