

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830; US OSHA HCS 2015; and Canadian WHMIS 2015.

Section 1. Identification of the Substance/Mixture and of the Company/Undertaking

- 1.1 Product Code:** JP-K67 U
Product Name: JP-K67 u
X Code: X(22,53)0498
- 1.2 Relevant identified uses of the substance or mixture and uses advised against:**
- 1.3 Details of the Supplier of the Safety Data Sheet:**
Company Name: Hitachi Industrial Equipment & Solutions America, LLC
2730 Greenleaf Avenue **Phone Number:**
Elk Grove Village, IL 60007 (866)583-0048
Information: Christian Krzykwa (980)500-7144
- 1.4 Emergency telephone number:**
Emergency Contact: Chemtrec (800)424-9300

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture:**
Flammable Liquids, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Specific Target Organ Toxicity (single exposure), Category 1

2.2 Label Elements:**GHS Signal Word:** **Danger****Hazard-determining components of labelling:**

2- Butonone

Methanol

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

H319 - Causes serious eye irritation.

H370 - Causes damage to organs

H301 - Toxic if swallowed.

H311 - Toxic in contact with skin.

H331 - Toxic if inhaled.

EUH066 - Repeated exposure may cause skin dryness or cracking.

GHS Precautionary Phrases:

P233 - Keep container tightly closed.

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ventilating/lighting/.../ equipment.

P243 - Take precautionary measures against static discharge.

P242 - Use only non-sparking tools.

P264 - Wash hands thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product.

P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P271 - Use only outdoors or in a well-ventilated area.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

GHS Response Phrases:

P370+378 - In case of fire, use ... to extinguish.

P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313 - If eye irritation persists, get medical advice/attention.

P307+311 - IF exposed: Call a POISON CENTER or doctor/physician.

P322 - Specific measures see ... on this label.

P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330 - Rinse mouth.

P321 - Specific treatment see ... on this label.

P361 - Take off immediately all contaminated clothing.

P302+352 - IF ON SKIN: Wash with plenty of soap and water.

P312 - Call a POISON CENTER/doctor/... if you feel unwell.

P363 - Wash contaminated clothing before reuse.

P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P311 - Call a POISON CENTER/doctor/...

GHS Storage and Disposal Phrases:

P403+235 - Store in cool/well-ventilated place.

P501 - Dispose of contents/container to ...

P405 - Store locked up.

P403+233 - Store container tightly closed in well-ventilated place.

UFI:

2.3 Adverse Human Health Chronic: Chronic inhalation may cause effects similar to those of acute inhalation.

Effects and Symptoms: 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.

2.3.1 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.

2.3.2 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.

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

2.3.4 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.

Section 3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
78-93-3	2- Butonone 01-2119457290-43	40.0 -70.0 %	201-159-0 606-002-00-3	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066
67-56-1	Methanol 01-2119392409-28	5.0 -20.0 %	200-659-6 603-001-00-X	Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 STOT (SE) 1: H370

Section 4. First Aid Measures

4.1 Description of First Aid Measures:

- In Case of Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Remove victim to fresh air. If not breathing give artificial respiration.
- In Case of Skin Contact:** 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. Flush with copious amounts of water for at least 15 minutes. Call a physician.
- In Case of Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid. In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
- In Case of Ingestion:** 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. Wash out mouth with water provided person is conscious. Call a physician immediately.

4.2 Important Symptoms and Effects, Both Acute and Delayed:

Gastrointestinal disturbances. May cause convulsions.

Acute and Delayed: CONDITIONS AGGRAVATED BY EXPOSURE:
The toxicological properties have not been thoroughly investigated.

Note for the Doctor: Treat symptomatically and supportively.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** 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. Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
- 5.2 Flammable Properties and Hazards:** No data available.
- Flash Pt:** No data available.
- Explosive Limits:** -7.00 C Method Used: Estimate
LEL: No data. UEL: No data.
- Autoignition Pt:** 404.00 C
- 5.3 Fire Fighting Instructions:** 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. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6. Accidental Release Measures

- 6.1 Protective Precautions,** No data available.
Protective Equipment and Emergency Procedures:
- 6.2 Environmental Precautions:** No data available.
- 6.3 Methods and Material For Containment and Cleaning Up:** 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 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. PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.
Methods for cleaning up.
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7. Handling and Storage

- 7.1 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. User Exposure: Avoid prolonged or repeated exposure. Do not breathe dust.
- 7.2 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 closed. Keep away from heat and open flame.
Store at 35-90deg.F.

Section 8. Exposure Controls/Personal Protection

8.1 Exposure Parameters:

CAS #	Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations
78-93-3	2- Butonone	ACGIH TLV	TLV: 200 ppm STEL: 300 ppm	
		Europe	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)	
		France VL	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm)	
		OSHA PELs	PEL: 200 ppm	
		Britain EH40	TWA: 600 mg/m3 (200 ppm) STEL: 899 mg/m3 (300 ppm)	Skin Absorption
67-56-1	Methanol	ACGIH TLV	TLV: 200 ppm	

67-56-1 Methanol (continued)	Europe	STEL: 250 ppm TWA: 260 mg/m ³ (200 ppm)	Skin Absorption
	France VL	TWA: 260 mg/m ³ (200 ppm) STEL: 1300 mg/m ³ (1000 ppm)	
	OSHA PELs	PEL: 200 ppm	
	Britain EH40	TWA: 266 mg/m ³ (200 ppm) STEL: 333 mg/m ³ (250 ppm)	Skin Absorption

Derived No-Effect Levels / Predicted No Effect Concentrations:

67-56-1 Methanol

DNEL Worker	Value		Remarks
Long-term - Eyes, local effects			equilibrium partitioning method.
Long-term - Inhalation, local effects	130.000	mg/m ³	no potential for bioaccumulation.
Long-term - Inhalation, systemic effects	130.000	mg/m ³	no hazard identified.
Long-term - Dermal, local effects			equilibrium partitioning method.
Long-term - Dermal, systemic effects	20.000	mg/kg bw/day	assessment factor.
Acute - Inhalation, local effects	130.000	mg/m ³	equilibrium partitioning method.
Acute - Inhalation, systemic effects	130.000	mg/m ³	equilibrium partitioning method.
Acute - Dermal, local effects			assessment factor.
Acute - Dermal, systemic effects	20.000	mg/kg bw/day	assessment factor.

DNEL Consumer	Value		Remarks
Long-term - Eyes, local effects			equilibrium partitioning method.
Long-term - Inhalation, local effects	130.000	mg/m ³	assessment factor.
Long-term - Inhalation, systemic effects	130.000	mg/m ³	assessment factor.
Long-term - Oral, systemic effects	20.000	mg/kg bw/day	assessment factor.
Long-term - Dermal, local effects			equilibrium partitioning method.
Long-term - Dermal, systemic effects	20.000	mg/kg bw/day	assessment factor.
Acute - Inhalation, local effects	130.000	mg/m ³	no potential for bioaccumulation.
Acute - Inhalation, systemic effects	130.000	mg/m ³	no hazard identified.
Acute - Oral, systemic effects	20.000	mg/kg bw/day	equilibrium partitioning method.
Acute - Dermal, local effects			equilibrium partitioning method.
Acute - Dermal, systemic effects	20.000	mg/kg bw/day	assessment factor.

78-93-3 2- Butonone

DNEL Worker	Value		Remarks
Long-term - Eyes, local effects			assessment factor.
Long-term - Inhalation, local effects			equilibrium partitioning method.
Long-term - Inhalation, systemic effects			sensitivity distribution.
Long-term - Dermal, local effects			no hazard identified.
Long-term - Dermal, systemic effects			no hazard identified.
Acute - Inhalation, local effects			sensitivity distribution.
Acute - Inhalation, systemic effects	600.000	mg/m ³	sensitivity distribution.
Acute - Dermal, local effects			equilibrium partitioning method.
Acute - Dermal, systemic effects	1161.000	mg/kg bw/day	equilibrium partitioning method.

DNEL Consumer	Value		Remarks
Long-term - Eyes, local effects			equilibrium partitioning method.
Long-term - Inhalation, local effects			equilibrium partitioning method.
Long-term - Inhalation, systemic effects			assessment factor.

Long-term - Oral, systemic effects			assessment factor.
Long-term - Dermal, local effects			assessment factor.
Long-term - Dermal, systemic effects			equilibrium partitioning method.
Acute - Inhalation, local effects			equilibrium partitioning method.
Acute - Inhalation, systemic effects	212.000	mg/m ³	assessment factor.
Acute - Oral, systemic effects	62.000	mg/kg bw/day	assessment factor.
Acute - Dermal, local effects			no hazard identified.
Acute - Dermal, systemic effects	824.000	mg/kg bw/day	no hazard identified.

67-56-1 Methanol

PNEC	Value		Remarks
aquatic, sediment, freshwater	77.000	mg/kg sediment	equilibrium partitioning method.
aquatic, sediment, marine water	7.700	mg/kg sediment	equilibrium partitioning method.
aquatic, freshwater	20.800	mg/L	assessment factor.
air			no hazard identified.
aquatic, marine water	2.080	mg/L	assessment factor.
predators, secondary poisoning			no potential for bioaccumulation.
soil	100.000	mg/kg soil dw	assessment factor.
aquatic, STP	100.000	mg/L	assessment factor.

78-93-3 2- Butonone

PNEC	Value		Remarks
aquatic, sediment, freshwater	284.740	mg/kg sediment	equilibrium partitioning method.
aquatic, sediment, marine water	284.700	mg/kg sediment	equilibrium partitioning method.
aquatic, freshwater	55.800	mg/L	sensitivity distribution.
air			no hazard identified.
aquatic, marine water	55.800	mg/L	sensitivity distribution.
predators, secondary poisoning	1000.000	mg/kg food	no hazard identified.
soil	22.500	mg/kg soil dw	equilibrium partitioning method.
aquatic, STP	709.000	mg/L	sensitivity distribution.

8.2 Exposure Controls:

8.2.1 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. Safety shower and eye bath. Mechanical exhaust required.

8.2.2 Personal protection equipment:

Eye Protection: Wear chemical splash goggles.
Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

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. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). (EU). Use supplied-air or SCBA respirators. Europe permits the use of type AXBEK full-face cartridge respirators (EN 14387).
Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.

Work/Hygienic/Maintenance Practices: Wash thoroughly after handling.

EXPOSURE LIMITS.
Country Source Type Value.
Poland NDS 100 MG/M3
Poland NDSCh 300 MG/M3
Poland NDSP -
No data available.

Exposure Scenarios: No data available.

Section 9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Black. solvent odor.
pH: No data.
Melting Point: -87.00 C
Boiling Point: 80.00 C
Flash Pt: -7.00 C Method Used: Estimate
Evaporation Rate: 4.6 (BuAC=1)
Flammability (solid, gas): No data available.
Explosive Limits: LEL: No data. UEL: No data.
Vapor Pressure (vs. Air or mm Hg): 85 MM_HG at 20.0 C
Vapor Density (vs. Air = 1): > Air
Specific Gravity (Water = 1): ~ 0.8774
Density: ~ 0.8784 G/ML (~ 7.33 - LB/GA)
Solubility in Water: Miscible
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: 404.00 C
Decomposition Temperature: No data.
Viscosity: No data.

9.2 Other Information

9.2.1 Information with regard to physical hazard classes

Information with regard to
primary physical hazard:

9.2.2 Other safety characteristics

Percent Volatile: > 70.0 % by volume.

Section 10. Stability and Reactivity

10.1 Reactivity: No data available.

10.2 Stability: Unstable [] Stable [X]

10.3 Conditions To Avoid - No data available.

Hazardous Reactions:

Possibility of Will occur [] Will not occur [X]

Hazardous Reactions:

10.4 Conditions To Avoid - ignition sources, Excess heat.

Instability:

10.5 Incompatibility - Strong oxidizing agents, Strong acids, 2-propanol, acids, Acid chlorides, Acid
Materials To Avoid: anhydrides, Alkali metals, Oxidizing agents, Reducing agents.

10.6 Hazardous Carbon monoxide, Carbon dioxide, Phosphorous oxides.

Decomposition or

Byproducts:

Section 11. Toxicological Information

11.1 Information on

Toxicological Effects:

ROUTE OF EXPOSURE:

Skin Contact: May cause skin irritation.

Skin Absorption: Harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract.

Harmful if inhaled.

Ingestion: Harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Eyes. Kidneys. Liver. Heart.

CAS# 78-93-3:

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

Result:

Lungs, Thorax, or Respiration: Sputum.

Biochemical: Metabolism (Intermediary): Other proteins.

Biochemical:Metabolism (intermediary): Effect on inflammation or mediation of inflammation.

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

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

Result:

Lungs, Thorax, or Respiration:Other changes.

Biochemical:Metabolism (intermediary): Effect on inflammation or mediation of inflammation.

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

Acute toxicity, LC50, Inhalation, Mouse, 32.00 MG/M3.

Result:

Brain and Coverings: Other degenerative changes.

Biochemical:Metabolism (intermediary): Effect on inflammation or mediation of inflammation.

Acute toxicity, LD50, Intraperitoneal, Species: Guinea pig, 2.000 GM/KG.

Result:

Immunological Including Allergic: Increase in humoral immune response.

CAS# 67-56-1:

Acute toxicity, LD50, Oral, Rat, 5628. MG/KG.

Result:

Behavioral: Food intake (animal).

Nutritional and Gross Metabolic:Weight loss or decreased weight gain.

- Gigena Truda i Professional'nye Zabolevaniya.(Labor Hygiene and Occupational Disease), V/O Mezhdunarodnaya Kniga, Moscow 113095 Russia, Vol/p/yr: 19(11),27, 1975

Acute toxicity, LD50, Intraperitoneal, Rat, 7529. MG/KG.

Result:

Lungs, Thorax, or Respiration:Acute pulmonary edema.

Blood:Changes in leukocyte (WBC) count.

Related to Chronic Data - death.

- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985

Acute toxicity, LD50, Intravenous, Rat, 2131. MG/KG.

Result:

Kidney, Ureter, Bladder:Other changes in urine composition.

- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985

Acute toxicity, LD50, Oral, Mouse, 7300. MG/KG.

Result:

Behavioral: Somnolence (general depressed activity).

Lungs, Thorax, or Respiration:Dyspnea.

- Toxicology., Elsevier Scientific Pub. Ireland, Ltd., POB 85, Limerick Ireland, Vol/p/yr: 25,271, 1982

Acute toxicity, LD50, Intraperitoneal, Mouse, 10765. MG/KG.

Result:

Effects on Embryo or Fetus: Fetal death.

Specific Developmental Abnormalities: Other developmental abnormalities.

- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985

Acute toxicity, LD50, Subcutaneous, Mouse, 9800. MG/KG.

Result:

Effects on Newborn: Growth statistics (e.g., reduced weight gain).

Effects on Newborn: Delayed effects.

- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 18,185, 1971

Acute toxicity, LD50, Intravenous, Mouse, 4710. MG/KG.

Result:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985

Acute toxicity, LD50, Oral, Species: Monkey., 7.000 GM/KG.

Result:

Behavioral: Muscle weakness.

Behavioral: Ataxia.

Behavioral: Coma.

- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 3,202, 1961

Acute toxicity, LD50, Oral, Species: Rabbit, 14200. MG/KG.

Result:

Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

- FAO Nutrition Meetings Report Series., Vol/p/yr: 48A,105, 1970

Acute toxicity, LD50, Skin, Species: Rabbit, 15800. MG/KG.

Result:

Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Specific Developmental Abnormalities: Musculoskeletal system.

- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,74, 1974

Acute toxicity, LD50, Intraperitoneal, Species: Rabbit, 1826. MG/KG.

Result:

Specific Developmental Abnormalities: Other developmental abnormalities.

- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985

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

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	2- Butonone	n.a.	n.a.	n.a.	n.a.
67-56-1	Methanol	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** 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.
- 12.2 Persistence and Degradability:** No data available.
- 12.3 Bioaccumulative Potential:** No data available.
- 12.4 Mobility in Soil:** No data available.
- 12.5 Results of PBT and vPvB assessment:** No data available.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

- 13.1 Waste Disposal Method:** 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). APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION.
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Section 14. Transport Information

GHS Classification: Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor
Serious Eye Damage/Eye Irritation, Category 2A - Warning! Causes serious eye irritation
Specific Target Organ Toxicity (single exposure), Category 1 - Danger! Causes damage to organs {<target organs>}

14.1 LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

DOT Hazard Class: 3 FLAMMABLE LIQUID

UN/NA Number: UN1210 **Packing Group:** II



14.1 LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

UN Number: 1210 **Packing Group:** II

Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:**

14.1 LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name:

UN Number: 1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Printing ink, [flammable or] Printing ink related material [(including printing ink thinning or reducing compound), flammable]

UN Number: 1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

Section 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	2- Butonone	No	Yes NA	No
67-56-1	Methanol	No	Yes NA	Yes

CAS #	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL
78-93-3	2- Butonone	Yes: Part 5	No	Yes
67-56-1	Methanol	Yes: Part 5		Yes

California Proposition 65



WARNING

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.

CAS #	Hazardous Components (Chemical Name)
78-93-3	2- Butonone
67-56-1	Methanol

Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No
TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.

CAS #	Hazardous Components (Chemical Name)
78-93-3	2- Butonone

International Regulatory Lists

Mexico INSQ: Yes - 1193; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-24094; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 150: WGK 1; Switzerland Giftliste 1: Yes - G-2429; Switzerland INNS: No; REACH: Yes - 01-2119457290-43: Full, (P)
Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-322; Japan ISHL: No; Korea ECL: Yes - KE-23193; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 145: WGK 1; Switzerland Giftliste 1: Yes - G-2063; Switzerland INNS: No; REACH: Yes - 01-2119433307-44: Full, (P)

67-56-1	Methanol
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Section 16. Other Information

Revision Date: 07/21/2021

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

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