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	1. Product and Company Ider	ntification
Product Name: Company Name:	4413T 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-marł oding	king-and-c
Emergency Contact:	Chemtrec	(800)424-9300
Information: Intended Use:	Christian Krzykwa Printing ink	(980)500-7144

2. Hazards Identification

Flammable Liquids, Category 2 Skin Corrosion/Irritation, Category 2 Serious Eye Damage/Eye Irritation, Category 1 Carcinogenicity, Category 1B Toxic To Reproduction, Category 1B Specific Target Organ Toxicity (single exposure), Category 2 Acute Toxicity: Oral, Category 4 Skin Sensitization, Category 1A



GHS Signal Word: GHS Hazard Phrases: Danger

- H225 Highly flammable liquid and vapor.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H350 May cause cancer .
- H360 May damage fertility or the unborn child .
- H371 May cause damage to organs .

GHS Precautionary Phrases: P201 - Obtain special instructions before use.

- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting/similar equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 Wash hands thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- GHS Response Phrases: P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel



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	unwell.
	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.
	P308+311 - If exposed of concerned: Call a POISON CENTER/Doctor/Physician
	P313 - Get medical advice/attention.
	P310 - Immediately call a POISON CENTER or doctor/physician.
	P330 - Rinse mouth.
	P332+313 - If skin irritation occurs, get medical advice/attention.
	P333+313 - If skin irritation or rash occurs, seek medical advice/attention.
	P362+364 - Take off contaminated clothing and wash it before reuse.
	P370+378 - In case of fire, use dry chemical, CO2, water spray, or alcohol resistant foam
	to extinguish.
	P391 - Collect spillage.
GHS Storage and Disposal	P403+235 - Store in cool & well-ventilated place.
Phrases:	P405 - Store locked up.
	P501 - Dispose of contents/container a licensed waste disposal company in accordance with local/regional/national/international regulations.
Other Hazards:	Harmful to aquatic life. Toxic to aquatic life with long lasting effects.
Potential Health Effects (Acute and Chronic):	Hazards not otherwise classified (HNOC) or not covered by GHS -none. Hazards not otherwise classified (HNOC) or not covered by GHS. May form explosive peroxides.
	Repeated exposure may cause skin dryness or cracking.
	Chronic: Not available.
Inhalation:	Harmful if inhaled. Causes chemical burns to the respiratory tract. Inhalation may be fatal
	as a result of spasm, inflammation, edema of the larynx and bronchi, chemical
	pneumonitis and pulmonary edema. May cause burning sensation, coughing, wheezing,
	laryngitis, shortness of breath, headache, nausea, and vomiting.
Skin Contact:	Harmful if absorbed through the skin.
Eye Contact:	Can cause severe eye irritation.
Ingestion:	Harmful if swallowed. Causes gastrointestinal tract burns.
	Composition/Information on Ingradiants

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
107-87-9	2-Pentanone	50.0 -60.0 %
64-17-5	Ethyl alcohol	10.0 -20.0 %
108-10-1	Methyl isobutyl ketone	1.0 -10.0 %
67-63-0	Isopropyl alcohol	< 5.0 %
NA	(Trade Secret)	< 5.0 %
3109-63-5	Tetrabutylammonium hexafluorophosphate	< 5.0 %
108-88-3	Toluene	< 1.0 %
NA	(Trade Secret)	< 1.0 %
67-56-1	Methanol	< 1.0 %
98-54-4	4-tert-Butylphenol	< 1.0 %



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4. First Aid Measures		
Emergency and First Aid Procedures:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.	
In Case of Inhalation:	If breathed in, move person into fresh air. Consult a physician. Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen.	
In Case of Skin Contact:	Wash off with soap and plenty of water. Consult a physician. Get medical aid immediately. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.	
In Case of Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.	
In Case of Ingestion:	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. Get medical aid immediately. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.	
Signs and Symptoms Of Exposure:	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11	
Indication of any immediate medical attention and specia treatment needed:		
Note to Physician:	Treat symptomatically and supportively.	
	5. Fire Fighting Measures	
Flash Pt:	> 7.00 C (44.6 F) Method Used: TAG Closed Cup	
Explosive Limits:	LEL: No data. UEL: No data.	
Autoignition Pt:	No data.	
Suitable Extinguishing Medi	a: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Dry powder. Dry sand, Use foam, dry chemical, or carbon dioxide.	
Unsuitable Extinguishing Media:	Do not use water jet.	
Fire Fighting Instructions:	Wear self contained breathing apparatus for fire fighting if necessary. Further information. Use water spray to cool unopened containers. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.	
Flammable Properties and	Carbon oxides,	
Hazards:	silicon oxides.	
Hazardous Combustion Products:	No data available.	



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6. Accidental Release Measures		
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.	
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.	
Steps To Be Taken In Case Material Is Released Or Spilled:	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). Use proper personal protective equipment as indicated in Section 8. Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.	
7. Handling and Storage		
Precautions To Be Taken in Handling:	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. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.	
Precautions To Be Taken in Storing:	Keep container tightly closed in a cool, dry, and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Flammable liquids Hygroscopic. Storage class (TRGS 510): 3: Flammable liquids Store in a cool, dry place. Store in a tightly closed container.	
Other Precautions:	Apart from the uses mentioned in section 1 no other specific uses are stipulated. Apart from the uses mentioned in section 1 no other specific uses are stipulated.	
8. Exposure Controls/Personal Protection		

8. Exposure Controls/Personal Protection				
CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
107-87-9	2-Pentanone	PEL: 200 ppm	TLV: 200 ppm STEL: 150 ppm	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	TLV: 1000 ppm STEL: 1000 ppm	No data.
108-10-1	Methyl isobutyl ketone	PEL: 100 ppm	TLV: 20 ppm STEL: 75 ppm	No data.
67-63-0	Isopropyl alcohol	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
NA	(Trade Secret)	No data.	No data.	No data.
3109-63-5	Tetrabutylammonium hexafluorophosphate	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.
NA	(Trade Secret)	No data.	No data.	No data.
67-56-1	Methanol	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
98-54-4	4-tert-Butylphenol	No data.	No data.	No data.



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Personal Protective Equipment Symbols:		
Respiratory Equipment (Specify Type):	Respiratory: 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). 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.	
Eye Protection:	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). Not available.	
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. Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: ? min.	
	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. Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 175 min. Full contact. Wear appropriate protective gloves to prevent skin exposure.	
Other Protective Clothing:	Complete suit protecting against chemicals. Flame retardant antistatic protective clothing. Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Wear appropriate protective clothing to prevent skin exposure.	
Engineering Controls (Ventilation etc.):	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.	
Environmental Exposure Controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.	
	9. Physical and Chemical Properties	
Physical States:	[]Gas [X]Liquid []Solid	
Appearance and Odor:	Black.	
	solvent odor.	
pH:	No data.	
Melting Point:	-89.50 C (-129.1 F) - 246.00 C (474.8 F)	
Boiling Point:	No data 118.00 C (244.4 F)	
Flash Pt:	> 7.00 C (44.6 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	No data.	
mm Hg):		

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Specific Gravity (Water = 1):No data.1):~ 0.807 g/mLDensity:~ 0.807 g/mLSolubility in Water:No data.Saturated Vapor Concentration:No data.Octanol/Water Partition Coefficient:No data.Autoignition Pt:No data.Decomposition Temperature:No data.Viscosity:No data.
Density:~ 0.807 g/mLSolubility in Water:No data.Saturated Vapor Concentration:No data.Octanol/Water Partition Coefficient:No data.Autoignition Pt:No data.Decomposition Temperature:No data.
Solubility in Water:No data.Saturated VaporNo data.Concentration:No data.Octanol/Water PartitionNo data.Coefficient:No data.Autoignition Pt:No data.DecompositionNo data.Temperature:No data.
Saturated VaporNo data.Concentration:No data.Octanol/Water PartitionNo data.Coefficient:No data.Autoignition Pt:No data.DecompositionNo data.Temperature:Vo data.
Concentration:No data.Octanol/Water PartitionNo data.Coefficient:No data.Autoignition Pt:No data.DecompositionNo data.Temperature:Vo data.
Octanol/Water Partition Coefficient:No data.Autoignition Pt:No data.Decomposition Temperature:No data.
Coefficient:No data.Autoignition Pt:No data.DecompositionNo data.Temperature:
Autoignition Pt:No data.DecompositionNo data.Temperature:
Decomposition No data. Temperature:
Temperature:
-
Viscosity: No data.
······································
Explosive Properties: No data available.
Information on other No data available.
hazards:
Information with regard to

primary physical hazard:

10. Stability and Reactivity		
Reactivity:	No data available.	
Stability:	Unstable [] Stable [X]	
Conditions To Avoid - Instability:	Heat, flames and sparks. Heat, Reacts with air to form peroxides. Conditions to Avoid: Incompatible materials, Exposure to moist air or water.	
Incompatibility - Materials To Avoid:	 Reducing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids. Strong oxidizing agents. 	
Hazardous Decomposition o Byproducts:	r Hazardous decomposition products formed under fire conditionsCarbon oxides. Carbon monoxide, oxides of nitrogen.	
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]	
Conditions To Avoid - Hazardous Reactions:	Vapors may form explosive mixture with air. No data available.	



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	11. Toxicological Information
Toxicological Information:	Acute toxicity.
	Corm cell mutagenicity. No date available
	Germ cell mutagenicity: No data available. In vitro mammalian cell gene mutation test: Mouse. lymphoma cells. Result: negative.
	Reproductive toxicity. Aspiration hazard: Inhalation: Dermal. Developmental Toxicity.
	Inhalation. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
	Effects on Embryo or Fetus: Fetal death.
	Specific Developmental Abnormalities: Central nervous system. Specific Developmental
	Abnormalities: Musculoskeletal system. Specific Developmental Abnormalities:
	Cardiovascular (circulatory) system.
	Behavioral: Somnolence (general depressed activity).
	Ames test.
	Bacteria - Salmonella typhimurium, (OECD Test Guideline 474 male and female. Bone
	marrow. Epidemiology: Teratogenicity: No data available.
	Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:
	CAS# 64-17-5: 1. Acute toxicity, TDLo, Oral, Human, 3371. UL/KG.
	Result:
	Behavioral: Altered sleep time (including change in righting reflex).
	Behavioral: Excitement.
	Behavioral: Coma.
	- Veterinary and Human Toxicology., American College of Veterinary and Comparative
	Toxicology, Publication Office, Comparative Toxicology, Manhattan, KS 66506, Vol/p/yr: 21,272, 1979
	21,272, 1979
	2. Acute toxicity, TDLo, Oral, Human, 700.0 MG/KG.
	Result:
	Behavioral: Changes in psychophysiological tests. - Neurobehavioral Toxicology and Teratology., For publisher information, see NETEEC,
	Fayetteville, NY, Vol/p/yr: 8,77, 1986
	CAS# 67-63-0: 1. Acute toxicity, TDLo, Oral, Human, 14432. MG/KG.
	Result:
	Behavioral: Coma.
	Vascular: BP lowering not charactertized in autonomic section.
	Lungs, Thorax, or Respiration:Dyspnea.
	- New England Journal of Medicine., Massachusetts Medical Soc., 10 Shattuck St.,
	Boston, MA 02115, Vol/p/yr: 277,699, 1967
	2. Acute toxicity, TDLo, Oral, Human, 223.0 MG/KG.
	Result:
	Behavioral: Hallucinations, distorted perceptions. Cardiac:Pulse rate.
	Vascular: BP lowering not charactertized in autonomic section.
	- Journal of Laboratory and Clinical Medicine., C.V. Mosby Co., 11830 Westline
	Industrial Dr., St. Louis, MO 63146, Vol/p/yr: 12,326, 1927

3. Acute toxicity, LDLO, Oral, Human, 3570. MG/KG. Result:



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Behavioral: Coma.

Lungs, Thorax, or Respiration:Respiratory depression.

Gastrointestinal:Nausea or vomiting.

- "Toxicology of Drugs and Chemicals", Deichmann, W.B., Academic Press, Inc., New York, Vol/p/yr: -,339, 1969

4. Acute toxicity, LDLO, Route of Application: Unreported., Human, 2770. MG/KG. Result:

Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels: Cytochrome oxidases (including oxidative phosphorylation).

- Poisoning; Toxicology, Symptoms, Treatments, 2nd ed., Arena, J.M., C.C. Thomas, Springfield, IL, Vol/p/yr: 2,73, 1970

5. Acute toxicity, LD50, Oral, Mouse, 3600. MG/KG.Result:Behavioral: Altered sleep time (including change in righting reflex).

Behavioral: Somnolence (general depressed activity).

- Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 43(1),8, 1978

6. Acute toxicity, LCLO, Inhalation, Mouse, 12800. PPM, 3 H.

Result:

Maternal Effects: Other effects.

- Interagency Collaborative Group on Environmental Carcinogenesis, National Cancer Institute, Memorandum, June 1, Vol/p/yr: 17JU, 1974

7. Acute toxicity, LD50, Intraperitoneal, Mouse, 4477. MG/KG. Result:

Skin and Appendages: Skin: After topical exposure: Dermatitis, allergic.

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

8. Acute toxicity, LD50, Intravenous, Mouse, 1509. MG/KG. Result:

Lungs, Thorax, or Respiration:Fibrosis, focal (pneumoconiosis). Lungs, Thorax, or Respiration:Acute pulmonary edema.

- 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: Rabbit, 6410. MG/KG.
 Result:
 Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

Effects on Newborn: Biochemical and metabolic.

- FAO Nutrition Meetings Report Series., Vol/p/yr: 48A,114, 1970

10. Acute toxicity, LD50, Skin, Species: Rabbit, 12800. MG/KG. Result:

Specific Developmental Abnormalities: Respiratory 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: 1,100, 1974

11. Acute toxicity, LD50, Intraperitoneal, Species: Rabbit, 667.0 MG/KG.



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

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	- EHP, Environmental Health Perspectives., U.S. Government Printing Office, Supt of
	Documents, Washington, DC 20402, Vol/p/yr: 61,321, 1985
	12. Acute toxicity, TCLo, Inhalation, Human, 35.00 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
	13. Acute toxicity, LDLO, Route of Application: Unreported., Human, 2.000 mL/kg. Result:
	 Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Other developmental abnormalities. Japanese Journal of Toxicology, Yakugyo Jihosha, Hokushin Bldg., 2-36 Jinbo-cho, Kanda, Chiyoda, Tokyo 101 Japan, Vol/p/yr: 12,341, 1999
	14. Standard Draize Test, Skin, Species: Rabbit, 500.0 MG.
	Result: Tumorigenic: Carcinogenic by RTECS criteria. Liver: Tumors.
	Blood: Leukemia.
	- National Technical Information Service, Vol/p/yr: AD-A106-94,
	15. Standard Draize Test, Eyes, Species: Rabbit, 100.0 MG. Result:
	Tumorigenic: Carcinogenic by RTECS criteria. Liver: Tumors.
	Blood: Leukemia. - American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave.,
	Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946
Irritation or Corrosion:	Skin corrosion/irritation. Skin. Species: Guinea pig. Result: Mild skin irritation(OECD Test Guideline 404) Eyes. Rabbit.
	Moderate eye irritation. (OECD Test Guideline 405) No data available. Serious eye damage/eye irritation no data available. Result: Tumorigenic:Tumors at site or application. Mild skin irritation -24 Eyes: No skin irritation . Remarks: (anhydrous substance) (OECD Test Guideline 404 No eye irritation . (OECD Test Guideline 405
Sensitization:	No data available. Buehler Test: Species: Guinea pig. Result: negative. (OECD Test Guideline 406)
Chronic Toxicological	Specific target organ toxicity -single exposure (Globally Harmonized System) Specific
Effects:	target organ toxicity -single exposure: May cause respiratory irritation. Specific target organ toxicity -repeated exposure: no data available.
Carcinogenicity/Other Information:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	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. IARC: 2B - Group 2B:

Possibly carcinogenic to humans (4-Methylpentan-2-one).



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This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

CAS# 0.1%: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
107-87-9	2-Pentanone	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	Unknown	n.a.
108-10-1	Methyl isobutyl ketone	n.a.	2B	n.a.	n.a.
67-63-0	Isopropyl alcohol	n.a.	3	Unknown	n.a.
NA	(Trade Secret)	n.a.	n.a.	n.a.	n.a.
3109-63-5	Tetrabutylammonium hexafluorophosphate	n.a.	n.a.	n.a.	n.a.
108-88-3	Toluene	n.a.	3	Unknown	n.a.
NA	(Trade Secret)	n.a.	n.a.	n.a.	n.a.
67-56-1	Methanol	n.a.	n.a.	n.a.	n.a.
98-54-4	4-tert-Butylphenol	n.a.	n.a.	n.a.	n.a.

12. Ecological Information			
General Ecological Information:	No data available. (US-EPA) Environmental: No information available. Physical: No information available. Other: Avoid entering into waters or underground water.		
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.		
Persistence and Degradability:	Biodegradability aerobic -Exposure time 28 d Result: 70 % -Readily biodegradable. No data available. Biodegradability: Biotic/Aerobic. (OECD Test Guideline 301E		
Bioaccumulative Potential:	No data available. No bioaccumulation is to be expected (log Pow <= 4).		
Mobility in Soil:	No data available.		
Other adverse effects:	No data available.		
	13. Disposal Considerations		
Waste Disposal Method:	 Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Contaminated packaging: Dispose of as unused product. 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. 		

14. Transport Information



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LAND TRANSPORT (US DOT):

	1 3FORT (03 DOT).						
	per Shipping Name: ard Class: umber:	Printing ink. 3 1210	FLAMMABLE LIQ	UID :king Group:	II		
		FLOMMOBLE LIQUID	¥2				
LAND TRAN	NSPORT (Canadian 1	DG):					
TDG Shij	pping Name:	Printing ink.					
UN Numl	ber:	1210	Pac	cking Group:	II		
Hazard C	lass:	3 - FLAMMABL	E LIQUID TD	G Classification:			
LAND TRAN	NSPORT (European /	ADR/RID):					
ADR/RID	Shipping Name:	Printing ink.					
UN Numl	ber:	1210	Pac	cking Group:	II		
Hazard C	lass:	3 - FLAMMABL	E LIQUID				
MARINE TR	ANSPORT (IMDG/IM	O):					
	O Shipping Name:	Printing ink.					
UN Numl		1210		cking Group:	II	II	
Hazard C	lass:	3 - FLAMMABI					
				DG MFAG Numb	-		
			Ма	rine Pollutant:	Yes		
	PORT (ICAO/IATA):	5.0					
	A Shipping Name:	Printing ink.	D -1				
UN Numl Hazard C		1210 Packing G 3 - FLAMMABLE LIQUID		cking Group:	II		
	Mass.		ulatory Infor	mation			
EDA SARA (Superfund Amendmen						
CAS #	Hazardous Compor		-		RQ S. 313 (TRI)		
107-87-9	2-Pentanone	(No	No	No		
64-17-5	Ethvl alcohol		No	No	No		
108-10-1	Methyl isobutyl ketor		No	Yes NA			
67-63-0	Isopropyl alcohol		No	No	Yes		
NA	(Trade Secret)		No	No	No		
3109-63-5	Tetrabutylammonium	n hexafluorophosph	ate No	No	No		
108-88-3	Toluene		No	Yes NA	Yes		
NA	(Trade Secret)		No	No	Νο		
67-56-1	Methanol		No	Yes NA	A Yes		
98-54-4	4-tert-Butylphenol		No	No	No		
This materia	al meets the EPA 'Ha	azard Categories	defined for SAR	A Title III Section	is 311/312 as indicated:		
[] Yes [X] No		-		No Acute toxicity (ar			
[X] Yes [] No				No Skin Corrosion o			
[] Yes [X] No [] Yes [X] No		as)	[X] Yes [] [X] Yes []	No Serious eye darr No Respiratory or S			
			[] Yes [X]				
[] Yes [X] No	Pyrophoric (liquid or solid)					
)	[X] Yes []	-	,		
[] Yes [X] No [] Yes [X] No [] Yes [X] No	Pyrophoric gas Self-heating)	[X] Yes [] [X] Yes []	No Carcinogenicity No Reproductive to	kicity		
[] Yes [X] No [] Yes [X] No	Pyrophoric gas Self-heating Organic peroxide)	[X] Yes [] [X] Yes [] [X] Yes []	No Carcinogenicity No Reproductive to	kicity rgan toxicity (single or repeated	exposure	

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- [] Yes [X] No Gas under pressure (compressed gas)
- [] Yes [X] No In contact with water emits flammable gas

[] Yes [X] No Combustible Dust

[] Yes [X] No (Physical) Hazard Not Otherwise Classified (HNOC)

California Proposition 65

This product can expose you to chemicals including Methyl isobutyl ketone, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov. This product can expose you to chemicals including (Trade Secret) and Acetaldehyde, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov. This product can expose you to chemicals including Toluene and Methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

[] Yes [X] No Simple Asphyxiant

[X] Yes [] No (Health) Hazard Not Otherwise Classified (HNOC)

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
107-87-9	2-Pentanone	TSCA: Inventory CA TAC, Title 8: Title 8
64-17-5	Ethyl alcohol	TSCA: Inventory CA TAC, Title 8: Title 8
108-10-1	Methyl isobutyl ketone	TSCA: Inventory CA PROP.65: Yes: Canc+RDTox. CA TAC, Title 8: TAC: Cat. IVa, Title 8 NC TAP: Yes: NC TAP
67-63-0	Isopropyl alcohol	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIb, Title 8
NA	(Trade Secret)	
3109-63-5	Tetrabutylammonium hexafluorophosphate	TSCA: Inventory
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
NA	(Trade Secret)	TSCA: Inventory CA PROP.65: Yes: Canc.
67-56-1	Methanol	TSCA: Inventory CA PROP.65: Yes: RDTox. CA TAC, Title 8: TAC: Cat. Ila NC TAP: Yes: US HAP
98-54-4	4-tert-Butylphenol	TSCA: Inventory, 8A PAIR
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
107-87-9	2-Pentanone	Japan ENCS: 2-542 Germany WHCS: 590: WGK 1 Switzerland Giftliste 1: G-2529 REACH: 01-2119988840-24: Full, (P)
64-17-5	Ethyl alcohol	Japan ENCS: 5-153 Israel HSL: Cat. Germany WHCS: 96: WGK 1 Switzerland Giftliste 1: G-1158 REACH: 01-2119457610-43: Full, (P)
108-10-1	Methyl isobutyl ketone	Mexico INSQ: 1245 Japan ENCS: 2-542 Germany WHCS: 137: WGK 1 Switzerland Giftliste 1: G-2468 REACH: 01-2119473980-30: Full, (P)
67-63-0	Isopropyl alcohol	Mexico INSQ: 1219 Japan ENCS: 2-207



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		Japan ISHL: 2-(8)-319
		Israel HSL: Cat.
		Germany WHCS: 135: WGK 1
		Switzerland Giftliste 1: G-1712
		REACH: 01-2119457558-25: Full, (P)
NA	(Trade Secret)	
3109-63-5	Tetrabutylammonium hexafluorophosphate	Japan ENCS: 2-186
		REACH: (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)
NA	(Trade Secret)	Germany WHCS: : WGK 3
		REACH: (R): Full, (P), C2
67-56-1	Methanol	Japan ENCS: 7-322
		Israel HSL: Cat.
		Germany WHCS: 145: WGK 1
		Switzerland Giftliste 1: G-2063
		REACH: 01-2119433307-44: Full, (P)
98-54-4	4-tert-Butylphenol	Japan ENCS: 4-57
		Germany WHCS: 1187: WGK 2
		Switzerland Giftliste 1: G-4715
		REACH: 01-2119489419-21: Full, (P)

16. Other Information						
Revision Date:	08/04/2022	Previous revision:	06/30/2021			
Hazard Rating System:	HEALTH*2FLAMMABILITY3PHYSICAL0PPEB					
Additional Information About To the best of our knowledge, the information contained herein is accurate. However,						

Additional Information About To the best of our knowledge, the information contained herein is accurate. However, This Product: 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.

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