

Date of issue: 14/11/2017

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Succinic acid Product code(SDS NO): 7411E-1
 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka 540-0029,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp

2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture HEALTH HAZARDS Serious eye damage/eye irritation: Category 2A (Note) GHS classification without description: Not applicable/Out of classification/Not classifiable Label elements



Signal word: Warning HAZARD STATEMENT Causes serious eye irritation PRECAUTIONARY STATEMENT Prevention Wash contaminated parts thoroughly after handling. Wear eye protection/face protection. Response 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.

3. Composition/information on ingredients

Mixture/Substance selection: Substance Ingredient name:Succinic Acid Content(%):99(min) Chemical formula:HOOCCH2CH2COOH Chemicals No, Japan:2-846 CAS No.:110-15-6 MW:118.09 ECNO:203-740-4

Note : The figures shown above are not the specifications of the product.



ccurs: Get medical advice/attention.
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Safety treatments



Avoid contact with skin. Avoid contact with eyes. Safety Measures/Incompatibility Wear protective gloves, protective clothing or face protection. Wear eye protection/face protection. When using do not eat, drink or smoke. Conditions for safe storage, including any incompatibilities Recommendation for storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight.

8. Exposure controls/personal protection

Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.

Individual protection measures

Respiratory protection.
Wear respiratory protection.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

Safety and Health measures

Wash … thoroughly after handling.

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical properties Appearance: Crystals or crystalline powder Color: White Odor data N.A. Phase change temperature Initial Boiling Point/Boiling point data N.A. Melting point/Freezing point data N.A. Decomposition temperature data N.A. Flash point data N.A. Auto-ignition temperature data N.A. Explosive properties data N.A. Vapor pressure data N.A. Vapor density data N.A. Specific gravity/Density data N.A. Solubility Solubility in water: Soluble n-Octanol /water partition coefficient data N.A.



10. Stability and Reactivity
 Chemical stability
 Stable under normal storage/handling conditions.
 Conditions to avoid
 Contact with fire source.
 Hazardous decomposition products
 Carbon oxides
 Carbon oxides
 Contact with fire source
 Carbon oxides
 Contact source
 Contact source

11. Toxicological Information Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Company proprietary data] (Succinic Acid) rat LD50=2,260 mg/kg No Irritant properties data available No Allergenic and sensitizing effects data available No Mutagenic effects data available No Carcinogenic effects data available No Teratogenic effects data available No reproductive toxicity data available No STOT-single/repeated exposure data available No Aspiration hazard data available Additional data May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax 12. Ecological Information

Toxicity No Aquatic toxicity data available

No Persistence and degradability data available

No Bioaccumulative potential data available

No Mobility in soil data available

Ozone depleting chemical data not available

Disposal considerations
 Waste treatment methods
 Dispose of contents/container in accordance with local/national regulation.

14. Transport Information Not applicable to UN NO.

15. Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture US major regulations TSCA Succinic Acid



Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other information

GHS classification and labelling

Eye Irrit. 2A: H319 Causes serious eye irritation

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2017 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

General Disclaimer

This information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. It are advised to make their own tests to determinate the safety and suitability of each such product or combination for their own purposes.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2015).