

## 1. Product and Company Identification

**Product Name:** JP-O311ci, 1311Oci  
**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 2  
Acute Toxicity: Oral, Category 5  
Acute Toxicity: Inhalation, Category 5  
Skin Corrosion/Irritation, Category 2  
Specific Target Organ Toxicity (single exposure), Category 1  
Specific Target Organ Toxicity (single exposure), Category 2  
Specific Target Organ Toxicity (single exposure), Category 3  
Specific Target Organ Toxicity (repeated exposure), Category 1  
Aspiration Toxicity, Category 2



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

**GHS Hazard Phrases:** Highly flammable liquid and vapor.  
May be harmful if swallowed.  
May be harmful if swallowed and enters airways.  
Causes skin irritation.  
Causes serious eye irritation.  
May be harmful if inhaled.  
May cause respiratory irritation.  
Causes damage to kidneys.  
Causes damage to {central and peripheral nervous systems} through prolonged or repeated exposure.

**GHS Precautionary Phrases:** Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood. Keep container tightly closed.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Take precautionary measures against static discharge.  
Use only non-sparking tools.  
Wash hands thoroughly after handling.  
Do not breathe vapours.  
Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.  
In case of fire, use dry chemical, CO<sub>2</sub>, water spray or foam to extinguish.

**GHS Response Phrases:** IF ON SKIN: Wash with plenty of water/ Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. If skin irritation occurs, get medical advice/attention. IF exposed: Call a POISON CENTER or doctor. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Call a POISON CENTER or doctor. Do NOT induce vomiting.

**GHS Storage and Disposal Phrases:** Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local regulations. Store locked up.

**Emergency Overview:** Flash Point: -7 deg C.  
Danger! Extremely flammable liquid and vapor. Vapor may cause flash fire. Breathing vapors may cause drowsiness and dizziness. Causes eye irritation. Repeated exposure may cause skin dryness or cracking. Aspiration hazard if swallowed.

**Potential Health Effects (Acute and Chronic):** Chronic: Chronic inhalation may cause effects similar to those of acute inhalation. Prolonged or repeated skin contact may cause defatting and dermatitis. Animal studies have reported that fetal effects/abnormalities may occur when maternal toxicity is seen. Chronic overexposure to vapors may cause lung damage. Hazards not otherwise classified (HNOC) or not covered by GHS.

**Inhalation:** Causes respiratory tract irritation. Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. Neurobehavioural effects of exposure to MEK (200 ppm for 4 hrs) were studied with 137 volunteers. There were no statistically significant effects observed in biochemical, psychomotor, sensorimotor and psychological tests.

**Skin Contact:** May be absorbed through the skin in harmful amounts. Repeated or prolonged exposure may cause drying and cracking of the skin. Only one human case of skin sensitization was located. Negative results were obtained in an animal test; MEK did not produce skin sensitization in the mouse ear thickness test.

**Eye Contact:** Causes eye irritation. Vapors may cause eye irritation. Animal evidence suggests that MEK is a moderate to severe eye irritant.

**Ingestion:** May cause irritation of the digestive tract. Possible aspiration hazard. May cause central nervous system depression. Animal evidence suggests that MEK can be aspirated (inhaled) into the lungs during ingestion or vomiting.

### 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
78-93-3	Methyl ethyl ketone	50.0 -70.0 %
108-65-6	Propylene glycol methyl ether acetate	0.0 -10.0 %
108-88-3	Toluene	< 0.1 %
75-01-4	Vinyl chloride	< 0.1 %
100-42-5	Styrene	< 0.1 %

## 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>In Case of Inhalation:</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. If breathed in, move person into fresh air. Consult a physician.
<b>In Case of Skin Contact:</b>	In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse. Wash off with soap and plenty of water. Consult a physician.
<b>In Case of Eye Contact:</b>	In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid. Flush eyes with water as a precaution.
<b>In Case of Ingestion:</b>	Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward. Do NOT induce vomiting. Rinse mouth with water. Consult a physician.
<b>Signs and Symptoms Of Exposure:</b>	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
<b>Note to Physician:</b>	Treat symptomatically and supportively.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	> -5.70 C (21.7 F) Method Used: TAG Closed Cup
<b>Explosive Limits:</b>	LEL: No data. UEL: No data.
<b>Autoignition Pt:</b>	404.00 C (759.2 F)
<b>Suitable Extinguishing Media:</b>	In case of fire, use carbon dioxide, dry chemical powder or appropriate foam. Water may be ineffective because it will not cool material below its flash point. Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extremely flammable liquid and vapor. Vapor may cause flash fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. Wear self contained breathing apparatus for fire fighting if necessary. Further information.
<b>Flammable Properties and Hazards:</b>	Carbon oxides.
<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.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. Methods and materials for containment and cleaning up: 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).
<b>Steps To Be Taken In Case Material Is Released Or</b>	Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place

**Spilled:** in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation.

## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep container tightly closed. Keep away from heat, sparks and flame. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Avoid breathing vapor. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.

**Precautions To Be Taken in Storing:** Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 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.
108-65-6	Propylene glycol methyl ether acetate	No data.	No data.	No data.
108-88-3	Toluene	PEL: 200 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	TLV: 20 ppm	No data.
75-01-4	Vinyl chloride	PEL: 1 ppm (See 1910.1017) STEL: 5 ppm	TLV: 1 ppm	No data.
100-42-5	Styrene	PEL: 100 ppm STEL: 600 ppm/(5min/3hr) CEIL: 200 ppm	TLV: 20 ppm STEL: 40 ppm	No data.

**Personal Protective Equipment Symbols:**



**Respiratory Equipment (Specify Type):**

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. 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).

**Eye Protection:**

Wear chemical splash goggles. Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Protective Gloves:**

Wear appropriate protective gloves to prevent skin exposure. 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. Full contact:

Material: butyl-rubber. Minimum layer thickness: 0.3 mm Break through time: > 480 min.  
Material: Nitrile rubber. Minimum layer thickness: 0.4 mm Break through time: 480 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.

**Other Protective Clothing:** Wear appropriate protective clothing to prevent skin exposure. Impervious clothing. Flame retardant antistatic protective clothing. 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.):** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.

**Work/Hygienic/Maintenance Practices:** 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. Discharge into the environment must be avoided.

## 9. Physical and Chemical Properties

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

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

**pH:** No data.

**Melting Point:** -87.00 C (-124.6 F)

**Boiling Point:** 80.00 C (176.0 F) - 146.00 C (294.8 F)

**Flash Pt:** > -5.70 C (21.7 F) Method Used: TAG Closed Cup

**Evaporation Rate:** No data.

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

**Explosive Limits:** LEL: No data. UEL: No data.

**Vapor Pressure (vs. Air or mm Hg):** No data.

**Vapor Density (vs. Air = 1):** No data.

**Specific Gravity (Water = 1):** No data.

**Density:** 0.8177 G/CM3

**Solubility in Water:** No data.

**Saturated Vapor Concentration:** No data.

**Octanol/Water Partition Coefficient:** No data.

**Autoignition Pt:** 404.00 C (759.2 F)

**Decomposition Temperature:** No data.

**Viscosity:** No data.

**Explosive Properties:** No data available.

**Oxidizing Properties:** No data available.**Information with regard to primary physical hazard:**

## 10. Stability and Reactivity

**Stability:** Unstable [ ] Stable [ X ]**Conditions To Avoid - Ignition sources, Excess heat, Heat, flames and sparks.****Instability:****Incompatibility - Materials To Avoid:** Strong oxidizing agents, Strong acids, 2-propanol, Strong oxidizing agents.**Hazardous Decomposition or Byproducts:** Carbon monoxide, Carbon dioxide, Other decomposition products: No data available. In the event of fire: see section 5.**Possibility of Hazardous Reactions:** Will occur [ ] Will not occur [ X ]**Conditions To Avoid -****Hazardous Reactions:**

## 11. Toxicological Information

**Toxicological Information:** Germ cell mutagenicity: No data available.  
Reproductive toxicity. Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated exposure: Aspiration hazard:  
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. Provide adequate ventilation.

Result: No skin irritation . Serious eye damage/eye irritation:

**Sensitization:**

Maximisation Test. Species: Guinea pig.

**Carcinogenicity/Other Information:**

CAS# 78-93-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65. 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.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	Methyl ethyl ketone	n.a.	n.a.	n.a.	n.a.
108-65-6	Propylene glycol methyl ether acetate	n.a.	n.a.	n.a.	n.a.
108-88-3	Toluene	n.a.	3	Unknown	n.a.
75-01-4	Vinyl chloride	Known	1	Yes	Yes
100-42-5	Styrene	Possible	2B	Unknown	n.a.

## 12. Ecological Information

<b>General Ecological Information:</b>	Environmental: Substance evaporates in water with T1/2= 3D (rivers) to 12D (lakes). Substance is not expected to bioconcentrate in marine life. Physical: Substance photodegrades in air with T1/2 = 2.3 days. Oxidizes rapidly by photo-chemical reactions in air. Readily biodegradable meeting the 10 day window criterion. Not expected to bioaccumulate significantly.
<b>Results of PBT and vPvB assessment:</b>	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
<b>Persistence and Degradability:</b>	Biodegradability: Biotic/Aerobic - Exposure time 8, Result: 100 % - Readily biodegradable. Biochemical Oxygen Demand (BOD) 0.36 mg/l.
<b>Other adverse effects:</b>	Chemical Oxygen Demand (COD): An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

## 13. Disposal Considerations

<b>Waste Disposal Method:</b>	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: CAS# 78-93-3: waste number U159 (Ignitable waste, Toxic waste). 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. Contaminated packaging.
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## 14. Transport Information

### LAND TRANSPORT (US DOT):

<b>DOT Proper Shipping Name:</b>	Printing Ink		
<b>DOT Hazard Class:</b>	3	FLAMMABLE LIQUID	
<b>UN/NA Number:</b>	UN1210	<b>Packing Group:</b>	II



### LAND TRANSPORT (Canadian TDG):

<b>TDG Shipping Name:</b>	Printing Ink		
<b>UN Number:</b>	UN1210	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	3 - FLAMMABLE LIQUID	<b>TDG Classification:</b>	

### MARINE TRANSPORT (IMDG/IMO):

<b>IMDG/IMO Shipping Name:</b>	Printing Ink		
<b>UN Number:</b>	UN1210	<b>Packing Group:</b>	II
<b>Hazard Class:</b>	3 - FLAMMABLE LIQUID	<b>IMDG MFAG Number:</b>	



**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
108-65-6	Propylene glycol methyl ether acetate	No	No	No
108-88-3	Toluene	No	Yes NA	Yes
75-01-4	Vinyl chloride	No	Yes NA	Yes
100-42-5	Styrene	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 checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Germ cell mutagenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Pyrophoric gas	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Carcinogenicity
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Self-heating	<input type="checkbox"/> Yes <input checked="" 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)		

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	Methyl ethyl ketone	Yes: Part 5	No	Yes
108-65-6	Propylene glycol methyl ether acetate	Yes	No	Yes
108-88-3	Toluene	Yes: Part 5	No	Yes
75-01-4	Vinyl chloride	Yes: Part 1A	Yes - 9.	Yes
100-42-5	Styrene	Yes: Part 5		Yes

**California Proposition 65**



**WARNING**

This product can expose you to chemicals including Vinyl chloride and Styrene, which are 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 Toluene, 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).

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
78-93-3	Methyl ethyl ketone	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: NC TAP
108-65-6	Propylene glycol methyl ether acetate	TSCA: Inventory, 8A PAIR, 8D TERM
108-88-3	Toluene	TSCA: Inventory, 8A CAIR, 8C CA PROP.65: Yes: RDTox(F) CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: NC TAP
75-01-4	Vinyl chloride	TSCA: Inventory CA PROP.65: Yes: Canc. CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: NC TAP

100-42-5 Styrene

TSCA: Inventory, 8A CAIR, 8C  
CA PROP.65: Yes: Canc.  
CA TAC, Title 8: TAC: Cat. IIa, Title 8  
NC TAP: Yes: NC TAP

**CAS # Hazardous Components (Chemical Name)**

78-93-3 Methyl ethyl ketone

**International Regulatory Lists**

Mexico INSQ: 1193  
Japan ENCS: 2-542  
Germany WHCS: 150: WGK 1  
Switzerland Giftliste 1: G-2429  
REACH: 01-2119457290-43: Full, (P)

108-65-6 Propylene glycol methyl ether acetate

Japan ENCS: 5-1508  
Japan ISHL: 5-1518  
Germany WHCS: 5033: WGK 1  
Switzerland Giftliste 1: G-54973  
REACH: 01-2119475791-29: Full, (P)

108-88-3 Toluene

Mexico INSQ: 1294  
New Zealand IOC: HSR001227  
Japan ENCS: 3-60  
Japan ISHL: 4-(7)-2694  
Germany WHCS: 194: WGK 2  
Switzerland Giftliste 1: G-2063  
REACH: 01-2119471310-51: Full, (P)

75-01-4 Vinyl chloride

Japan ENCS: 2-102  
Germany WHCS: 462: WGK 2  
Switzerland Giftliste 1: G-2100  
REACH: 01-2119458772-30: Full, (P), C1, M2

100-42-5 Styrene

Japan ENCS: 9-2603  
Germany WHCS: 187: WGK 2  
Switzerland Giftliste 1: G-2896  
REACH: 01-2119457861-32: Full, (P)

**16. Other Information**

**Revision Date:** 01/03/2023

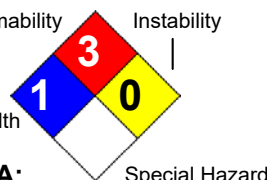
**Previous revision:** 02/08/2019

**Hazard Rating System:**

HEALTH	1
FLAMMABILITY	3
PHYSICAL	0
PPE	B

**HMIS:**

**NFPA:**



**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:**