

## SAFETY DATA SHEET

### JP-K77

#### SECTION 1: Identification

##### 1.1. Product identifier

TRADE NAME JP-K77

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE Industrial purposes

USES ADVISED AGAINST None known.

##### 1.3. Details of the supplier of the safety data sheet

COMPANY AND ADDRESS **Hitachi Industrial Equipment & Solutions America, LLC**  
75 NW Point Blvd Suite D  
60007 Elk Grove Village, IL  
United States  
+1 (800) 627-5464  
<https://mc.hitachi-iesa.com>

SDS DATE 7/17/2025  
SDS VERSION DATE 1.0  
OF PREVIOUS VERSION 7/15/2025 (1.0)

##### 1.4. Emergency telephone number

+1 (800) 424-9300

#### SECTION 2: Hazard(s) identification

##### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### 2.1. Classification of the substance or mixture

Flam. Liq. 2; H225, Highly flammable liquid and vapour.  
Eye Irrit. 2; H319, Causes serious eye irritation.  
STOT SE 3; H336, May cause drowsiness or dizziness.  
Muta. 2; H341, Suspected of causing genetic defects.

##### 2.2. Label elements

HAZARD PICTOGRAM(S)



SIGNAL WORD Danger

HAZARD STATEMENT(S) Highly flammable liquid and vapour. (H225)  
Causes serious eye irritation. (H319)  
May cause drowsiness or dizziness. (H336)  
Suspected of causing genetic defects. (H341)

PRECAUTIONARY STATEMENT(S)

General If medical advice is needed, have product container or label at hand. (P101)  
Keep out of reach of children. (P102)

Prevention Obtain special instructions before use. (P201)

	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)</p> <p>Keep container tightly closed. (P233)</p> <p>Avoid breathing mist/vapour. (P261)</p> <p>Wash hands thoroughly after handling. (P264)</p> <p>Use only outdoors or in a well-ventilated area. (P271)</p> <p>Wear eye protection/protective gloves. (P280)</p>
Response	<p>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)</p> <p>IF exposed or concerned: Get medical advice/attention. (P308+P313)</p> <p>Call a POISON CENTER/doctor if you feel unwell. (P312)</p> <p>If eye irritation persists: Get medical advice/attention. (P337+P313)</p> <p>In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish. (P370+P378)</p>
Storage	<p>Store in a well-ventilated place. Keep container tightly closed. (P403+P233)</p> <p>Store in a well-ventilated place. Keep cool. (P403+P235)</p> <p>Store locked up. (P405)</p>
Disposal	<p>Dispose of contents/container in accordance with local regulation. (P501)</p>
ADDITIONAL LABELLING	<p>Not applicable.</p>

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

PRODUCT/SUBSTANCE	IDENTIFIERS	% W/W	CLASSIFICATION	NOTE
acetone;propan-2-one;propanone	CAS No.: 67-64-1	60-80%	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 Repeated exposure may cause skin dryness or cracking	
ethanol;ethyl alcohol	CAS No.: 64-17-5	5-10%	Flam. Liq. 2, H225	
2,3-dihydro-2,2-dimethyl-6-[[1-naphthyl-4-(phenylazo)]azo]-1H-perimidine	CAS No.: 4197-25-5	3-5%	Muta. 2, H341	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

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## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

**GENERAL INFORMATION** If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).  
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

INHALATION	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
SKIN CONTACT	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
EYE CONTACT	If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.
INGESTION	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
BURNS	Rinse with water until pain stops then continue to rinse for 30 minutes.

#### 4.2. Most important symptoms and effects, both acute and delayed

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:

Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Highly flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

## 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

## 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

## 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Avoid direct contact with the product.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. ▼ Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

RECOMMENDED STORAGE Keep only in original packaging.

MATERIAL

▼ LIQUID CLASS Flammable liquid / Class IB (NFPA 30)

STORAGE CONDITIONS Dry, cool and well ventilated

INCOMPATIBLE MATERIALS Reducing agents  
Strong oxidizing agents

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

acetone;propan-2-one;propanone

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 500

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 2400

Long term exposure limit (OSHA Table Z-1) (ppm): 1000

Long term exposure limit (ACGIH TLV) (ppm): 250

ethanol;ethyl alcohol

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 1000

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 1900

Long term exposure limit (OSHA Table Z-1) (ppm): 1000

isopropyl acetate;propyl acetate

Short term exposure limit (STEL) (ACGIH TLV) (ppm): 250

Short term exposure limit (STEL) (NIOSH REL) (ppm): 250

Long term exposure limit (OSHA Table Z-1) (mg/m<sup>3</sup>): 840

Long term exposure limit (OSHA Table Z-1) (ppm): 200

Long term exposure limit (ACGIH TLV) (ppm): 200

Part 1910 - Occupational Safety and Health Standards (29 CFR 1910.1000 TABLE Z-1 - Limits for Air Contaminants)

## 8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

GENERAL RECOMMENDATIONS	Smoking, drinking and consumption of food is not allowed in the work area.
EXPOSURE SCENARIOS	There are no exposure scenarios implemented for this product.
EXPOSURE LIMITS	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
APPROPRIATE TECHNICAL MEASURES	Do not recirculate outlet air that contain the substances. The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.
HYGIENE MEASURES	Apply standard precautions during use of the product. Avoid inhalation of vapours. In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
MEASURES TO AVOID ENVIRONMENTAL EXPOSURE	Keep damming materials near the workplace. If possible, collect spillage during work.

## Individual protection measures, such as personal protective equipment

GENERALLY	Use only protective equipment with a recognized certification mark, e.g. the UL mark.
RESPIRATORY EQUIPMENT	No specific requirements.
SKIN PROTECTION	No specific requirements.

### HAND PROTECTION

MATERIAL	GLOVE THICKNESS (MM)	BREAKTHROUGH TIME (MIN.)	STANDARDS	
Butyl	0,3	> 240	EN374-2, EN16523-1, EN388	

### EYE PROTECTION

TYPE	STANDARDS	
Safety glasses	EN166	

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

PHYSICAL STATE	Liquid
COLOR	Black
ODOR	Solvent
ODOR THRESHOLD (PPM)	No data available.
PH	No data available.
▼ DENSITY (G/CM <sup>3</sup> )	0.838
KINEMATIC VISCOSITY	No data available.
PARTICLE CHARACTERISTICS	Does not apply to liquids.

### Phase changes

▼ MELTING	-
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POINT/FREEZING POINT (°F)	
MELTING POINT/FREEZING POINT (°C)	-95.00
SOFTENING POINT/RANGE (°F)	Does not apply to liquids.
▼ BOILING POINT (°F)	-
▼ BOILING POINT (°C)	56
VAPOR PRESSURE	No data available.
RELATIVE VAPOR DENSITY	No data available.
DECOMPOSITION TEMPERATURE (°F)	No data available.

### Data on fire and explosion hazards

▼ FLASH POINT (°F)	-
FLASH POINT (°C)	-20
FLAMMABILITY (°F)	The material is ignitable.
AUTO-IGNITION TEMPERATURE (°F)	No data available.
EXPLOSION LIMITS (% V/V)	No data available.

### Solubility

SOLUBILITY IN WATER	No data available.
N-OCTANOL/WATER COEFFICIENT (LOGKOW)	No data available.
SOLUBILITY IN FAT (G/L)	No data available.

### 9.2. Other information

OTHER PHYSICAL AND CHEMICAL PARAMETERS	No data available.
OXIDIZING PROPERTIES	No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions, including those associated with foreseeable emergencies

None known.

### 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.  
Extremes of temperature  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
Moisture

### 10.5. Incompatible materials

Reducing agents  
Strong oxidizing agents

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

## **Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

## **Serious eye damage/irritation**

Causes serious eye irritation.

## **Respiratory sensitisation**

Based on available data, the classification criteria are not met.

## **Skin sensitisation**

Based on available data, the classification criteria are not met.

## **Germ cell mutagenicity**

Suspected of causing genetic defects.

## **Carcinogenicity**

Based on available data, the classification criteria are not met.

## **Reproductive toxicity**

Based on available data, the classification criteria are not met.

## **STOT-single exposure**

May cause drowsiness or dizziness.

## **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

## **Aspiration hazard**

Based on available data, the classification criteria are not met.

## **Long term effects**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

## **Other information**

None known.

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Based on available data, the classification criteria are not met.

### **12.2. Persistence and degradability**

Based on available data, the classification criteria are not met.

### **12.3. Bioaccumulative potential**

Based on available data, the classification criteria are not met.

### **12.4. Mobility in soil**

No data available.

### **12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### **12.6. Other adverse effects**

None known.

## **SECTION 13: Disposal considerations**

### **RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)**

acetone;propan-2-one;propanone is listed with EPA Hazardous Waste Number: U002

### **Specific labelling**

### **Contaminated packing**

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN PROPER SHIPPING NAME	14.3 HAZARD CLASS(ES)	14.4 PG*	14.5 ENV**	OTHER INFORMAT ION:
DOT	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional information .
IMDG	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	Limited quantities: 5 L EmS: F-E S-D See below for additional information .
IATA	UN1210	PRINTING INK	Transport hazard class: 3 Label: 3 Classification code: F1 	II	No	See below for additional information .

\* Packing group

\*\* Environmental hazards

### Additional information

This product is within scope of the regulations of transport of dangerous goods.

DOT / See § 172.101 Hazardous Materials Table for any information on special provisions, requirements, or warnings in connection with transport. See § 172.602, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to IMO instruments

No data available.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

## 15.2. U.S. Federal regulations

TSCA (THE NON-CONFIDENTIAL PORTION)	acetone;propan-2-one;propanone is listed ethanol;ethyl alcohol is listed 2,3-dihydro-2,2-dimethyl-6-[[1-naphthyl-4-(phenylazo)]azo]-1H-perimidine is listed Lithium nitrate is listed isopropyl acetate;propyl acetate is listed
CLEAN AIR ACT	None of the components are listed
EPCRA SECTION 302	None of the components are listed
EPCRA SECTION 304	None of the components are listed
EPCRA SECTION 313	None of the components are listed
CERCLA	acetone;propan-2-one;propanone is regulated with a Reportable Quantity (RQ) of: 5000 pounds
HAZARDOUS CHEMICAL INVENTORY REPORTING	This product is subject to Tier II reporting.

## State regulations

CALIFORNIA / PROP. 65	None of the components are listed
MASSACHUSETTS / RIGHT TO KNOW ACT	acetone;propan-2-one;propanone is listed ethanol;ethyl alcohol is listed isopropyl acetate;propyl acetate is listed
NEW JERSEY / RIGHT TO KNOW ACT	acetone;propan-2-one;propanone / Substance number: 0006 acetone;propan-2-one;propanone is on the Special Health Hazard Substance List  — ethanol;ethyl alcohol / Substance number: 0844 ethanol;ethyl alcohol is on the Special Health Hazard Substance List  — Lithium nitrate / Substance number: 1130  — isopropyl acetate;propyl acetate / Substance number: 1419 isopropyl acetate;propyl acetate is on the Special Health Hazard Substance List
NEW YORK / RIGHT TO KNOW ACT	— acetone;propan-2-one;propanone is listed acetone;propan-2-one;propanone is regulated with a Reportable Quantity (RQ) of: 5000 pounds acetone;propan-2-one;propanone is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds  — ethanol;ethyl alcohol is listed ethanol;ethyl alcohol is regulated with a Treshold Reporting Quantity (TRQ) of: 0 pounds  — Lithium nitrate is listed Lithium nitrate is regulated with a Treshold Reporting Quantity (TRQ) of: 1 pounds  — isopropyl acetate;propyl acetate is listed isopropyl acetate;propyl acetate is regulated with a Treshold Reporting Quantity (TRQ) of: 10 pounds
PENNSYLVANIA / RIGHT TO KNOW ACT	— acetone;propan-2-one;propanone is listed acetone;propan-2-one;propanone is hazardous to the environment (E)  — ethanol;ethyl alcohol is listed  — isopropyl acetate;propyl acetate is listed

## 15.4. Restrictions for application

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

## 15.5. Demands for specific education

No specific requirements.

## 15.6. Additional information

Not applicable.

## 15.7. Chemical safety assessment

No

## 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: Other information

### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H319, Causes serious eye irritation.

H336, May cause drowsiness or dizziness.

H341, Suspected of causing genetic defects.

Repeated exposure may cause skin dryness or cracking, Repeated exposure may cause skin dryness or cracking.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

## **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

The classification of the mixture in regard to physical hazards has been based on experimental data.

## **The safety data sheet is validated by**

Else Super

## **Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en