

SAFETY DATA SHEET

1st Edition: 13 Apr 2004

5th Edition: 22 Nov 2017

Section 1 – Identification of the Substance/Mixture and of the Company/Undertaking

Product name:	CLEANAC•3
Product code:	MEK-620
Supplier:	Nihon Kohden Corporation
Address:	1-31-4 Nishiochiai, Shinjuku-ku, Tokyo 161-8560, Japan
Telephone number:	+81 3-5996-8041
Fax:	+81 3-5996-8100
Website for contact:	http://www.nihonkohden.com/
Emergency telephone number:	1-800-424-9300; CHEMTREC (US) 613-996-6666; CANUTEC (Canada) +81 3-5996-8022 (Outside US and Canada)
Recommended use and restrictions on use:	Detergent for Nihon Kohden hematology analyzer

Section 2 – Hazards Identification

GHS classification:

	Item	Classification
Physical hazards	Explosives	Not applicable
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not applicable
	Flammable solids	Not applicable
	Self-reactive substances and mixtures	Not classified
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not applicable
	Self-heating substances and mixtures	Classification not possible
	Substances and mixtures which, in contact with water, emit flammable gases	Not classified
	Oxidizing liquids	Classification not possible
	Oxidizing solids	Not applicable
	Organic peroxides	Not applicable
	Corrosive to metals	Category 1
Health hazards	Acute toxicity (oral)	Not classified
	Acute toxicity (skin)	Classification not possible
	Acute toxicity (inhalation: gases)	Classification not possible
	Acute toxicity (inhalation: vapours)	Classification not possible
	Acute toxicity (inhalation: dusts)	Classification not possible
	Acute toxicity (inhalation: mists)	Classification not possible
	Skin corrosion/irritation	Not classified
	Serious eye damage/eye irritation	Not classified
	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
Environmental hazards	Aquatic toxicity (acute)	Category 1
	Aquatic toxicity (chronic)	Classification not possible

GHS label elements:

Pictograms or hazard symbols:



Signal word:

Warning

Hazard statement:

May cause metal corrosion.

At room temperature, the product slowly decomposes and gives off oxygen. Upon contact with acid which can oxidize, it decomposes to give off chlorine gas. The product corrodes metals and natural fabric upon contact.

When this product contacts acid solution, hypochlorous acid is given off which irritates skin and mucous membrane. When this product enters the eyes, there will be great pain and if not washed off immediately, the cornea will be damaged.

When the sodium hypochlorite mist is inhaled, it irritates the mucous membrane of the airway and causes burning pain and hoarse voice, and in rare cases, perforates esophagus or stomach.

Very toxic to aquatic life.

Section 3 – Composition/Information on Ingredients

Substance/mixture:

Mixture (sodium hypochlorite solution)

Composition:

Chemical Name	CAS No.	Composition (%)
Sodium hypochlorite (NaClO)	7681-52-9	1.0%

Section 4 – First Aid Measures

Inhalation:

If coughing because of inhaling chlorine gas, move the patient to fresh air and rest the patient for a while. In severe cases, immediately see a physician.

Skin contact:

Immediately wash thoroughly with running water.

Eye contact:

Immediately wash thoroughly with running water for more than 15 minutes and see a physician.

If clean lukewarm water is used, it may alleviate pain. Lukewarm water is more effective than cold water.

If the eyes are hurt by chlorine gas, keep eyes open under running water for more than 15 minutes and see a physician.

Ingestion:

Drink 30 to 50 g/L of sodium hydrogen carbonate solution or a lot of water, try vomiting the product, and immediately see a physician.

Section 5 – Fire-fighting Measures

Extinguishing media:

Water, powder extinguisher, foam extinguisher

Special fire fighting procedures:

The product is an aqueous solution. It is nonflammable and non-explosive.

Section 6 – Accidental Release Measures

Personal precautions, handling accidental leakage of the product and wearing protection:

The product damages clothes or skin on contact. Avoid direct contact with the product. Be sure to wear protection.

Environmental precautions:

Do not drain the product into public drainage or waterways in large amount.

Methods and materials for containment and cleaning up:

Small spill: Sweep the product into a container.

Large spill: Construct temporary dikes of sand to prevent spreading of the product. Try collecting the product.

Section 7 – Handling and Storage

Handling:

Precautions: Only use the product in specified procedures for specified use.
When temperature rises, pH decreases or heavy metal is mixed, the product gives off oxygen or chlorine gas.

Storage:

Incompatible substance: Avoid contact with acid.
Technical measures: Upon contact with acid, immediately neutralize with alkaline, such as sodium hydroxide or calcium hydroxide.
Storage conditions: Avoid direct sunlight and store at room temperature (1 to 30°C, 33.8 to 86°F).
Packing material: Polyethylene bag, cardboard case

Section 8 – Exposure Controls/Personal Protection

Engineering measures: Ventilation, washing and drainage
Personal protective equipment: Wear goggles, rubber gloves and overalls.

Section 9 – Physical and Chemical Properties

Appearance (physical state, color etc.):

Physical state: Liquid
Color: Yellow or yellow-green
Odor: Irritating odor (chlorine)
pH: 10.0 to 13.0
Solubilities: Dissolves in water.

Section 10 – Stability and Reactivity

Stability: Decomposing speeds up when temperature rises.
Possibility of hazardous reactions: Releases chlorine gas upon contact with acid.
Hazardous decomposition produce: Chlorine gas

Section 11 – Toxicological Information

Acute toxicity: No data
Oral rat LD₅₀: 12 mg/kg (sodium hypochlorite)

Section 12 – Ecological Information

Ecotoxicity: May cause ecological effect when leaked into public drainage or waterways in large amount.

Section 13 – Disposal Considerations

Waste of the remainder: Dispose of the product according to your local laws and your facility's guidelines for waste disposal.
Pollution container and wrapping: Dispose of the product according to your local laws and your facility's guidelines for waste disposal.

Section 14 – Transport Information

Transport hazard class:	8
UN number:	1791
UN proper shipping name:	Hypochlorite solution
Packing group:	III
IMDG Marine pollutant(Sea):	Yes
Special precautions for user:	Make sure that there is no leakage. Do not turn over, drop or damage the product containers when loading. Tie down the product containers to prevent load shifting. Releases chlorine gas upon contact with acid. Do not transport with acid.

Section 15 – Regulatory Information

None

Section 16 – Other Information

None

This data sheet is complete and accurate to the best of our knowledge but all information may not be covered. Any product may contain unknown harmful substances. This product must be handled carefully and used under the responsibility of the user, taking appropriate safety measures.