

1. Chemical product and company identification

Substance name : Buffer solutions for exosome purification kit CATAROSEV(TM)
SDS Reference Number : 2451F

Recommended use of the chemical and restrictions on use

Recommended use : For research use
Restrictions on use : Seek expert judgment if the intended use is different from the recommended use

Company information

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2. Hazards identification

GHS classification

Physical hazards	Explosives	classification not possible	
	Flammable gases	No classification	
	Aerosol	classification not possible	
	Oxidizing gases	No classification	
	Gases under pressure	No classification	
	Flammable liquids	classification not possible	
	Flammable solids	No classification	
	Self-reactive substances and mixtures	classification not possible	
	Pyrophoric liquids	classification not possible	
	Pyrophoric solids	No classification	
	Self-heating substances and mixtures	classification not possible	
	Substances and mixtures which in contact with water emit flammable gases	classification not possible	
	Oxidizing liquids	classification not possible	
	Oxidizing solids	No classification	
	Organic peroxides	classification not possible	
	Corrosive to metals	classification not possible	
	Desensitized explosives	classification not possible	
	Health hazards	Acute toxicity (oral)	classification not possible
		Acute toxicity (dermal)	classification not possible
		Acute toxicity (inhalation:gas)	No classification
Acute toxicity (inhalation:vapours)		classification not possible	
Acute toxicity (inhalation:dust/mist)		No classification	
Skin corrosion/irritation		classification not possible	
Serious eye damage/eye irritation		classification not possible	
Respiratory sensitization		classification not possible	
Skin sensitization		classification not possible	
Germ cell mutagenicity		classification not possible	
Carcinogenicity		classification not possible	
Reproductive toxicity		classification not possible	
Specific target organ toxicity (single exposure)	classification not possible		
Specific target organ toxicity (repeated exposure)	classification not possible		
Aspiration hazard	classification not possible		

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according to JIS Z 7253:2019

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Stop leak if safe to do so.
Notify authorities if product enters sewers or public waters.
Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area.

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".
Emergency procedures : Evacuate unnecessary personnel.
Stop leak if safe to do so.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Methods and Equipment for Containment and Cleaning up

For containment : Absorb spilled material with sand or earth.
Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Stop leak without risks if possible.
Methods for cleaning up : Take up liquid spill into absorbent material.

7. Handling and storage

Handling

Technical measures : No data available
Precautions for safe handling : Ensure good ventilation of the work station.
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
Technical measures : Keep in a cool, well-ventilated place away from heat.
Packaging materials : Always store product in container of same material as original container.

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Ensure good ventilation of the work station.
Protective equipment
Personal protective equipment : Wear recommended personal protective equipment
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Environmental exposure controls : Avoid release to the environment.

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9. Physical and chemical properties

Physical state	: Liquid
Colour	: Colourless
Odour	: odourless
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	: No data available
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 characteristics	: 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)	: classification not possible
Acute toxicity (dermal)	: classification not possible
Acute toxicity (inhalation)	: Not applicable (gas) classification not possible (Vapour) Not applicable (dust, mist)
Skin corrosion/irritation	: classification not possible
Serious eye damage/irritation	: classification not possible
Respiratory sensitization	: classification not possible
Skin sensitization	: classification not possible
Germ cell mutagenicity	: classification not possible
Carcinogenicity	: classification not possible
Reproductive toxicity	: classification not possible
STOT-single exposure	: classification not possible
STOT-repeated exposure	: classification not possible
Aspiration hazard	: classification not possible

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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) : classification not possible
- Hazardous to the aquatic environment, long-term (chronic) : classification not possible

Persistence and degradability

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Persistence and degradability	Not rapidly degradable
trometamol (77-86-1)	
Persistence and degradability	Not rapidly degradable
sodium chloride (7647-14-5)	
Persistence and degradability	Not rapidly degradable
Water (7732-18-5)	
Persistence and degradability	Not rapidly degradable

Bioaccumulative potential

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Bioaccumulative potential	No data available

Mobility in soil

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Mobility in soil	No data available

Hazardous to the ozone layer

- Ozone : classification not possible

13. Disposal considerations

- Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
- Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Regional waste regulation : Disposal must be done according to official regulations.
- Sewage disposal recommendations : Disposal must be done according to official regulations.
- Additional information : Do not re-use empty containers.

14. Transport information

In accordance with UN RTDG

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International Regulations

United Nations Recommendations on the Transport of Dangerous Goods(UN RTDG)

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Regulations in Japan

Other information : If storage temperature is specified in Section 7, the same temperature conditions must be maintained during transportation.

15. Regulatory information

It is user's liabilities to take all necessary measures to meet local required laws and regulations

Other regulatory Information

Other information, restriction and prohibition regulations : Follow all of the laws and regulations in your country.

16. Other information

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