

Date of issue: 23/04/2018

Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: D(+)-Raffinose,5-hydrate Product code(SDS NO): 6801E-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

 Hazards identification GHS classification and label elements of the product Classification of the substance or mixture (Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

 Composition/information on ingredients Mixture/Substance selection: Substance Ingredient name:D(+)-Raffinose,5-hydrate Content(%):-Chemical formula:C18H32O16•5H2O CAS No.:17629-30-0 MW:594.52

4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

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

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation or rash occurs: Get medical advice/attention.

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.

IF SWALLOWED

Rinse mouth.

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



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	re-fighting measures
E>	tinguishing media
	Suitable extinguishing media
~	Use appropriate extinguishing media suitable for surrounding facilities.
Sp	pecific hazards arising from the substance or mixture
	Containers may explode when heated.
	Fire may produce irritating, corrosive and/or toxic gases.
A	dvice for firefighters
	Specific fire-fighting measures
	Evacuate non-essential personnel to safe area.
	Special protective equipment and precautions for fire-fighters
	Wear fire/flame resistant/retardant clothing. Wear protective gloves/protective clothing/eye protection/face protection.
	Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.
	positive pressure mode.
6. Ac	cidental release measures
Pe	ersonnel precautions, protective equipment and emergency procedures
	Ventilate area after material pick up is complete.
	Wear proper protective equipment.
М	ethods and materials for containment and cleaning up
	Sweep up, place in a bag and hold for waste disposal.
Pr	reventive measures for secondary accident
	Collect spillage.
	indling and storage
Pr	recautions for safe handling
	Preventive measures
	(Protective measures against fire and explosion)
	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	Exhaust/ventilator
	Exhaust/ventilator should be available.
	Safety treatments
	Avoid contact with skin.
	Avoid contact with eyes.
	Safety Measures/Incompatibility
	Wear protective gloves, protective clothing or face protection.
	When using do not eat, drink or smoke.
C	onditions 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. Ex	posure controls/personal protection
	xposure 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

Individual protection measures



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

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical properties Appearance: Crystals or powder Color: White Odor data N.A. Phase change temperature Initial Boiling Point/Boiling point data N.A. Melting point/Freezing point: 77-81°C 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: 1.465 Solubility Solubility in water: Easily soluble n-Octanol /water partition coefficient data N.A.

10. Stability and Reactivity

Chemical stability
May be converted by the light.

Conditions to avoid

Contact with incompatible materials.
Contact with fire source.

Incompatible materials

Strong oxidizing agents
Hazardous decomposition products
Carbon oxides

11. Toxicological Information
Information on toxicological effects
No Acute toxicity data available
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
 Ecotoxicity
 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

13. 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

D(+)–Raffinose,5–hydrate

Other regulatory information

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

16. Other information

The product is not applicable to GHS classifications. Reference Book

erence 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) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2017 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information

Hazard Communication Standard - 2012

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 2016).