Revision: 05/02/2023
Supersedes Revision: 03/07/2023

This SDS complies with the US OSHA HCS 2012.

1. Product and Company Identification

Product Name: 1411K

Company Name: Hitachi Industrial Equipment & Solutions America, LLC
75 NW Point Blvd Suite D,
Elk Grove Village, IL 60007

Phone Number: (800)627-5464

Web site address: https://mc.hitachi-iesa.com

Emergency Contact: Chemtrec (800)424-9300

Intended Use: Printing ink for industrial inkjet printers.

2. Hazards Identification

Toxic To Reproduction, Category 1B
Flammable Liquids, Category 2
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3 - Respiratory irritation.
Aquatic Toxicity (Chronic), Category 3

GHS Signal Word: **Danger**

GHS Hazard Phrases:
H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H360 - May damage fertility or the unborn child .
H412 - Harmful to aquatic life with long lasting effects.

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/printing equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P281 - Use personal protective equipment as required.
P235 - Keep cool.

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

comfortable for breathing.
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+313 - IF exposed or concerned: Get medical attention/advice.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment see supplementary fist aid instructions on this label.
P332+313 - If skin irritation occurs, get medical advice/attention.
P337+313 - If eye irritation persists, get medical advice/attention.
P362 - Take off contaminated clothing and wash before re-use.
P370+378 - In case of fire, use water spray, alchohol-resistant foam, dry chemical or carbon dioxide to extinguish.
P363 - Wash contaminated clothing before reuse.

GHS Storage and Disposal Phrases:
P403+233 - Store container tightly closed in well-ventilated place.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local regulations.

Emergency Overview:

Inhalation: Inhalation of vapors may cause drowsiness and dizziness. May cause central nervous system effects such as nausea and headache. May cause respiratory irritation.

Skin Contact: Repeated exposure may cause skin dryness or cracking. May be absorbed through the skin in harmful amounts.

Eye Contact: Vapors may cause eye irritation. Causes eye irritation.

Ingestion: May cause irritation of the digestive tract. May cause central nervous system depression.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
78-93-3	Methyl ethyl ketone	70.0 -80.0 %
67-63-0	Isopropyl alcohol	< 5.0 %
9004-70-0	Nitrocellulose	< 5.0 %
141-78-6	Acetic acid, ethyl ester	< 5.0 %
NA	Proprietary Ingredient (Chrome (III) Complex)	< 5.0 %
64-17-5	Ethyl alcohol	< 0.5 %

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If experiencing respiratory symptoms call a POISON CENTER or doctor/physician.

In Case of Skin Contact: Wash off with soap and plenty of water. Consult a physician. Flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical aid if irritation develops and persists.

In Case of Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. 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: 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. If vomiting occurs naturally, have victim lean forward.

Signs and Symptoms Of Exposure: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Point: > -10.00 C (14.0 F) Method Used: TAG Closed Cup

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

Autoignition Pt: > 385.00 C (725.0 F)

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. 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. Cool all affected containers with flooding quantities of water.

Fire Fighting Instructions: Wear self contained breathing apparatus for fire fighting if necessary.
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. Specific Method(s) of Fire Fighting: Use water spray to cool fire-exposed containers.

Flammable Properties and Hazards: Carbon oxides, Flash back possible over considerable distance. Container explosion may occur under fire conditions. EXPLOSION HAZARDS. Vapor may travel considerable distance to source of ignition and flash back.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: 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: 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. 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.

7. Handling and Storage

Precautions To Be Taken in Handling: Avoid contact with eyes, skin, and clothing. 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 2.2. User Exposure: Do not get in eyes, on skin or clothing. Do not breathe vapor. Container explosion may occur under fire conditions.

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. For precautions see section 2.2. Hygroscopic. Keep away from heat, sparks, and open flame. Store away from heat and direct sunlight. Avoid all contact with strong acids and strong bases, User Exposure: Do not breathe vapor. Do not get in eyes, on skin or clothing.

Other Precautions: Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
78-93-3	Methyl ethyl ketone	PEL: 200 ppm	TLV: 200 ppm STEL: 300 ppm	No data.
67-63-0	Isopropyl alcohol	PEL: 400 ppm	TLV: 200 ppm STEL: 400 ppm	No data.
9004-70-0	Nitrocellulose	No data.	No data.	No data.
141-78-6	Acetic acid, ethyl ester	PEL: 400 ppm	TLV: 400 ppm	No data.
NA	Proprietary Ingredient (Chrome (III) Complex)	No data.	No data.	No data.
64-17-5	Ethyl alcohol	PEL: 1000 ppm	No data.	No data.

Personal Protective Equipment Symbols:

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).

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). Chemical safety goggles.

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: 10 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.

Other Protective Clothing: Impervious clothing. Flame retardant antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Engineering Controls (Ventilation etc.): Use nonsparking tools. Safety shower and eye bath. Mechanical exhaust required. General industrial hygiene practice.

Work/Hygienic/Maintenance Practices: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Wash thoroughly after handling.

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.
Ketone odor.

pH: No data.

Melting Point: ~ -86.00 C (-122.8 F)

Boiling Point: ~ 80.00 C (176.0 F)

Flash Point:	> -10.00 C (14.0 F) TAG Closed Cup
Evaporation Rate:	No data.
Flammability (solid, gas):	No data available.
Explosive Limits:	LEL: No data. UEL: No data.
Vapor Pressure:	No data.
Vapor Density (vs. Air=1):	No data.
Specific Gravity (Water=1):	0.82 at 25.0 C (77.0 F)
Solubility in Water:	No data.
Saturated Vapor Concentration:	No data.
Octanol/Water Partition Coefficient:	No data.
Autoignition Pt:	> 385.00 C (725.0 F)
Decomposition Temperature:	No data.
Viscosity:	No data.

10. Stability and Reactivity

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	Exposure to moisture. Heat, flames and sparks. Extremes of temperature and direct sunlight. May be shock-sensitive if dry.
Incompatibility - Materials To Avoid:	Oxidizing agents, Acid anhydrides, Aluminum, Halogenated compounds, Acids.
Hazardous Decomposition or Byproducts:	Carbon oxides, nitrogen oxides. Aldehydes.
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.

11. Toxicological Information

Toxicological Information:

Acute toxicity.
Serious eye damage/eye irritation:
Specific target organ toxicity -single exposure: May cause respiratory irritation.
Specific target organ toxicity -single exposure (Globally Harmonized System)
Skin Absorption: May be harmful if absorbed through the skin.
Eye irritation .
Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract
Ingestion:May be harmful if swallowed

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:
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

9. 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.
Result:
Specific Developmental Abnormalities: Craniofacial (including nose and tongue).
- 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

CAS# 9004-70-0:
1. Acute toxicity, LD50, Oral, Rat, > 5.000 GM/KG.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 33,159, 1975

2. Acute toxicity, LD50, Oral, Mouse, > 5.000 GM/KG.
Result:
Paternal Effects: Spermatogenesis (including genetic material, sperm morphology,motility, and count).
- Toxicology and Applied Pharmacology, Academic Press, Inc., 1 E. First St., Duluth, MN 55802, Vol/p/yr: 33,159, 1975

CAS# 141-78-6:
1. Other Studies:, TCLo, Inhalation, Rat, 1500. ppm.
Result:
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste): Olfaction: Change in sensation of smell.
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.
- Toxicologic Pathology., Dr. F.A. de la Iglesia, Warner-Lambert Co., Pharmaceutical Research Div., POB 1047, Ann Arbor, MI 48106, Vol/p/yr: 27,618, 1999

2. Acute toxicity, TCLo, Inhalation, Human, 400.0 PPM.
Result:
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.
Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation.
Lungs, Thorax, or Respiration:Other changes.
- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

3. Acute toxicity, LD50, Oral, Mouse, 4100. MG/KG.
Result:
Behavioral: Somnolence (general depressed activity).
Behavioral: Change in motor activity (specific assay).
Behavioral: Coma.
- Gigiena i Sanitariya, Mezhdunarodnaya Kniga, ul. B. Yakimanka, 39, 113095, Moscow 113095 Russia, Vol/p/yr: 48(4),66, 1983

4. Acute toxicity, LC50, Inhalation, Mouse, 45.00 GM/M3, 2 H.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
- Toxicometric Parameters of Industrial Toxic Chemicals Under Single Exposure, Izmerov, N.F., et al., Centre of International Projects, GKNT, Moscow Russia, Vol/p/yr: -,65, 1982

5. Acute toxicity, LD50, Intraperitoneal, Mouse, 709.0 MG/KG.
Result:
Effects on Fertility: Pre-implantation mortality (e.g., reduction in number of implants per female; total number of implants per corpora lutea).
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Effects on Embryo or Fetus: Fetal death.
- Shell Chemical Company. Unpublished Report., Vol/p/yr: -,5, 1961

6. Acute toxicity, LD50, Oral, Species: Rabbit, 4935. MG/KG.
Result:
Skin and Appendages: Skin: After topical exposure: Dermatitis, allergic.
- Industrial Medicine and Surgery., For publisher information, see IOHSA5, Northbrook, IL, Vol/p/yr: 41,31, 1972

7. Acute toxicity, LD50, Skin, Species: Rabbit, > 20.00 ML/KG.
Result:
Cardiac: Pulse rate decreased with fall in BP.
Lungs, Thorax, or Respiration:Other changes.
- Union Carbide Data Sheet, Union Carbide Corp., 39 Old Ridgebury Rd., Danbury, CT 06817, Vol/p/yr: 10/4, 1968

8. Acute toxicity, LC50, Inhalation, Rat, 6000. ppm.
Result:
Reproductive: Other effects on female.
Effects on Newborn: Other neonatal measures or effects.
Effects on Embryo or Fetus: Other effects to embryo.

9. Acute toxicity, LD50, Oral, Species: Guinea pig, 5.500 gm/kg.
Result:
Reproductive: Other effects on female.
Specific Developmental Abnormalities: Central nervous system.
Effects on Newborn: Physical.

10. Acute toxicity, LD50, Oral, Mouse, 4.100 gm/kg.
Result:
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).

11. Standard Draize Test, Eyes, Human, 400.0 PPM.
Result:
Brain and Coverings: Changes in brain weight.
Kidney, Ureter, Bladder: Changes in liver weight.
Kidney, Ureter, Bladder:Changes in tubules (including acute renal failure, acute tubular necrosis).
- Journal of Industrial Hygiene and Toxicology, Vol/p/yr: 25,282, 1943

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

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

Irritation or Corrosion: Skin corrosion/irritation.
Irritating to eyes, respiratory system and skin.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3	Methyl ethyl ketone	n.a.	n.a.	n.a.	n.a.
67-63-0	Isopropyl alcohol	n.a.	3	A4	n.a.
9004-70-0	Nitrocellulose	n.a.	n.a.	n.a.	n.a.
141-78-6	Acetic acid, ethyl ester	n.a.	n.a.	n.a.	n.a.
NA	Proprietary Ingredient (Chrome (III) Complex)	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.

12. Ecological Information

No data available.

Results of PBT and vPvB assessment: PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

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. Observe all federal, state, and local environmental regulations. 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.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Printing ink.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1210 **Packing Group:** II

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Printing ink.
UN Number: UN1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:**

LAND TRANSPORT (European ADR/RID):

ADR/RID Shipping Name: Printing ink.
UN Number: UN1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Printing ink.
UN Number: UN1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Printing ink.
UN Number: UN1210 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
78-93-3	Methyl ethyl ketone	No	Yes NA	No
67-63-0	Isopropyl alcohol	No	No	Yes (5%)
9004-70-0	Nitrocellulose	No	No	No
141-78-6	Acetic acid, ethyl ester	No	Yes NA	No
NA	Proprietary Ingredient (Chrome (III) Complex)	No	No	Yes-Cat. N090 (5%)
64-17-5	Ethyl alcohol	No	No	No

EPA SARA Title III Section 313 Toxic Release Inventory.
This product contains a toxic chemical or chemicals subject to the reporting requirements of EPCRA Section 313 (40 CFR Section 372).

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

[ ] Yes [X] No Explosive
[X] Yes [ ] No Flammable (gases, aerosols, liquid, or solid)
[ ] Yes [X] No Oxidizer (liquid, solid or gas)
[ ] Yes [X] No Self-reactive
[ ] Yes [X] No Pyrophoric (liquid or solid)
[ ] Yes [X] No Pyrophoric gas
[ ] Yes [X] No Self-heating
[ ] Yes [X] No Organic peroxide
[ ] Yes [X] No Corrosive to metal
[ ] 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)
[ ] Yes [X] No Acute toxicity (any route of exposure)
[X] Yes [ ] No Skin Corrosion or Irritation
[X] Yes [ ] No Serious eye damage or eye irritation
[ ] Yes [X] No Respiratory or Skin Sensitization
[ ] Yes [X] No Germ cell mutagenicity
[ ] Yes [X] No Carcinogenicity
[X] Yes [ ] No Reproductive toxicity
[X] Yes [ ] No Specific target organ toxicity (single or repeated exposure)
[ ] Yes [X] No Aspiration Hazard
[ ] Yes [X] No Simple Asphyxiant
[X] Yes [ ] No (Health) Hazard Not Otherwise Classified (HNOC)

California Proposition 65

WARNING This product can expose you to chemicals including .alpha.-Methyl styrene and Styrene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
78-93-3	Methyl ethyl ketone	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIa, Title 8 NC TAP: Yes: NC TAP
67-63-0	Isopropyl alcohol	TSCA: Inventory CA TAC, Title 8: TAC: Cat. IIb, Title 8
9004-70-0	Nitrocellulose	TSCA: Inventory
141-78-6	Acetic acid, ethyl ester	TSCA: Inventory CA TAC, Title 8: Title 8 NC TAP: Yes: NC TAP
NA	Proprietary Ingredient (Chrome (III) Complex)	TSCA: Inventory CA TAC, Title 8: TAC - Cat., Title 8 - Cat. NC TAP: Yes - Cat.
64-17-5	Ethyl alcohol	TSCA: Inventory CA TAC, Title 8: Title 8

CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists
78-93-3	Methyl ethyl ketone	Mexico INSQ: 1193 Japan ENCS: 2-542 Germany WHCS: 150: WGK 1 Switzerland Giftliste 1: G-2429 REACH: (P), 01-2119457290-43: Full
67-63-0	Isopropyl alcohol	Mexico INSQ: 1219 Japan ENCS: 2-207 Japan ISHL: 2-(8)-319 Israel HSL: Cat. Germany WHCS: 135: WGK 1 Switzerland Giftliste 1: G-1712 REACH: (P), 01-2119457558-25: Full
9004-70-0	Nitrocellulose	Japan ENCS: 8-176 Switzerland Giftliste 1: G-8365 REACH: (P)
141-78-6	Acetic acid, ethyl ester	Mexico INSQ: 1173 Japan ENCS: 2-726 Germany WHCS: 95: WGK 1 Switzerland Giftliste 1: G-1157 REACH: (P), 01-2119475103-46: Full
NA	Proprietary Ingredient (Chrome (III) Complex)	Israel HSL: Cat. Germany WHCS: : WGK 2 REACH: (P), (R): Full
64-17-5	Ethyl alcohol	Japan ENCS: 5-153 Israel HSL: Cat. Germany WHCS: 96: WGK 1 Switzerland Giftliste 1: G-1158 REACH: (P), 01-2119457610-43: Full

16. Other Information

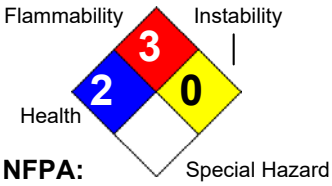
Revision Date: 05/02/2023

Previous revision: 03/07/2023

Hazard Rating System:

HMIS:

NFPA:



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