

Delta Cassette Storage Solution

Safety Data Sheet

according to JIS Z 7253 : 2019

Issue date: 2022.08.22 Revision date: 2022.08.22 Version No: 1.0 SDS Number: P2022081602

1. Chemical product and company identification

Substance name : Delta Cassette Storage Solution

Recommended use of the chemical and restrictions on use

Recommended use : Delta membrane cassette.

Company information

Pall Corporation
225 Marcus Boulevard
Hauppauge, NY 11788, USA

Telephone: +1 631-994-3735

Email: michael_diorio@pall.com

www.pall.com

Emergency telephone number

Emergency number : International: +1-703-527-3887

2. Hazards identification

GHS classification

Health hazards Serious eye damage/eye irritation Category 2

Hazard
pictograms
(GHS JP)



GHS Signal word : Warning

Hazard statements (GHS JP) : Causes serious eye irritation. (H319)

Precautionary statements (GHS JP)

Prevention : Wash hands, forearms and face thoroughly after handling. (P264)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response : IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If eye irritation persists: Get medical advice/attention. (P337+P313)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration (%)	Formula	Reference number in the gazette list		CAS-No.
			CSCL No.	ISHL No.	

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Ethyl alcohol	5	C2H6O	(2)-202	-	64-17-5
Acetic acid, sodium salt (2:1)	1	C4H7NaO4	(2)-692	-	126-96-5

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : 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.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

Most Important Symptoms/Effects

Symptoms/effects after eye contact : Eye irritation.

Notes to physician

Note to physician : Treat symptomatically.

5. Fire fighting measures

Suitable extinguishing media : Water spray, Dry powder, Foam, Carbon dioxide

Unsuitable extinguishing media : No data available

Hazardous decomposition products in case of fire : Toxic fumes may be released

Protective equipment for firefighters : Do not attempt to take action without suitable protective equipment.
Self-contained breathing apparatus.
Complete protective clothing.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area.
Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.
For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Environmental precautions : Avoid release to the environment.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

7. Handling and storage

Handling

Technical measures	: No data available
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Prevents handling of incompatible substances or mixtures	: No data available
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage

Storage conditions	: Store in a well-ventilated place. Keep cool.
Material used in packaging/containers	: No data available

8. Exposure controls / Personal protection equipment

Appropriate engineering controls	: Ensure good ventilation of the work station
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Protective equipment

Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Environmental exposure controls	: Avoid release to the environment.

9. Physical and chemical properties

Physical state	: Liquid [Transparent]
Colour	: Transparent
Odour	: Citric acid, alcohol.
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: 1.042
Relative gas density	: No data available
Solubility	: No data available

Partition coefficient n-octanol/water (Log Pow) : No data available
 Explosive limits (vol %) : No data available
 Viscosity, kinematic : No data available
 Particle size : No data available
 Particle size distribution : No data available
 Particle shape : No data available
 Particle aspect ratio : No data available
 Particle specific surface area : No data available

10. Stability and reactivity

Reactivity : The product is non-reactive under normal conditions of use, storage and transport.
 Chemical stability : Stable under normal conditions.
 Possibility of hazardous reactions : No dangerous reactions known under normal conditions of use.
 Conditions to avoid : None under recommended storage and handling conditions (see section 7).
 Incompatible materials : No data available
 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
 Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Ethyl alcohol (64-17-5)	
LD50 oral rat	15010 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 14450 - 15560
LC50 Inhalation - Rat	133.8 mg/l/4h
LC50 Inhalation - Rat (Dust/Mist)	> 99999 mg/l
Acetic acid, sodium salt (2:1) (126-96-5)	
LD50 oral rat	5600 mg/kg
LD50 dermal rat	> 2000 mg/kg

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory sensitization : Not classified (Based on available data, the classification criteria are not met)
 Skin sensitization : Not classified (Based on available data, the classification criteria are not met)
 Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

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Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

12. Ecological information

Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Based on available data, the classification criteria are not met)

Ethyl alcohol (64-17-5)	
LC50 - Fish [2]	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 - Crustacea [1]	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 - Other aquatic organisms [1]	5012 mg/l waterflea
EC50 - Other aquatic organisms [2]	275 mg/l
ErC50 algae	275 mg/l Source: ECHA
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 ° C (at pH 7.4)

Persistence and degradability

Delta Cassette Storage Solution	
Persistence and degradability	No data available

Ethyl alcohol (64-17-5)	
Persistence and degradability	Not established.

Bioaccumulative potential

Delta Cassette Storage Solution	
Bioaccumulative potential	No data available

Ethyl alcohol (64-17-5)	
Bioaccumulative potential	Not established.
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 ° C (at pH 7.4)

Mobility in soil

Delta Cassette Storage Solution	
Mobility in soil	No data available
Ethyl alcohol (64-17-5)	
Partition coefficient n-octanol/water (Log Pow)	-0.35 (at 24 ° C (at pH 7.4)

Hazardous to the ozone layer

Ozone : No data available
 Other adverse effects : No additional information available

13. Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector' s sorting instructions.

14. Transport information

International Regulations

Overland transport (UN RTDG)

UN-No. (UN RTDG) : Not Regulated
 Proper Shipping Name (UN RTDG) : Not Regulated
 Packing group (UN RTDG) : Not Regulated
 Transport hazard class(es) (UN RTDG) : Not Regulated

Transport by sea (IMDG)

UN-No. (IMDG) : Not Regulated
 Proper Shipping Name (IMDG) : Not Regulated
 Packing group (IMDG) : Not Regulated
 Transport hazard class(es) (IMDG) : Not Regulated

Air transport (IATA)

UN-No. (IATA) : Not Regulated
 Proper Shipping Name (IATA) : Not Regulated
 Packing group (IATA) : Not Regulated
 Transport hazard class(es) (IATA) : Not Regulated

Marine pollutant : Not Regulated

Regulations in Japan

Other information : No supplementary information available

15. Regulatory information

National law

Industrial Safety and Health Law : Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 2, Appended Table No.9)
 Dangerous Substances, Flammable Substances (Enforcement Order, Art., Appended Table 1, Item 4)
 Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2 Item 1 and 2, Appended Table 9)
 Ethanol (Ordinance number : 61) (under 5%)

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Act on the Prohibition of Chemical Weapons and Control, of Specific Chemicals	: Organic Chemical Substances (Act, Art.29-1, Enforcement Order, Art.4-1)
Air Pollution Control Law	: Volatile Organic Compounds (Act, Art.2, Para.4) (Environment Agency Notification to Prefectures)
Law Relating to Prevention of Marine Pollution and Maritime Disasters	: Oily mixture (Ordinance for Enforcement, Art.2-2) Harmless Substances (Enforcement Order, Art. Appended Table 1-2) Hazardous liquid substances (class X substances) and oily mixtures (Enforcement Ordinance Appendix 1 No. 1 a (81)) Harmful Liquid Substances (Group Z), (Enforcement Order, Art. Appended Table 1)
Foreign Exchange and Foreign Trade Control Act	: Approval for Item 2-2 (Import Trade Control Order, Art.4, Para. 1, Item 2) Export Trade Control Order, Appended Table 1, Para.16 Export Approval (Export Trade Control Order, Appended Table 2)
Law for the Control of Export, Import and Others of Specified Hazardous Wastes and Other Wastes (Basel Convention)	: Specified hazardous waste (Act, Art.2, Para.1-1 (a), Ministerial Ordinance No.12 of June 18, 2018)

16. Other information

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