

# SAFETY DATA SHEET

Revision Date 25-Dec-2021

**Revision Number** 4

# 1. Identification Product Name Sodium dichloroacetate Cat No. : AC338280000; AC338280100; AC338280500 CAS No 2156-56-1 Synonyms DCA Recommended Use Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use. Details of the supplier of the safety data sheet Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

# 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### **Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

### Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

# Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# Storage

Store in a well-ventilated place. Keep container tightly closed

# Store locked up

# Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

| 2156-56-1  | 98   |  |  |  |
|--|--|--|--|--|
|  |  |  |  |  |
|  |  |  |  |  |
| 4. First-aid measures  |  |  |  |  |
| Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. G medical attention.                |  |  |  |  |
| Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention. |  |  |  |  |
| Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.   |  |  |  |  |
| Clean mouth with water. Get medical attention.   |  |  |  |  |
| No information available.  |  |  |  |  |
| Treat symptomatically  |  |  |  |  |
|  | Rinse immediately with plenty of water, also under t<br>medical attention.<br>Wash off immediately with soap and plenty of water<br>clothes and shoes. Get medical attention.<br>Remove from exposure, lie down. Remove to fresh<br>respiration. Get medical attention.<br>Clean mouth with water. Get medical attention.<br>No information available. |  |  |  |

| Suitable Extinguishing Media                 | Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam. |
|--|--|
| Unsuitable Extinguishing Media               | No information available   |
| Flash Point<br>Method -                      | No information available<br>No information available             |
| Autoignition Temperature<br>Explosion Limits | No information available   |
| Upper  | No data available  |
| Lower  | No data available  |
| Sensitivity to Mechanical Impac              |  |
| Sensitivity to Static Discharge              | No information available   |

**Specific Hazards Arising from the Chemical** Keep product and empty container away from heat and sources of ignition.

# Hazardous Combustion Products

Hydrogen chloride gas.

# Protective Equipment and Precautions for Firefighters

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

|                                 | alth                | Flammability  | Instability  | Physical hazards           |
|---------------------------------|---------------------|---|--|----------------------------|
|                                 | 2                   | 0   | 0  | N/A                        |
|                                 |                     | 6. Accidental rele  | ase measures   |                            |
| Personal Preca<br>Environmental |                     | Ensure adequate ventilation.<br>See Section 12 for additional   | Use personal protective equipme<br>Ecological Information.           | ent as required.           |
| Methods for Co<br>Up            | ontainment and Clea | <b>n</b> Sweep up and shovel into su                            | itable containers for disposal.                                      |                            |
|                                 |                     | 7. Handling ar  | nd storage   |                            |
| Handling                        |                     | Avoid contact with skin and e                                   | yes. Do not breathe dust.  |                            |
| Storage.                        |                     | Keep in a dry, cool and well-v                                  | ventilated place. Keep container                                     | ightly closed.             |
|                                 | 8. E                | xposure controls /  | personal protection  |                            |
| Exposure Guid                   | lelines_            | This product does not contain<br>limitsestablished by the regio | n any hazardous materials with o<br>n specific regulatory bodies.    | ccupational exposure       |
| Engineering M                   | easures             | Ensure adequate ventilation, and safety showers are close       | especially in confined areas. Ensets to the workstation location.    | sure that eyewash stations |
| Personal Prote                  | ective Equipment    |   |  |                            |
| Eye/face Pi                     | rotection           |   | eyeglasses or chemical safety go<br>ion regulations in 29 CFR 1910.1 |                            |
| Skin and b                      | ody protection      | Wear appropriate protective (                                   | gloves and clothing to prevent sk                                    | in exposure.               |

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

| 9. Physical a                          | nd chemical properties   |
|--|--------------------------|
| Physical State                         | Powder Solid             |
| Appearance                             | White                    |
| Odor                                   | No information available |
| Odor Threshold                         | No information available |
| рН                                     | No information available |
| Melting Point/Range                    | 198 °C / 388.4 °F        |
| Boiling Point/Range                    | No information available |
| Flash Point                            | No information available |
| Evaporation Rate                       | Not applicable           |
| Flammability (solid,gas)               | No information available |
| Flammability or explosive limits       |                          |
| Upper                                  | No data available        |
| Lower                                  | No data available        |
| Vapor Pressure                         | No information available |
| Vapor Density                          | Not applicable           |
| Specific Gravity                       | No information available |
| Solubility                             | No information available |
| Partition coefficient; n-octanol/water | No data available        |
| Autoignition Temperature               | No information available |
| Decomposition Temperature              | No information available |
| Viscosity                              | Not applicable           |
| Molecular Formula                      | C2 H Cl2 Na O2           |
| Molecular Weight                       | 150.92                   |
|  |                          |

# 10. Stability and reactivity

| Reactive Hazard                 | None known, based on information available             |
|---------------------------------|--|
| Stability                       | Stable under normal conditions. Hygroscopic.           |
| Conditions to Avoid             | Incompatible products. Exposure to moist air or water. |
| Incompatible Materials          | Strong oxidizing agents                                |
| Hazardous Decomposition Product | <b>s</b> Hydrogen chloride gas                         |
| Hazardous Polymerization        | No information available.                              |
| Hazardous Reactions             | None under normal processing.                          |

11. Toxicological information

# Acute Toxicity

#### Product Information Component Information

| Component                   | LD50 Oral                | LD50 Dermal | LC50 Inhalation |
|-----------------------------|--------------------------|-------------|-----------------|
| Sodium dichloroacetate      | LD50 = 5281 mg/kg (Rat)  | Not listed  | Not listed      |
| Toxicologically Synergistic | No information available |             |                 |

Products

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# Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

No information available

#### Sensitization

No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Component  | CAS No   | IARC   | NTP                  | ACGIH               | OSHA              | Mexico     |  |  |
|--|--|--|----------------------|---------------------|-------------------|------------|--|--|
| Sodium<br>dichloroacetate  | 2156-56-1  | Not listed   | Not listed           | Not listed          | Not listed        | Not listed |  |  |
| Mutagenic Effects  |  | No information available                                       |                      |                     |                   |            |  |  |
| Reproductive Effects   |  | No information available.                                      |                      |                     |                   |            |  |  |
| Developmental Effects No information available.                                |  |  |                      |                     |                   |            |  |  |
| Teratogenicity   |  | No information ava   | ailable.             |                     |                   |            |  |  |
| 0 1  | TOT - single exposure     Respiratory system       STOT - repeated exposure     None known |  |                      |                     |                   |            |  |  |
| Aspiration hazard  |  | No information available                                       |                      |                     |                   |            |  |  |
| Symptoms / effects delayed   | ,both acute and  | and No information available                                   |                      |                     |                   |            |  |  |
| Endocrine Disrupto   | r Information  | No information available                                       |                      |                     |                   |            |  |  |
| Other Adverse Effects  |  | The toxicological properties have not been fully investigated. |                      |                     |                   |            |  |  |
|  |  | 12. Ecol   | ogical infor         | mation              |                   |            |  |  |
| Ecotoxicity<br>Do not empty into dra   | ains.  |  |                      |                     |                   |            |  |  |
| Persistence and De   | gradability  | Soluble in water P   | ersistence is unlike | ely based on inforr | nation available. |            |  |  |
| Bioaccumulation/ A   | ccumulation  | No information ava   | ailable.             |                     |                   |            |  |  |
| Mobility Will likely be mobile in the environment due to its water solubility. |  |  |                      |                     |                   |            |  |  |

|                        | 13. Disposal considerations   |
|------------------------|---|
| Waste Disposal Methods | Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification. |

|                    | 14. Transport information  |
|--------------------|----------------------------|
| DOT                | Not regulated              |
| DOT<br>TDG<br>IATA | Not regulated              |
| IATA               | Not regulated              |
| IMDG/IMO           | Not regulated              |
|                    | 15. Regulatory information |

# United States of America Inventory

| Component              | CAS No    | TSCA | TSCA Inventory notification -<br>Active-Inactive | TSCA - EPA Regulatory<br>Flags |
|------------------------|-----------|------|--|--------------------------------|
| Sodium dichloroacetate | 2156-56-1 | -    | -  | -                              |

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

# TSCA 12(b) - Notices of Export Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component CA               | S No   | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL |
|----------------------------|--------|-----|------|-----------|-------|------|------|------|-------|------|
| Sodium dichloroacetate 215 | 6-56-1 | -   | -    | 218-461-3 | -     | -    | Х    | -    | Х     | -    |

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

| SARA 313   | Not applicable  |
|--|---|
| SARA 311/312 Hazard Categories   | See section 2 for more information                          |
| CWA (Clean Water Act)  | Not applicable  |
| Clean Air Act  | Not applicable  |
| <b>OSHA</b> - Occupational Safety and Health Administration  | Not applicable  |
| CERCLA   | Not applicable  |
| California Proposition 65  | This product does not contain any Proposition 65 chemicals. |
| U.S. State Right-to-Know<br>Regulations  | Not applicable  |
| <b>U.S. Department of Transportation</b><br>Reportable Quantity (RQ):<br>DOT Marine Pollutant<br>DOT Severe Marine Pollutant | N<br>N<br>N   |
| U.S. Department of Homeland<br>Security  | This product does not contain any DHS chemicals.            |
| Other International Regulations  |   |
| Mexico - Grade   | No information available                                    |

Authorisation/Restrictions according to EU REACH

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

| Component              | CAS No    | OECD HPV  | Persistent Organic<br>Pollutant  | Ozone Depletion<br>Potential  | Restriction of<br>Hazardous<br>Substances (RoHS) |
|------------------------|-----------|---|--|-------------------------------|--|
| Sodium dichloroacetate | 2156-56-1 | Not applicable  | Not applicable   | Not applicable                | Not applicable                                   |
|                        |           |   |  |                               |  |
| Component              | CAS No    | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste)            |

|                        |           | Notification   | Requirements   |                |                |
|------------------------|-----------|----------------|----------------|----------------|----------------|
| Sodium dichloroacetate | 2156-56-1 | Not applicable | Not applicable | Not applicable | Not applicable |

| 16. Other information                           |   |  |  |
|---|---|--|--|
| Prepared By                                     | Regulatory Affairs<br>Thermo Fisher Scientific<br>Email: EMSDS.RA@thermofisher.com  |  |  |
| Revision Date<br>Print Date<br>Revision Summary | 25-Dec-2021<br>25-Dec-2021<br>This document has been updated to comply with the US OSHA HazCom 2012 Standard<br>replacing the current legislation under 29 CFR 1910.1200 to align with the Globally<br>Harmonized System of Classification and Labeling of Chemicals (GHS). |  |  |

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

# **End of SDS**