

Ink Cartridge(LM) (MSDS:H086041-00-05-NA-E)

Section 1. Chemical product and company identification

Common name : Ink Cartridge(LM) (H086041-00)
Material uses : Ink
Supplier/ Manufacturer : NK Works Co., Ltd, 579-1, Umehara, Wakayama-shi, 640-8550, Japan
 Phone: +81 73 456 3969 Fax: +81 73 456 3991
 Email: msds@noritsu.com
In case of emergency : CHEMTREC,U.S : (800)424-9300 International : (703)527-3887

Section 2. Hazards identification

Physical state : Liquid.
Emergency overview : No specific hazard.
 USE WITH CARE.
 Follow good industrial hygiene practice.
Routes of entry : Dermal contact. Eye contact. Inhalation. Ingestion.
Potential acute health effects
Eyes : No known significant effects or critical hazards.
Skin : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.
Potential chronic health Effects : Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
 Mutagenic effects: Not available.
 Teratogenic effects: Not available.
Medical conditions aggravated by overexposure : Repeated or prolonged exposure is not known to aggravate medical condition.
 See toxicological Information (section 11)

Section 3. Composition, Information on Ingredients

		CAS number	% by weight
United States			
Glycerin, (Glycerol)		56-81-5	15- 20
Canada			
Glycerin, (Glycerol)		56-81-5	15 - 20
Mexico			
	UN number	IDLH	H
	F	R	Special
Glycerin, (Glycerol)	Not regulated.	-	0 1 0
		56-81-5	15 - 20

This material is classified as not hazardous under OSHA regulations in the United States, the WHMIS in Canada and the NOM-018-STPS-2000 in Mexico.

See Chapters 8, 11 and 14 for details.

Section 4. First aid measures

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 Get medical attention immediately.
Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes

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while removing contaminated clothing and shoes. Wash clothing before reuse.

- Inhalation** : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
- Ingestion** : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.
- Notes to physician** : No specific antidote. Medical staff must contact Poison Control Center.

Section 5. Fire fighting measures

- Flammability of the product** : Non-flammable.
- Fire fighting media and Instructions** : Use an extinguishing agent suitable for surrounding fires.
- No specific hazard.
- Special protective equipment for fire-fighters** : Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full facepiece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
- Methods for cleaning up** : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and storage

- Handling** : Wash thoroughly after handling.
- Storage** : Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls, Personal Protection

- Engineering controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
- Personal protection**
- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
Recommended: Safety glasses.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



- Hands** : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
>8 hour(s) (breakthrough time): Disposable vinyl gloves.
- Skin/Body** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Body: Recommended: Lab coat.



Personal protection in case of a large spill : Safety glasses, goggles or face shield. Impervious gloves. Full suit. Boots. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.

Product name
United States

Glycerin, (Glycerol)

Exposure limits

ACGIH TLV (United States, 9/2004).

TWA: 10 mg/m³ 8 hour(s). Form: Mist

OSHA PEL (United States, 8/1997).

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m³ 8 hour(s). Form: All forms.

Canada

Glycerin, (Glycerol)

ACGIH TLV (Canada, 9/2004).

TWA: 10 mg/m³ 8 hour(s). Form: Mist

Mexico

Glycerin, (Glycerol)

NOM-010-STPS (Mexico, 12/1999).

CPT: 10 mg/m³ 8 hour(s). Form: Mist

Consult local authorities for acceptable exposure limits.

Section 9. Physical and chemical properties

- Physical state** : Liquid.
- Color** : Light Magenta
- Odor** : Slightly.
- PH** : 8.6-10.0
- Boiling/condensation point** : The lowest known value is 100°C (212°F) (Water).
- Melting/freezing point** : <0°C (32°F)
- Specific gravity** : 1.07 (Water = 1)
- Vapor pressure** : The highest known value is 0.62 (Air = 1) (Water).
- Vapor density** : The highest known value is 2.3 kPa (17.5 mm Hg) (at 20°C) (Water).
- Ionicity (in water)** : Amphoteric. (Water).
- Dispersion properties** : See solubility in water, methanol, acetone.
- Solubility** : Miscible in water.

Section 10. Stability and reactivity

- Stability and reactivity** : The product is stable.
- Incompatibility with various substances** : Reactive with oxidizing agents.
- Hazardous polymerization** : Will not occur.

Section 11. Toxicological information

Acute Effects

Eyes	: No known significant effects or critical hazards.
Skin	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Potential chronic health Effects	: Carcinogenic effects: Not classified or listed by IARC, NTP, OSHA, EU and ACGIH. Mutagenic effects: Not available. Teratogenic effects: Not available.

Section 12. Ecological information

Products of degradation : These products are carbon oxides (CO, CO₂) and water .

Section 13. Disposal considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport information

Classification :

Mexico / TDG/ DOT/ IMDG/ IATA: Not regulated.

NAERG : Not available.

Label

Not applicable.

Additional information

Not applicable.

Section 15. Regulatory information

United States

U.S. Federal regulations : TSCA : All components listed.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Glycerin, (Glycerol)
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Glycerin, (Glycerol): Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

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State regulations : Pennsylvania RTK: Glycerin, (Glycerol): (generic environmental hazard)
Massachusetts RTK: Glycerin, (Glycerol)

Canada
WHMIS (Canada) : Not controlled under WHMIS (Canada).
DSL : All components listed.

Mexico
Classification :



International regulations
International lists : All components listed are listed on major international inventories or exempted from being listed in Australia (AICS), Europe (EINECS/ELINCS), Korea (TCCL), Japan (METI/MOL), Philippines (RA6969).

Section 16. Other information

Hazardous Material
Information System (U.S.A.) :

Health	0
Fire hazard	1
Reactivity	0
Personal protection	C

National Fire Protection
Association (U.S.A.) :



References : ANSI Z400.1, MSDS Standard, 2001. -Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List". - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002. - Official Mexican Standards NOM-018-STPS-2000 and NOM-004-SCT2-1994.

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.