

according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2020/878; US OSHA HCS 2015; and Canadian WHMIS 2015.

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

- 1.1 Product Code:** N100341
Product Name: JP-R76
X Code: X(22,53)0341
- 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 2
Skin Corrosion/Irritation, Category 2

- 2.2 Label Elements:**



GHS Signal Word: **Danger**

Hazard-determining components of labelling:

2- Butonone
Isopropyl alcohol

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.

GHS Precautionary Phrases:

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.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:

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

P321 - Specific treatment see ... on this label.
 P332+313 - If skin irritation occurs, get medical advice/attention.
 P337+313 - If eye irritation persists, get medical advice/attention.
 P362+364 - Take off contaminated clothing and wash it before reuse.
 P370+378 - In case of fire, use ... to extinguish.

GHS Storage and Disposal Phrases:

P403+235 - Store in cool/well-ventilated place.
 P501 - Dispose of contents/container to ...

UFI:

2.3 Adverse Human Health Hazards not otherwise classified (HNOC) or not covered by GHS. Hazards not otherwise **Effects and Symptoms:** classified (HNOC) or not covered by GHS -none. Chronic: None.

2.3.1 Inhalation: No hazard expected in normal industrial use.

2.3.2 Skin Contact: Non-irritating to the skin.

2.3.3 Eye Contact: Non-irritating to the eyes.

2.3.4 Ingestion: No hazard expected in normal industrial use.

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	48.59 -75.4 %	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	13.5 -30.0 %	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
9004-70-0	Nitrocellulose na	1.625 -5.625 %	NA NA	Explosive 1.1: H201 STOT (SE) 3: H335 H336
64-17-5	Ethyl alcohol 01-2119457610-43	0.625 -2.625 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
67-63-0	Isopropyl alcohol 01-2119457558-25	0.625 -2.625 %	200-661-7 603-117-00-0	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336
7732-18-5	Water na	0.625 -2.625 %	231-791-2 NA	No GHS classifications apply.
8047-99-2	Toluene ethylsulfonamide 01-2120791115-55	1.0 -5.0 %	232-465-2 NA	No GHS classifications apply.
556-67-2	Cyclotetrasiloxane, Octamethyl- 01-2119529238-36	0.01 -0.1 %	209-136-7 014-018-00-1	Toxic Repro. 2: H361 Aquatic (C) 1: H410 H351f
108-83-8	Diisobutyl ketone 01-2119474441-41	0.06 -1.0 %	203-620-1 606-005-00-X	Flam. Liq. 3: H226 STOT (SE) 3: H335 H336

Section 4. First Aid Measures

- 4.1 Description of First Aid Measures:** 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. Remove victim to fresh air. If breathing is difficult, give oxygen. No specific treatment is necessary since this material is not likely to be hazardous by inhalation.
- In Case of Skin Contact:** Wash off with soap and plenty of water. Consult a physician. Take victim immediately to hospital. Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes.
Call a physician. No specific treatment is necessary, since this material is not likely to be hazardous.
- 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 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. No specific treatment is necessary, since this material is not likely to be hazardous.
- In Case of Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Wash out mouth with water provided person is conscious. Call a physician. No specific treatment is necessary, since this material is expected to be non-hazardous.
- 4.2 Important Symptoms and Effects, Both Acute and Delayed:** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Prolonged exposure can cause: Nausea. Headache. Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Narcotic effect.
- Note for the Doctor:** Treat symptomatically and supportively.
- 4.3 Indication of any immediate medical attention and special treatment needed:** No data available.

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Not available.
- 5.2 Flammable Properties and Hazards:** Carbon oxides,
Flash back possible over considerable distance. Container explosion may occur under fire conditions. No data available. EXPLOSION HAZARDS.
Dry material is an explosive.
No data available.
- Flash Pt:** > -2.99 C Method Used: Estimate
- Explosive Limits:** LEL: No data. UEL: No data.
- Autoignition Pt:** ~ 345.00 C
- 5.3 Fire Fighting Instructions:** Wear self contained breathing apparatus for fire fighting if necessary. Further information. Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Flammable Liquid. Emits toxic fumes under fire conditions. Dry

material is an explosive.

Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Material will not burn.

Section 6. Accidental Release Measures

- | | |
|---|--|
| 6.1 Protective Precautions, Protective Equipment and Emergency Procedures: | 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. Wear respiratory protection. |
| 6.2 Environmental Precautions: | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| 6.3 Methods and Material For Containment and Cleaning Up: | <p>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). PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL. Evacuate area. Shut off all sources of ignition. Use nonsparking tools.</p> <p>PROCEDURE(S) OF PERSONAL PRECAUTION(S)</p> <p>Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves. Methods for cleaning up.</p> <p>Do not attempt to sweep up dry material. Dampen with water prior to sweeping or shoveling. Immediately soak spilled material with water and remove to covered metal containers. Add water to containers. Do not allow material to become dry. Use proper personal protective equipment as indicated in Section 8.</p> <p>Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container.</p> |

Section 7. Handling and Storage

- | | |
|---|---|
| 7.1 Precautions To Be Taken in Handling: | <p>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. User Exposure: Do not get in eyes, on skin, on clothing. Do not breathe vapor.</p> <p>Explosion: Dry material is an explosive. Container explosion may occur under fire conditions. No special handling procedures are required.</p> |
| 7.2 Precautions To Be Taken in Storing: | <p>Store under inert gas. 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. Hygroscopic.</p> <p>Storage class 510) Recommended storage temperature: 2 -8 - 8 deg.C.</p> <p>Keep away from heat, sparks, and open flame.</p> <p>Store away from heat and direct sunlight.</p> <p>Incompatible Materials: Avoid all contact with strong acids and strong bases, Oxidizing agents, Amines,</p> <p>SPECIAL REQUIREMENTS:</p> <p>Do not allow material to become dry. No special storage requirements.</p> |
| Other Precautions: | Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. |

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 STEL: 250 ppm	
		Europe	TWA: 260 mg/m3 (200 ppm)	Skin Absorption
		France VL	TWA: 260 mg/m3 (200 ppm) STEL: 1300 mg/m3 (1000 ppm)	
		OSHA PELs	PEL: 200 ppm	
		Britain EH40	TWA: 266 mg/m3 (200 ppm) STEL: 333 mg/m3 (250 ppm)	Skin Absorption
64-17-5	Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm STEL: 1000 ppm	
		France VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)	
		OSHA PELs	PEL: 1000 ppm	
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()	
		OSHA PELs	PEL: 400 ppm	
67-63-0	Isopropyl alcohol	ACGIH TLV	TLV: 200 ppm STEL: 400 ppm	
		France VL	STEL: 980 mg/m3 (400 ppm)	
		OSHA PELs	PEL: 400 ppm	
		Britain EH40	TWA: 999 mg/m3 (400 ppm) STEL: 1250 mg/m3 (500 ppm)	
		OSHA PELs	PEL: 50 ppm	
108-83-8	Diisobutyl ketone	ACGIH TLV	TLV: 25 ppm	
		France VL	TWA: 250 mg/m3 (25 ppm)	
		OSHA PELs	PEL: 50 ppm	
		Britain EH40	TWA: 148 mg/m3 (25 ppm) STEL: ()	
		OSHA PELs	PEL: 50 ppm	

8.2 Exposure Controls:

8.2.1 Engineering Controls (Ventilation etc.):

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required. There are no special ventilation requirements.

8.2.2 Personal protection equipment:

- Eye Protection:** Face shield and safety glasses. Chemical safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye protection is not normally required.
- 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.
Protective garments not normally required.
- Other Protective Clothing:** Impervious clothing. Flame retardant antistatic protective clothing. Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Protective garments not normally required.
- 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). Respiratory: Respirator protection is not normally required.
- Work/Hygienic/Maintenance Practices:** Wash thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

- 8.2.3 Environmental Exposure Controls:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 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:** liquid. Color: Dark solvent odor.
- pH:** No data.
- Melting Point:** -97.80 C - -40.9 C (-41.67 F)
- Boiling Point:** 64.50 C - 75.4 C (167.78 F)
- Flash Pt:** > -2.99 C Method Used: Estimate
- Evaporation Rate:** No data.
- Saturated Vapor Concentration:** 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.
	No data.
Vapor Density (vs. Air = 1):	No data.
Specific Gravity (Water = 1):	No data.
Density:	~ 0.8712 G/ML (~ 7.27 - LB/GA)
Solubility in Water:	No data.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	~ 345.00 C
Decomposition Temperature:	No data.
Viscosity:	No data.
Explosive Properties:	No data available.
Oxidizing Properties:	No data available.

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

Section 10. Stability and Reactivity

10.1 Reactivity:	No data available.
10.2 Stability:	Unstable [] Stable [X]
10.3 Conditions To Avoid - Hazardous Reactions:	Vapors may form explosive mixture with air. No data available.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
10.4 Conditions To Avoid - Instability:	Exposure to moisture. Heat, flames and sparks. Extremes of temperature and direct sunlight. May be shock-sensitive if dry.
10.5 Incompatibility - Materials To Avoid:	Oxidizing agents, Strong reducing agents, Strong oxidizing agents. acids, Bases, Acid anhydrides, Halogens, Aluminum, Halogenated compounds, Acids. None.
10.6 Hazardous Decomposition or Byproducts:	No data available. In the event of fire: see section 5. Hazardous decomposition products formed under fire conditions. -Carbon oxides. Carbon monoxide, Carbon dioxide, Nitrogen oxides, methane. Aldehydes, carboxylic acids, Hydrogen cyanide, Other decomposition products: None.

Section 11. Toxicological Information

11.1 Information on Toxicological Effects:

Acute toxicity.

Germ cell mutagenicity. No data available.

Reproductive toxicity. Aspiration hazard: Inhalation: Dermal. ROUTE OF EXPOSURE:

Skin Contact: Causes skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes eye irritation.

May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Kidneys. Liver. Cardiovascular system. Gastrointestinal System. Nerves. Epidemiology:

Teratogenicity: No data available.

Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

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.

- Gigiena 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

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 . No data available. Serious eye damage/eye irritation no data available.

Provide adequate ventilation.

Sensitization: No data available.

Chronic Toxicological Specific target organ toxicity - single exposure: May cause drowsiness or dizziness.

Effects: Specific target organ toxicity -repeated exposure: no data available. No data available. Carcinogen.

Result: Tumorigenic:Tumors at site or application. Inhalation. Oral. Specific target organ toxicity - repeated exposure:

Carcinogenicity/Other 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.

Information: 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# 7732-18-5: 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.
9004-70-0	Nitrocellulose	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.
67-63-0	Isopropyl alcohol	n.a.	3	A4	n.a.
7732-18-5	Water	n.a.	n.a.	n.a.	n.a.
8047-99-2	Toluene ethylsulfonamide	n.a.	n.a.	n.a.	n.a.
556-67-2	Cyclotetrasiloxane, Octamethyl-	n.a.	n.a.	n.a.	n.a.

108-83-8 Diisobutyl ketone

n.a.

n.a.

n.a.

n.a.

Section 12. Ecological Information

- 12.1 Toxicity:** No data available.
- 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:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Other adverse effects:** No data available.

Section 13. Disposal Considerations

- 13.1 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. APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION.
Observe all federal, state, and local environmental regulations. 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: None listed.

Section 14. Transport Information

GHS Classification: Flammable Liquids, Category 2 - Danger! Highly flammable liquid and vapor
Serious Eye Damage/Eye Irritation, Category 2 - Warning! Causes serious eye irritation
Skin Corrosion/Irritation, Category 2 - Warning! Causes skin irritation

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 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: 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

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
9004-70-0	Nitrocellulose	No	No	No
64-17-5	Ethyl alcohol	No	No	No
67-63-0	Isopropyl alcohol	No	No	Yes
7732-18-5	Water	No	No	No
8047-99-2	Toluene ethylsulfonamide	No	No	No
556-67-2	Cyclotetrasiloxane, Octamethyl-	No	No	No
108-83-8	Diisobutyl ketone	No	No	No

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
9004-70-0	Nitrocellulose	No	No	Yes
64-17-5	Ethyl alcohol	Yes: Part 5		Yes
67-63-0	Isopropyl alcohol	Yes: Part 5		Yes
7732-18-5	Water	No	No	Yes
8047-99-2	Toluene ethylsulfonamide	No	No	Yes
556-67-2	Cyclotetrasiloxane, Octamethyl-	No	Yes - 102.	Yes
108-83-8	Diisobutyl ketone	No	No	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)	Other US EPA or State Lists
78-93-3	2- Butonone	TSCA: Yes - Inventory; CA PROP.65: No
67-56-1	Methanol	TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.
9004-70-0	Nitrocellulose	TSCA: Yes - Inventory; CA PROP.65: No
64-17-5	Ethyl alcohol	TSCA: Yes - Inventory; CA PROP.65: No
67-63-0	Isopropyl alcohol	TSCA: Yes - Inventory; CA PROP.65: No
7732-18-5	Water	TSCA: Yes - Inventory; CA PROP.65: No
8047-99-2	Toluene ethylsulfonamide	TSCA: No; CA PROP.65: No

556-67-2	Cyclotetrasiloxane, Octamethyl-	TSCA: Yes - Inventory, 8A PAIR; CA PROP.65: No
108-83-8	Diisobutyl ketone	TSCA: Yes - Inventory; CA PROP.65: No
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
78-93-3	2- Butonone	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)
67-56-1	Methanol	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)
9004-70-0	Nitrocellulose	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 8-176; Japan ISHL: No; Korea ECL: Yes - KE-25980; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: Yes - G-8365; Switzerland INNS: No; REACH: Yes - (P)
64-17-5	Ethyl alcohol	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 5-153; Japan ISHL: No; Korea ECL: Yes - KE-13217; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 96: WGK 1; Switzerland Giftliste 1: Yes - G-1158; Switzerland INNS: No; REACH: Yes - 01-2119457610-43: Full, (P)
67-63-0	Isopropyl alcohol	Mexico INSQ: Yes - 1219; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-207; Japan ISHL: Yes - 2-(8)-319; Korea ECL: Yes - KE-29363; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: Yes - Cat.; Germany WHCS: Yes - 135: WGK 1; Switzerland Giftliste 1: Yes - G-1712; Switzerland INNS: No; REACH: Yes - 01-2119457558-25: Full, (P)
7732-18-5	Water	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-1663; Japan ISHL: 2-(4)-1220; Korea ECL: Yes - KE-35400; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120888954-31: Full, (P)
8047-99-2	Toluene ethylsulfonamide	Mexico INSQ: No; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 3-1929; Japan ISHL: No; Korea ECL: Yes - KE-14073; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: No; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2120791115-55: Full, (P)
556-67-2	Cyclotetrasiloxane, Octamethyl-	Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 7-475; Japan ISHL: No; Korea ECL: Yes - KE-26606; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No;

108-83-8 Diisobutyl ketone

Germany WHCS: Yes - 542: WGK 1; Switzerland Giftliste 1: No; Switzerland INNS: No; REACH: Yes - 01-2119529238-36: Full, (P)

Mexico INSQ: Yes - 1157; Australia ICS: Yes; New Zealand IOC: Yes - HSR001130; China IECSC: Yes; Japan ENCS: Yes - 2-2475; Japan ISHL: Yes - 2-(8)-16; Korea ECL: Yes - KE-10907; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 591: WGK 1; Switzerland Giftliste 1: Yes - G-1546; Switzerland INNS: No; REACH: Yes - 01-2119474441-41: Full, (P)

Section 16. Other Information

Revision Date: 03/07/2022

Additional Information About No data available.

This Product:

Company Policy or

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