

## MATERIAL SAFETY DATA SHEET

MSDS No. : 1HW001

Date: Dec 27, 2008

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### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

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**Product Name:** NIKKASAN LACQUE HW  
**Name of Manufacturer:** Nihon Kagaku Sangyo Co., Ltd.  
**Name of Section:** International Affairs Division

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### 2. HAZARDS IDENTIFICATION

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#### GHS classification

<b>Physical Hazards</b>	Flammable Liquids:	Category 3
	Pyrophoric Liquids:	Not classified
	Substances and mixtures which, in contact with water, emit flammable gases:	Not classified
<b>Health Hazards</b>	Oxidizing Liquids:	Not classified
	Acute Toxicity (Oral):	Category 5
	Acute Toxicity (Dermal):	Category 5
	Acute Toxicity (Inhalation):	Category 5
	Skin corrosion/irritation:	Category 3
	Serious eye damage/eye irritation:	Category 2A
	Carcinogenicity:	Not classified
	Reproductive Toxicity:	Category 2
STOT-Single exposure:	Category 1 (Central nervous system, Kidney, Whole body toxicity)	
STOT-Repeated exposure:	Category 2	

#### Environmental Hazards

Hazardous to the aquatic environment-Acute: Category 3

※ Items other than the above-mentioned can not be classified.

#### Symbols



#### Signal words

Danger

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**Hazard statements**

- Flammable liquid and vapour
- Maybe harmful if swallowed
- Maybe harmful in contact with skin
- Maybe harmful if inhaled
- Cause mild skin irritation
- Cause serious eye irritation
- Suspected of causing fertility or the unborn child
- May cause damage to organs
- Harmful to aquatic life

**Precautionary statements**

- Keep away from ignition sources.
- Use with an adequate ventilation.
- Wear suitable protective gloves, goggles, mask and clothing to avoid contact with skin and eyes.
- FOR SKIN : Wash the affected area with plenty of water or tepid water using a mild soap and get medical advice.
- FOR EYES : Immediately rinse the affected eyes with plenty of clean water for at least 15minutes and get medical advice.
- FOR INHALATION : Wash nostrils with plenty of water and get medical advice.
- FOR INGESTION : Immediately wash out mouth with plenty of water. Do not induce vomiting, and get medical care soon.
- Keep away from high temperature, moisture and sunlight.

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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<b>Chemical or Mixture :</b>	Mixture
<b>Chemical Name :</b>	This product is water solution which contains Isopropyl alcohol and Polyacrylate. 1) Isopropyl alcohol 2) Polyacrylate
<b>Content :</b>	1) 10~20%
<b>Chemical Formula :</b>	1) (CH <sub>3</sub> ) <sub>2</sub> CHOH 2) Exist
<b>CAS Registry Number:</b>	1) 67-63-0 2) Exist
<b>EINECS:</b>	1) 200-661-7 2) Exist
<b>TSCA:</b>	1) Registered 2) Exist
<b>UN Dangerous Goods Number:</b>	1263
<b>UN Classification:</b>	3.3(Flammable liquid)

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#### 4. FIRST AID MEASURES

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**Skin Contact :** • Wash affected skins area thoroughly with plenty of water or tepid water, and soap.

- Dispose of the contaminated clothing.

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes. Get medical care from an ophthalmologist if necessary.

**Inhalation:** Immediately move to fresh air. Get medical care soon.

**Ingestion:** Rinse the mouth with plenty of water. Do not induce vomiting. Get medical care soon.

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#### 5. FIRE FIGHTING MEASURES

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**Fire Fighting Measures:**

- Shut off flammable material to fire and put out a fire by a extinguishing agent.
- Cool the circumference of fire by water spray to avoid the spread of a fire.
- Do not direct a solid stream of water into hot, burning pools, which this may increase fire intensity and spread a fire.
- Fire-fighting should be done from windward and wear proper protective device such as a supplied-air mask.
- Move containers from fire area if possible, when a fire happens around the storage of this material.
- Cool the circumference of this material, when it is impossible to move.

**Extinguishing Media:**

Dry chemical, carbon dioxide, dry sand and foam compound

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#### 6. ACCIDENTAL RELEASE MEASURES

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- Evacuate people around spill area and prohibit people except for the persons who concern from approaching around spill area.
- Remove the source of ignition around spill area soon.
- Prohibit use of fire strictly around spill area.
- Use only safe tools without a spark when recovering.
- Recovering should be done from windward and wear proper protective device such as a supplied-air mask.
- In the case of less spill : Contain spills with inert materials(eg. dry sand) or absorbent materials(eg. oil mat) and recover them into vacant containers. Wipe around spill area by inert or absorbent materials.
- In the case of much spill : Dike by inert materials(eg. earth and sand) to avoid the drain of this product. Transfer liquids and solids diking material to vacant containers for recovery or disposal.
- Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

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## 7. HANDLING AND STORAGE

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### Handling:

- Wear proper protective device to avoid inhalation and contact with eyes, skin and clothing. Always handle this product from windward.
- Use only in well-ventilated areas.
- Take care of leakage or spill to avoid vaporization of this product.
- Avoid rough handling such as tipping over, dropping, impacting or pulling around containers.
- Wash well the emptied containers after use and keep them at the fixed place.
- Eliminate the source of ignition such as a spark and a flame in working place.
- Avoid to contact with strong oxidizing agents.
- Use the explosion proof machines and instruments. Make sure to connect to ground.

### Storage:

- Keep container tightly closed in a cool and dark place. Avoid to contact with air.
  - Use the explosion proof machines and instruments in a storage area. Make sure to connect to ground.
  - Keep away from incompatible material such as strong oxidizing agent.
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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

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**Exposure Limit:** ACGIH: 200ppm (Isopropyl alcohol)

### Personal Protective Equipment:

- Not recommended for interior use on large surface areas.
  - Use local exhaust in the work area.
  - Wear respiratory protective device such as gas mask for organic gas and supplied-air mask, safety glasses, protective gloves and protective boots to avoid exposure to this material.
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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Light yellow viscous liquid
<b>Density :</b>	1.0 (20°C)
<b>Boiling Point:</b>	Not available
<b>Melting Point:</b>	Not available
<b>Water Solubility:</b>	Insoluble
<b>Flash Point :</b>	32.2°C (TCC)
<b>Ignition Point:</b>	Not available

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## 10. STABILITY AND REACTIVITY

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- Stability :** • Stable at normal handling.
- Reactivity :** • May ignite by mixing with strong oxidizing agent.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Acute Toxicity:</b>	Human	Oral	LDLo (lowest published lethal doses)	3570mg/kg
(Isopropyl alcohol)	Rat	Oral	LD <sub>50</sub> (lethal dose 50% kill)	5045mg/kg
	Rabbit	Dermal	LD <sub>50</sub> (lethal dose 50% kill)	12800mg/kg
	Rat	Inhalation	LC <sub>50</sub> (lethal dose 50% kill)	72600 mg/m <sup>3</sup>
<b>Skin corrosion/irritation:</b>		Rabbit	500mg	Mild
<b>Serious eye damage / eye irritation:</b>		Rabbit	10mg	Moderate
<b>Mutagenicity :</b>	Rat	Inhalation	Cell analysis	1030ug/m <sup>3</sup> /16w-1
<b>Carcinogenicity:</b>	IARC Category 3 (The agent (mixture) is not classifiable as to carcinogenicity to humans.)			
<b>Reproductive :</b>	Rat	Oral	LDL <sub>0</sub> (lowest published lethal dose)	32400mg/kg    Death of fetus

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## 12. ECOLOGICAL INFORMATION

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Not available

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## 13. DISPOSAL CONSIDERATIONS

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• Do not dump this material into sewers, on the ground or into any body of water. Please contact the specialists. Be sure to mention name and quantity etc of the material.

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## 14. TRANSPORT INFORMATION

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- See HANDLING AND STORAGE above.
  - Load safely without giving any damage (such as falling and dropping) during transportation.
  - Do not transport with incompatible material such as strong oxidizing agent.
  - **UN Dangerous Goods Number :** 1263
  - **UN Classification :** 3.3 (Flammable liquid)
  - Follow all regulations in your country.
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## 15. REGULATORY INFORMATION

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This product is listed on TSCA Inventory.

This product is listed on EINECS.

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## 16. OTHER INFORMATION

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