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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:
 TH-303U-FT

 Product Name:
 TH-303u-FT

 X Code:
 X(22,53)1339

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
Christian Krzykwa (980)500-7144

1.4 Emergency telephone number:

Information:

Emergency Contact: Chemtrec (800)424-9300

Section 2. Hazards Identification

2.1 Classification of the Substance or Mixture:

Flammable Liquids, Category 2

Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label Elements:





GHS Signal Word: Danger

Hazard-determining components of labelling:

Acetone

GHS Hazard Phrases:

H225 - Highly flammable liquid and vapor.

H336 - May cause drowsiness or dizziness.

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.

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

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

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

P235 - Keep cool.

GHS Response Phrases:

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.

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

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

GHS Storage and Disposal Phrases:



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

P405 - Store locked up.

P501 - Dispose of contents/container to ...

UFI:

2.3 Adverse Human Health Hazards not otherwise classified (HNOC) or not covered by GHS -none. Hazards not Effects and Symptoms: otherwise classified (HNOC) or not covered by GHS. 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
64-17-5	Ethyl alcohol 01-2119457610-43	56.0 -85.5 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225
67-64-1	Acetone 01-2119471330-49	4.0 -9.5 %	200-662-2 606-001-00-8	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066
1336-21-6	Ammonium hydroxide 01-2119982985-14	1.0 -5.0 %	215-647-6 007-001-01-2	Skin Corr. 1B: H314 Aquatic (A) 1: H400
7732-18-5	Water na	5.0 -15.0 %	231-791-2 NA	No GHS classifications apply.

Section 4. First Aid Measures

4.1 Description of First AidConsult a physician. Show this safety data sheet to the doctor in attendance. Move out of

Measures: dangerous area.

In Case of Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.

Consult a physician. No specific treatment is necessary since this material is not likely to

be hazardous by inhalation.

In Case of Skin Wash off with soap and plenty of water. Consult a physician. Take off contaminated

Contact: clothing and shoes immediately. No specific treatment is necessary, since this material is

not likely to be hazardous.

In Case of Eye Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Contact: Continue rinsing eyes during transport to hospital. 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. No specific treatment is necessary, since

this material is expected to be non-hazardous.

4.2 Important Symptoms The most important known symptoms and effects are described in the labelling (see

and Effects, Both section 2.2) and/or in section 11

Acute and Delayed:

Note for the Doctor: Treat symptomatically and supportively.

4.3 Indication of any No data available.

immediate medical attention and special treatment needed:





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Section 5. Fire Fighting Measures

5.1 Suitable Extinguishing Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Not available. **Media:**

5.2 Flammable Properties Carbon oxides.

and Hazards:

No data available.

Flash Pt: > -17.00 C Method Used: Estimate

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

Autoignition Pt: > 365.00 C

5.3 Fire Fighting Wear self contained breathing apparatus for fire fighting if necessary.

Instructions: Further information. 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, Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure

Protective Equipment

adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to

and Emergency form explosive concentrations. Vapours can accumulate in low areas.

Procedures: For personal protection see section 8. Evacuate personnel to safe areas.

6.2 Environmental Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Precautions: Discharge into the environment must be avoided. Methods and materials for containment

and cleaning up: Soak up with inert absorbent material and dispose of as hazardous

waste. Keep in suitable, closed containers for disposal.

6.3 Methods and Material

For Containment and

Cleaning Up:

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: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place

in suitable container.

Section 7. Handling and Storage

7.1 Precautions To Be Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from

Taken in Handling: sources of ignition - No smoking. Take measures to prevent the build up of electrostatic

charge. For precautions see section 2. Use explosion-proof equipment. No special

handling procedures are required.

7.2 Precautions To Be

Taken in Storing:

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. Recommended

storage temperature: 2 -8 - 8 deg.C.

Storage class 510) No special storage requirements.

Other Precautions: 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
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	

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64-17-5 Ethyl alcohol

(continued)

67-64-1 Acetone

Britain EH40 TWA: 1920 mg/m3 (1000 ppm)

STEL: ()

ACGIH TI V TLV: 250 ppm

STEL: 500 ppm

Europe TWA: 1210 mg/m3 (500 ppm) France VL TWA: 1210 mg/m3 (500 ppm)

STEL: 2420 mg/m3 (1000 ppm)

OSHA PELs PEL: 1000 ppm

Britain EH40 TWA: 1210 mg/m3 (500 ppm)

STEL: 3620 mg/m3 (1500 ppm)

8.2 **Exposure Controls:**

8.2.1 Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. There are no special ventilation requirements.

8.2.2 Personal protection equipment:

Eye Protection:

(Ventilation etc.):

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). Tightly fitting safety goggles. Faceshield (8-inch minimum). 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. Full contact.

Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min. Material: Nitrile rubber, Minimum layer thickness: 0.11 mm, Break through time: 480 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. Protective garments not normally reauired.

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. Complete suit protecting against

chemicals. Protective garments not normally required.

(Specify Type):

Respiratory Equipment 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). Respirator protection is not normally required.

Work/Hygienic/Mainten Handle in accordance with good industrial hygiene and safety practice. Wash hands

before breaks and at the end of workday. ance Practices:

8.2.3 Environmental Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided. **Exposure Controls:**

Exposure Scenarios: No data available.



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Section 9. Physical and Chemical Properties

9.1	Information	on Basic	Physical and	Chemical	Properties
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Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Color: Clear. pH: No data.

 Melting Point:
 NA -94.44 - 137.00 C

 Boiling Point:
 38.00 C - 100.00 C

Flash Pt: > -17.00 C Method Used: Estimate

Evaporation Rate: No data. **Saturated Vapor** No data.

Concentration:

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: ~ 0.7909 G/ML (~ 6.6 - LB/GA)

Solubility in Water: miscible
Octanol/Water Partition No data.

Coefficient:

Autoignition Pt: > 365.00 C **Decomposition** No data.

Temperature:

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 - No data available. Vapors may form explosive mixture with air.

Hazardous Reactions:

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

Hazardous Reactions:

10.4 Conditions To Avoid - Heat, flames and sparks. Extremes of temperature and direct sunlight.

Instability:

10.5 Incompatibility - Strong oxidizing agents. Strong oxidizing agents, Strong reducing agents, Bases,

Materials To Avoid: Copper, Iron. Zinc. None.

None.

10.6 Hazardous No data available. In the event of fire: see section 5. Other decomposition products:

Decomposition or

Byproducts:



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Section 11. Toxicological Information

11.1 Information on Acute toxicity.

Toxicological Effects:

No data available. Inhalation: Dermal. Germ cell mutagenicity. Reproductive toxicity.

Aspiration hazard: (Ammonium hydroxide)

Specific target organ toxicity - single exposure: Specific target organ toxicity - repeated

exposure: Epidemiology: Teratogenicity: No data available. Reproductive Effects: Mutagenicity: Neurotoxicity: Other Studies:

Irritation or Corrosion: Skin corrosion/irritation. No data available. Serious eye damage/eye irritation no data

available. Provide adequate ventilation.

Result: Tumorigenic: Tumors at site or application. Mild eye irritation -24. Serious eye

damage/eye irritation: Eyes - rabbit -

Sensitization:

No data available. Guinea pig 88%, 4

Result: Tumorigenic:Tumors at site or application.

Chronic Toxicological

Effects:

Specific target organ toxicity -single exposure (Globally Harmonized System) No data available.

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

toxicity - single exposure: May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure:

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. This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. 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. CAS# 7732-18-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

С	AS#	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
	64-17-5	Ethyl alcohol	n.a.	1	A4	n.a.
	67-64-1	Acetone	n.a.	n.a.	A4	n.a.
	1336-21-6	Ammonium hydroxide	n.a.	n.a.	n.a.	n.a.
	7732-18-5	Water	n.a.	n.a.	n.a.	n.a.

Section 12. Ecological Information

No data available. 12.1 **Toxicity:**

No data available. Biodegradability Result: 91 % -Readily biodegradable. - Readily 12.2 Persistence and

biodegradable. Degradability:

12.3 Bioaccumulative

Potential:

No data available. Does not bioaccumulate.

No data available. **12.4** Mobility in Soil:

12.5 Results of PBT and PBT/vPvB assessment not available as chemical safety assessment not required/not

conducted. vPvB assessment:

12.6 Other adverse effects: No data available. An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal. Harmful to aquatic life. Very toxic to aquatic life.



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Section 13. Disposal Considerations

13.1 Waste Disposal

Product.

Method: 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. Dissolve or mix the material with a combustible solvent and

burn in a chemical incinerator equipped with an afterburner and scrubber.

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

Specific Target Organ Toxicity (single exposure), Category 3 - Warning! May cause

respiratory irritation, or may cause drowsiness and dizziness

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: ||

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 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:

Hazard Class: 3 - FLAMMABLE LIQUID



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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)	
64-17-5	Ethyl alcohol	No	No	No	
67-64-1	Acetone	No	Yes NA	No	
1336-21-6	Ammonium hydroxide	No	Yes NA	No	
7732-18-5	Water	No	No	No	
CAS#	Hazardous Components (Chemical Name)	Canadian NPRI	Canadian Toxic	Canadian DSL	
64-17-5	Ethyl alcohol	Yes: Part 5		Yes	
67-64-1	Acetone	No	No	Yes	
1336-21-6	Ammonium hydroxide	No	No	Yes	
7732-18-5	Water	No	No	Yes	
CAS#	Hazardous Components (Chemical Name)	Other US EPA or State Lists			
64-17-5	Ethyl alcohol	TSCA: Yes - Invent	tory; CA PROP.65: N	lo	
67-64-1	Acetone	TSCA: Yes - Inventory; CA PROP.65: No			
1336-21-6	Ammonium hydroxide	TSCA: Yes - Inventory; CA PROP.65: No			
7732-18-5	Water	TSCA: Yes - Inventory; CA PROP.65: No			
CAS#	Hazardous Components (Chemical Name)	International Regulatory Lists			
67-64-1	Acetone	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) Mexico INSQ: Yes; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-29367; Philippines ICCS: Yes;			
1336-21-6	Ammonium hydroxide	Taiwan TCSCA: Yes; Singapore HSL: No; Israel HSL: No; Germany WHCS: Yes - 6: WGK 1; Switzerland Giftliste 1: Yes - G-1031; Switzerland INNS: No; REACH: Yes - 01-2119471330-49: Full, (P) Mexico INSQ: Yes - 2672; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 1-314; Japan ISHL: No; Korea ECL: Yes - KE-01688; Philippines ICCS: Yes; Taiwan TCSCA: Yes; Singapore HSL: Yes - 34022093; Israel HSL: No; Germany WHCS: Yes - 211: WGK 2; Switzerland Giftliste 1: Yes - G-1100; Switzerland INNS: No; REACH: Yes - 01-2119982985-14: Intermediate, (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)			





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Section 16. Other Information

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Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information and recommendations contained herein are, to the best of Hitachi's knowledge and belief, accurate and reliable as of the date issued. Because many factors may affect processing or application/use, HITACHI recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, date and information furnished by Hitachi hereunder are given gratis and Hitachi assumes no obligation or liability for the description, designs, data and information given or results obtained. All such being given and accepted at your risk.