

MATERIAL SAFETY DATA SHEET

First Edition: 13 Apr 2004
Third Edition: 05 Mar 2012

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

Product name:	Hemolynac•H
Product code:	MEK-670
Supplier:	Nihon Kohden Corporation
Address:	1-31-4 Nishiochiai, Shinjuku-ku, Tokyo 161-8560, Japan
Telephone number:	+81 (3) 5996-8036
Fax:	+81 (3) 5996-8100
Website for contact:	http://www.nihonkohden.com/contact/intl.html
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:	Hemolysing reagent for Nihon Kohden hematology analyzer

Section 2 – Hazards Identification

GHS classification:

	Item	Products Classification
Physical hazardsS	Explosives	Not applicable
	Flammable gases	Not applicable
	Flammable aerosols	Not applicable
	Oxidizing gases	Not applicable
	Gases under pressure	Not applicable
	Flammable liquids	Not classified
	Flammable solids	Not applicable
	Self-reactive substances and mixtures	Not applicable
	Pyrophoric liquids	Not classified
	Pyrophoric solids	Not applicable
	Self-heating substances and mixtures	Not classified
	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	Classification not possible
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	Not classified
	Skin sensitization	Not classified
	Germ cell mutagenicity	Classification not possible
	Carcinogenicity	Not classified
	Reproductive toxicity	Classification not possible
	Specific target organ toxicity (single exposure)	Not classified
	Specific target organ toxicity (repeated exposure)	Not classified
Aspiration hazard	Classification not possible	
Environmental hazards	Aquatic toxicity (acute)	Category 3
	Aquatic toxicity (chronic)	Not classified

GHS label elements:

Pictograms or hazard symbols:	None
Signal word:	None
Hazard statement:	Toxic to aquatic organisms. Contact with acid produces poisonous hydrogen cyanide which is very dangerous. If disposed of in a river, it may affect life downstream. When this product enters the body through the mouth, nose or skin, the center of the brain is paralyzed and it causes apnea, spasm and death. When absorbed through the skin, sweat speeds up the absorption, and when there is a cut, the risk is greater.

Section 3 – Composition/Information on Ingredients

Substance/mixture: Mixture

Composition:

Chemical Name	CAS No.	Composition (w%)
Potassium cyanide (KCN)	151-50-8	0.007%

Section 4 – First Aid Measures

Inhalation:	The person giving first aid should wear protection. Immediately move the patient to fresh air and warm him/her and rest him/her for a while. Contact a physician. During rest, hold at 3 cm from the tip of the nose an ampule of aerosol amyl nitrite which was ripped open while wrapped in a cloth. Have the patient sniff for 15 seconds at 5 minute intervals 5 or 6 times.
Skin contact:	Wash thoroughly with running water.
Eye contact:	Wash thoroughly with running water and immediately contact a physician.
Ingestion:	Drink lukewarm salt water or 1% sodium thiosulfate solution, try to vomit the product, lie down and immediately contact a physician.

Section 5 – Fire-fighting Measures

Extinguishing media:	Water, powder extinguisher, foam extinguisher
Inappropriate extinguishing media:	Carbon dioxide extinguisher (Hydrogen cyanide may be released.)
Specific hazards:	Releases hazardous nitrogen oxide gas when burning.
Special fire fighting procedures:	This product is an aqueous solution and is nonflammable and non-explosive. If combustion occurs after evaporation, block the fire source and extinguish the fire using the powder extinguisher or foam extinguisher.

Section 6 – Accidental Release Measures

Personal precautions, handling accidental leakage of the product and wearing protection:	This product is highly poisonous and decomposes human body. Avoid direct contact with the product. Be sure to wear protection.
Environmental precautions:	Do not drain the product into public drainage or waterways in high concentration.
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. After recovery, make the product alkaline by mixing it with sodium hydroxide or soda lime and dissolve the cyanogen with sodium hypochlorite or bleach powder. Flush it away with large amount of water.

Section 7 – Handling and Storage

Handling:

Precautions:	Only use the chemical product in specified facilities and procedures.
Safe handling advice:	Avoid contact with acid. Hydrogen cyanide may be released.

Storage:

Technical measures:	This product contains hazardous ingredients. Store it in a safe place with a lock, always check the amount and take necessary measures against misuse.
Incompatible substance:	Avoid contact with acid.
Storage conditions:	Avoid direct sunlight and store at room temperature (1 to 30°C, 33.8 to 86°F).
Packing material:	Polyethylene

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:	None

Odor: Slight

pH: 8.1 to 8.8

Solubilities: Dissolves in water.

Section 10 – Stability and Reactivity

Stability:	Cyanide is decomposed when the product contacts carbon dioxide or acid in the air.
Possibility of hazardous reactions:	Releases hydrogen cyanide when the product contacts acid.
Hazardous decomposition produce:	Hydrogen cyanide

Section 11 – Toxicological Information

Acute toxicity:	No data
Oral rat LD ₅₀ :	5 mg/kg (potassium cyanide)
Lethal dose when drank by human:	150 to 200 mg (potassium cyanide)

Section 12 – Ecological Information

Ecotoxicity:	May cause ecological effect when leaked into public drainage or waterways in large amount.
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Section 13 – Disposal Considerations

Waste of the remainder:	Add sodium hypochlorite solution and leave it for over 30 minutes to dissolve cyanide. Then, add ammonium chloride to neutralize it and dilute it with a lot of water. Dispose of it in accordance with your local laws.
Pollution container and wrapping:	Wash the contaminated part with water and dispose of the product container according to your local laws. Treat the water after washing in the same way as waste of the remainder.

Section 14 – Transport Information

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 hydrogen cyanide upon contact with acid. Do not transport with acid.

Section 15 – Regulatory Information

None

Section 16 – Other Information

References

Registry of Toxic Effects of Chemical Substances NIOSH

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.



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