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Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)
Classifications according to Regulation (EC) No 1272/2008.
Printdate 21 Jul 2023

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

Chlorendic acid

1.1. Catalog No.:

685331

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical
uses: R&D

1.3. Uses advised against:

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36
This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Serious eye damage (Category 1), H318
Carcinogenicity (Category 2), H351

2.2. Label elements

2.2.1. Pictogram

2.2.2.

2.2 Label elements
Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Danger
Hazard statement(s)
H318 Causes serious eye damage.

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H351 Suspected of causing cancer.
Precautionary statement(s)
P280 Wear protective gloves/ eye protection/ face protection P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard
Statements
none
2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Formula : C9H4Cl6O4
Molecular weight : 388.84 g/mol
CAS-No. : 115-28-6
EC-No. : 204-078-9
Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid CAS-No. EC-No. 115-28-6 204-078-9	Eye Dam. 1; Carc. 2; H318, H351	<= 100 %

3.1.1. Formula

C9H4Cl6O4

3.1.2. Molecular Weight (g/mol)

388.84

3.1.3. CAS-No.

115-28-6

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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.
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
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
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. FIRE-FIGHTING 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, Hydrogen chloride gas
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.
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.
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire

protection.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Storage class (TRGS 510): Combustible Solids
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

Occupational exposure limits No exposure limits noted for ingredient(s).
Biological limit values No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment
Eye/face protection Wear safety glasses with side shields (or goggles).
Skin protection
Hand protection Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA).
Thermal hazards Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: solid
b) Odour No data available
c) Odour Threshold No data available
d) pH No data available
e) Melting point/freezing
point
Melting point/range: 239 - 242 °C - lit.
f) Initial boiling point and
boiling range
No data available
g) Flash point No data available
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available
j) Upper/lower
flammability or
explosive limits
No data available
k) Vapour pressure No data available
l) Vapour density No data available
m) Relative density No data available
n) Water solubility No data available
o) Partition coefficient: noctanol/
water
No data available
p) Auto-ignition
temperature
No data available
q) Decomposition
temperature

No data available
r) Viscosity No data available
s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
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, Hydrogen chloride gas
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
No data available1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid
Skin corrosion/irritation
Skin - Rabbit(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Result: Mild skin irritation - 24 h
Serious eye damage/eye irritation
Eyes - Rabbit(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Result: Severe eye irritation - 24 h
Respiratory or skin sensitisation
No data available(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Germ cell mutagenicity
Mouse(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
lymphocyte
Mutation in mammalian somatic cells.
Hamster(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Lungs
Cytogenetic analysis
Carcinogenicity
This product is or contains a component that has been reported to be possi classification.(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Limited evidence of carcinogenicity in animal studies(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
IARC: 2B - Group 2B: Possibly carcinogenic to humans (1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Reproductive toxicity
No data available(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Specific target organ toxicity - single exposure
No data available(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid) Additional Information
RTECS: RB9000000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available 12.2 Persistence and degradability
No data available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available(1,4,5,6,7,7-Hexachloro-5-norbornene-2,3-dicarboxylic acid)
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
No data available

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. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.
Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: - IATA: -
14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
14.4 Packaging group
ADR/RID: - IMDG: - IATA: -
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
No data available

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15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
15.2 Chemical safety assessment
For this product a chemical safety assessment was not carried out

16. OTHER 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. For lab use only!