

## 1. Product and Company Identification

**Product Name:** JP-W89  
**Company Name:** Hitachi Industrial Equipment & Solutions America, LLC  
2730 Greenleaf Avenue  
Elk Grove Village, IL 60007  
**Phone Number:** (866)583-0048  
**Web site address:** <https://www.hitachi-iesa.com/industrial-marking-and-coding>  
**Emergency Contact:** Chemtrec (800)424-9300  
**Information:** Christian Krzykwa (980)500-7144  
**Intended Use:** Printing ink

## 2. Hazards Identification

Flammable Liquids, Category 2  
Serious Eye Damage/Eye Irritation, Category 2A  
Specific Target Organ Toxicity (single exposure), Category 3  
Serious Eye Damage/Eye Irritation, Category 2B  
Carcinogenicity, Category 2  
Flammable Liquids, Category 3  
Acute Toxicity: Oral, Category 5  
Acute Toxicity: Inhalation, Category 5  
Germ Cell Mutagenicity, Category 1B  
Toxic To Reproduction, Category 1B  
Aspiration Toxicity, Category 2



**GHS Signal Word:** **Danger**

**GHS Hazard Phrases:** H225 - Highly flammable liquid and vapor.  
H226 - Flammable liquid and vapor.  
H303 - May be harmful if swallowed.  
H305 - May be harmful if swallowed and enters airways.  
H319 - Causes serious eye irritation.  
H320 - Causes eye irritation.  
H333 - May be harmful if inhaled.  
H336 - May cause drowsiness or dizziness.  
H340 - May cause genetic defects .  
H351 - Suspected of causing cancer .  
H360 - May damage fertility or the unborn child .

**GHS Precautionary Phrases:** P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground/bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
P242 - Use only non-sparking tools.  
P243 - Take precautionary measures against static discharge.  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.  
P264 - Wash hands thoroughly after handling.

**GHS Response Phrases:**

P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+313 - IF exposed or concerned: Get medical attention/advice.  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.  
P331 - Do NOT induce vomiting.  
P337+313 - If eye irritation persists, get medical advice/attention.

**GHS Storage and Disposal Phrases:**

P403+233 - Store container tightly closed in a cool and well-ventilated place.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local regulations.

**Emergency Overview:**

**Potential Health Effects (Acute and Chronic):**

Hazards not otherwise classified (HNOC) or not covered by GHS. Hazards not otherwise classified (HNOC) or not covered by GHS -none.

**3. Composition/Information on Ingredients**

CAS #	Hazardous Components (Chemical Name)	Concentration
78-93-3	Methyl ethyl ketone	40.0 -50.0 %
13463-67-7	Titanium dioxide	10.0 -20.0 %
64-17-5	Ethyl alcohol	1.0 -10.0 %
71-36-3	n-Butyl alcohol	1.0 -3.0 %
78-92-2	sec-Butyl alcohol	< 0.1 %
67-56-1	Methanol	< 0.1 %

**4. First Aid Measures**

**Emergency and First Aid Procedures:**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**In Case of Inhalation:**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In Case of Skin Contact:**

Wash off with soap and plenty of water. Consult a physician.

**In Case of Eye Contact:**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Flush eyes with water as a precaution.

**In Case of Ingestion:**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Signs and Symptoms Of Exposure:**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**Indication of any immediate medical attention and special treatment needed:**

No data available.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	-8.10 C (17.4 F) Method Used: Closed Cup
<b>Explosive Limits:</b>	LEL: 1.8vol% at 2.0 C (35.6 F) UEL: 11.5vol% at 20.0 C (68.0 F)
<b>Autoignition Pt:</b>	505.00 C (941.0 F)
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
<b>Fire Fighting Instructions:</b>	Wear self contained breathing apparatus for fire fighting if necessary. Further information.
<b>Flammable Properties and Hazards:</b>	Carbon oxides, Flash back possible over considerable distance. Container explosion may occur under fire conditions. No data available.
<b>Hazardous Combustion Products:</b>	No data available.

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8. Avoid dust formation. Avoid breathing dust.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

<b>Precautions To Be Taken in Handling:</b>	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
<b>Precautions To Be Taken in Storing:</b>	Keep container tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Hygroscopic. Storage class 510) Keep in a dry place. Storage class (TRGS 510): Non Combustible Solids
<b>Other Precautions:</b>	Apart from the uses mentioned in section 1 no other specific uses are stipulated. Apart from the uses mentioned in section 1 no other specific uses are stipulated.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Methyl ethyl ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.
13463-67-7	Titanium dioxide	PEL: 15 (dust) mg/m3	No data.	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	No data.
71-36-3	n-Butyl alcohol	PEL: 100 ppm	TLV: 20 ppm	No data.
78-92-2	sec-Butyl alcohol	PEL: 150 ppm	TLV: 100 ppm	No data.

67-56-1 Methanol

PEL: 200 ppm

TLV: 200 ppm  
STEL: 250 ppm

No data.

**Personal Protective Equipment Symbols:**



**Respiratory Equipment (Specify Type):**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Wear respiratory protection.

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143 dust masks. Respiratory:

**Eye Protection:**

Face shield and safety glasses. Safety glasses with side-shields conforming to EN166.

**Protective Gloves:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Splash contact:

Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 292 min.

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario. Full contact.

Material: Nitrile rubber Minimum layer thickness: 0.11 mm.

**Other Protective Clothing:**

Impervious clothing. Flame retardant antistatic protective clothing. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Engineering Controls (Ventilation etc.):**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Environmental Exposure Controls:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**9. Physical and Chemical Properties**

**Physical States:** [ ] Gas [ X ] Liquid [ X ] Solid

**Appearance and Odor:** White.  
solvent odor.

**pH:** No data.

**Melting Point:** No data.

**Boiling Point:** 80.00 C (176.0 F)

**Flash Pt:** -8.10 C (17.4 F) Method Used: Closed Cup

**Evaporation Rate:** No data.

**Flammability (solid, gas):** No data available.

**Explosive Limits:** LEL: 1.8vol% at 2.0 C (35.6 F) UEL: 11.5vol% at 20.0 C (68.0 F)

**Vapor Pressure (vs. Air or mm Hg):** 10.5 kPa

No data.

<b>Vapor Density (vs. Air = 1):</b>	2.41(Air=1)
<b>Specific Gravity (Water = 1):</b>	.95
<b>Solubility in Water:</b>	29g/mL at 20.0 C (68.0 F)
<b>Saturated Vapor Concentration:</b>	No data.
<b>Octanol/Water Partition Coefficient:</b>	No data.
<b>Autoignition Pt:</b>	505.00 C (941.0 F)
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	No data.
<b>Explosive Properties:</b>	No data available.
<b>Oxidizing Properties:</b>	No data available.
<b>Information with regard to primary physical hazard:</b>	

## 10. Stability and Reactivity

<b>Reactivity:</b>	No data available.
<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Exposure to moisture. Heat, No data available. flames and sparks.
<b>Incompatibility - Materials To Avoid:</b>	Oxidizing agents, Strong reducing agents, Strong acids, Strong oxidizing agents. Bases, Alkali metals, Halogens.
<b>Hazardous Decomposition or Byproducts:</b>	No data available. In the event of fire: see section 5. Hazardous decomposition products formed under fire conditions. Titanium/titanium oxides.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	Vapors may form explosive mixture with air. No data available.

## 11. Toxicological Information

<b>Toxicological Information:</b>	Acute toxicity.
	Germ cell mutagenicity: No data available.
	Reproductive toxicity. Aspiration hazard: Hamster ovary.
	Micronucleus test. Hamster.
	Lungs.
	DNA inhibition.
	Sister chromatid exchange: Mouse.
	Inhalation: Dermal.
	CAS# 78-93-3:
	1. Acute toxicity, TClO, Inhalation, Human, 100.0 PPM, 5 M.
	Result:
	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.
	Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation.
	Lungs, Thorax, or Respiration:Other changes.

- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

2. Acute toxicity, LD50, Oral, Mouse, 4050. MG/KG.

Result:

Behavioral: Sleep.

Behavioral: Headache.

Gastrointestinal:Nausea or vomiting.

- Toxicology Letters., Elsevier Science Pub. B.V., POB 211, 1000 AE, Amsterdam 1000 AE Netherlands, Vol/p/yr: 30,13, 1986

3. Acute toxicity, LC50, Inhalation, Mouse, 32.00 GM/M3, 4 H.

Result:

Gastrointestinal: Alteration in gastric secretion.

Gastrointestinal:Other changes.

- Current Toxicology, Nova Science Publishers, Inc., 6080 Jericho Turnpike, Suite 207, Commack, NY 11725, Vol/p/yr: 1,47, 1993

4. Acute toxicity, LD50, Intraperitoneal, Mouse, 616.0 MG/KG.

Result:

Behavioral: Change in motor activity (specific assay).

Behavioral: Ataxia.

Behavioral: Antipsychotic.

- Shell Chemical Company. Unpublished Report., Vol/p/yr: -,6, 1961

5. Acute toxicity, LD50, Skin, Species: Rabbit, 6480. MG/KG.

Result:

Behavioral: Hallucinations, distorted perceptions.

Endocrine:Effect on menstrual cycle.

- Shell Chemical Company., Vol/p/yr: MSDS-5390-,

6. Acute toxicity, TCLo, Inhalation, Human, 10.00 ppm.

Result:

Cardiac: Pulse rate decreased with fall in BP.

Lungs, Thorax, or Respiration:Other changes.

- Neurotoxicology., Intox Press, Inc., POB 34075, Little Rock, AR 72203, Vol/p/yr: 24,179, 2003

7. Acute toxicity, LC50, Inhalation, Mouse, 32.00 mg/m3.

Result:

Liver: Fatty liver degeneration.

8. Standard Draize Test, Eyes, Human, 350.0 PPM.

Result:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria.

Gastrointestinal:Tumors.

Liver: Tumors.

- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

9. Standard Draize Test, Skin, Species: Rabbit, 500.0 MG, 24 H.

Result:

Behavioral: Ataxia.

Lungs, Thorax, or Respiration:Dyspnea.

Gastrointestinal:Hypermotility, diarrhea.

- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

**Irritation or Corrosion:**

Skin corrosion/irritation.  
Result: Tumorigenic:Tumors at site or application. No skin irritation . (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes -Rabbit  
Irritating to eyes . Skin: Human.  
Result: Mild skin irritation -3 Serious eye damage/eye irritation: Eyes. Rabbit.  
No data available. Serious eye damage/eye irritation no data available.

**Sensitization:**

No data available. Will not occur.

**Chronic Toxicological Effects:**

Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.  
Specific target organ toxicity -repeated exposure: no data available. No data available.  
Specific target organ toxicity -single exposure (Globally Harmonized System)

**Carcinogenicity/Other Information:**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.  
ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.  
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.  
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Carcinogenicity. Rat.  
Inhalation. Tumorigenic: Carcinogenic by RTECS criteria. Lungs, Thorax, or Respiration: Tumors.  
Carcinogenicity - rat - Intramuscular. Result: Tumorigenic:Neoplastic by RTECS criteria.  
Blood: Lymphomas including Hodgkin's disease. Tumorigenic:Tumors at site or application.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	Methyl ethyl ketone	n.a.	n.a.	n.a.	n.a.
13463-67-7	Titanium dioxide	n.a.	2B	Unknown	n.a.
64-17-5	Ethyl alcohol	n.a.	1	Unknown	n.a.
71-36-3	n-Butyl alcohol	n.a.	n.a.	n.a.	n.a.
78-92-2	sec-Butyl alcohol	n.a.	n.a.	n.a.	n.a.
67-56-1	Methanol	n.a.	n.a.	n.a.	n.a.

**12. Ecological Information**

**General Ecological Information:**

No data available.

**Results of PBT and vPvB assessment:**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Persistence and Degradability:**

No data available.

**Bioaccumulative Potential:**

No data available.

**Mobility in Soil:**

No data available.

**Other adverse effects:**

No data available.



### 13. Disposal Considerations

**Waste Disposal Method:** Product:  
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.  
Contaminated packaging:

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Printing ink.  
**DOT Hazard Class:** 3 FLAMMABLE LIQUID  
**UN/NA Number:** UN1210 **Packing Group:** II



**LAND TRANSPORT (Canadian TDG):**

**TDG Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID **TDG Classification:**

**LAND TRANSPORT (European ADR/RID):**

**ADR/RID Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

**MARINE TRANSPORT (IMDG/IMO):**

**IMDG/IMO Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

**AIR TRANSPORT (ICAO/IATA):**

**ICAO/IATA Shipping Name:** Printing ink.  
**UN Number:** UN1210 **Packing Group:** II  
**Hazard Class:** 3 - FLAMMABLE LIQUID

### 15. Regulatory Information

**EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists**

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl ethyl ketone	No	Yes NA	No
13463-67-7	Titanium dioxide	No	No	No
64-17-5	Ethyl alcohol	No	No	No
71-36-3	n-Butyl alcohol	No	Yes NA	Yes
78-92-2	sec-Butyl alcohol	No	No	Yes
67-56-1	Methanol	No	Yes NA	Yes

**This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:**

<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Explosive	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Acute toxicity (any route of exposure)
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Flammable (gases, aerosols, liquid, or solid)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Skin Corrosion or Irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Oxidizer (liquid, solid or gas)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Serious eye damage or eye irritation
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-reactive	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Respiratory or Skin Sensitization
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric (liquid or solid)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Carcinogenicity



- |   |   |   |  |
|---|---|---|--|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Self-heating                                      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Reproductive toxicity  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Organic peroxide                                  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Specific target organ toxicity (single or repeated exposure) |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corrosive to metal                                | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Aspiration Hazard  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Gas under pressure (compressed gas)               | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Simple Asphyxiant  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | In contact with water emits flammable gas         | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Health) Hazard Not Otherwise Classified (HNOC)              |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Combustible Dust                                  |   |  |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Physical) Hazard Not Otherwise Classified (HNOC) |   |  |

**California Proposition 65**



**WARNING**

This product can expose you to chemicals including Titanium dioxide, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

<b>CAS #</b>	<b>Hazardous Components (Chemical Name)</b>	<b>Other US EPA or State Lists</b>
78-93-3	Methyl ethyl ketone	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: NC TAP
13463-67-7	Titanium dioxide	TSCA: Inventory CA PROP.65: Yes: Canc.
64-17-5	Ethyl alcohol	TSCA: Inventory CA TAC, Title 8: Title 8
71-36-3	n-Butyl alcohol	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IVb, Title 8
78-92-2	sec-Butyl alcohol	TSCA: Inventory, 8A PAIR CA TAC, Title 8: TAC: Cat. IVb, Title 8
67-56-1	Methanol	TSCA: Inventory CA PROP.65: Yes: RDTox. CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: US HAP

<b>CAS #</b>	<b>Hazardous Components (Chemical Name)</b>	<b>International Regulatory Lists</b>
78-93-3	Methyl ethyl ketone	Mexico INSQ: 1193 Japan ENCS: 2-542 Germany WHCS: 150: WGK 1 Switzerland Giftliste 1: G-2429 REACH: 01-2119457290-43: Full, (P)
13463-67-7	Titanium dioxide	Japan ENCS: 5-5225 Japan ISHL: 2-(3)-509 Israel HSL: Cat. Germany WHCS: 1345: WGK 0/nwg Switzerland Giftliste 1: G-2950 REACH: 01-2119489379-17: Full, (P)
64-17-5	Ethyl alcohol	Japan ENCS: 5-153 Israel HSL: Cat. Germany WHCS: 96: WGK 1 Switzerland Giftliste 1: G-1158 REACH: 01-2119457610-43: Full, (P)
71-36-3	n-Butyl alcohol	Japan ENCS: 7-321 Japan ISHL: 2-(8)-299 Israel HSL: Cat. Germany WHCS: 39: WGK 1 Switzerland Giftliste 1: G-1321 REACH: 01-2119484630-38: Full, (P)
78-92-2	sec-Butyl alcohol	Japan ENCS: 2-3049 Japan ISHL: 2-(8)-300

67-56-1 Methanol

Israel HSL: Cat.  
Germany WHCS: 40: WGK 1  
Switzerland Giftliste 1: G-1318  
REACH: 01-2119475146-36: Full, (P)  
Japan ENCS: 7-322  
Israel HSL: Cat.  
Germany WHCS: 145: WGK 1  
Switzerland Giftliste 1: G-2063  
REACH: 01-2119433307-44: Full, (P)

**16. Other Information**

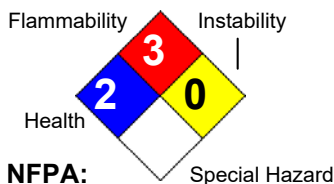
**Revision Date:** 12/08/2022

**Previous revision:** 08/15/2018

**Hazard Rating System:**

<b>HEALTH</b>		<b>2</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL</b>		<b>0</b>
<b>PPE</b>		<b>B</b>

**HMIS:**



**Additional Information About This Product:** To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information presented in this document. Final determination of suitability of any material is the sole responsibility of the user to follow local, state and federal laws and regulations in regards to handling of hazardous materials. Although certain hazards are described herein, unknown hazards may exist and caution should always be exercised.

Hitachi Contact Information:  
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(980)500-7144

**Company Policy or Disclaimer:**