

Revision: 03/03/2022 Supersedes Revision: 11/15/2021

(800)424-9300

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-305U-FT

 Product Name:
 TH-305u-FT

 X Code:
 ✗(22,53)1343

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	s 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

Section 2. Hazards Identification

- 2.1 Classification of the Substance or Mixture: Flammable Liquids, Category 2 Serious Eye Damage/Eye Irritation, Category 2A Specific Target Organ Toxicity (single exposure), Category 3
- 2.2 Label Elements:



GHS Signal Word:DangerHazard-determining components of labelling:2- Butonone

GHS Hazard Phrases:

- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- 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.
- 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.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

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

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

GHS Storage and Disposal Phrases:



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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.

Effects and Symptoms:

	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-xxxx	81.0 -100.0 %	201-159-0 606-002-00-3	Flam. Liq. 2: H225 Eye Damage 2: H319 STOT (SE) 3: H336 EUH066

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 dangerous area.
 In Case of Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
 In Case of Skin Wash off with soap and plenty of water. Consult a physician.
 Contact: In Case of Eye Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
 Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

- 4.2 Important Symptoms and Effects, Both
 Rinse mouth with water. Consult a physician.
 The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- Acute and Delayed: 4.3 Indication of any No data available. immediate medical attention and special treatment needed:

Section 5. Fire Fighting Measures

- 5.1 Suitable Extinguishing Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Media:
- 5.2 Flammable Properties Carbon oxides,
 - and Hazards:Flash back possible over considerable distance. Container explosion may occur under
fire conditions.
No data available.

Flash Pt: -2.99 C Method Used: Closed Cup

 Explosive Limits:
 LEL: 1.8 %(V)
 UEL: 10.1 %(V)

 Autoignition Pt:
 No data.

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

 Instructions:
 Further information.



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	S	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.
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:	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).
		Section 7. Handling and Storage
7.1	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.
7.2	Precautions To Be Taken in Storing:	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. Storage class 510)
	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 Exp	oosure Parameters:		
CAS #	Chemical Name	Jurisdiction	Recommended Exposure
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)

STEL: 900 mg/m3 (300 ppm)	
TWA: 600 mg/m3 (200 ppm)	
STEL: 900 mg/m3 (300 ppm)	
PEL: 200 ppm	
TWA: 600 mg/m3 (200 ppm) STEL: 899 mg/m3 (300 ppm)	Skin Absorption
	TWA: 600 mg/m3 (200 ppm) STEL: 900 mg/m3 (300 ppm) PEL: 200 ppm TWA: 600 mg/m3 (200 ppm)

Limits

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.

Notations



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8.2.2 Personal protection equipment:

	Exposure Scenarios:	No data available.
	Exposure Controls:	
8.2.3	Environmental	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
		standards such as NIOSH (US) or CEN (EU).
		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
	(Specify Type):	respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
		t Where risk assessment shows air-purifying respirators are appropriate use a full-face
	Clothing:	······································
	Other Protective	Impervious clothing. Flame retardant antistatic protective clothing.
		with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.
		advisory only and must be evaluated by an industrial hygienist and safety officer familiar
		from EN 374, contact the supplier of the CE approved gloves. This recommendation is
		If used in solution, or mixed with other substances, and under conditions which differ
		laboratory practices. Wash and dry hands. Splash contact: Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 292 min.
		Dispose of contaminated gloves after use in accordance with applicable laws and good
	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.
	Protective Gloves:	
	Eye Protection:	Face shield and safety glasses.

Section 9. Physical and Chemical Properties

9.1	Information on Basic Physica	l and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	Appearance: Form: liquid. Clear.
		Color: colorless (Upon aging, clear or colorless fluids may develop a slight yellow
		tint which will not affect the product performance).
	pH:	Not available
	Melting Point:	-86.99 C
	Boiling Point:	80.00 C
	Flash Pt:	-2.99 C Method Used: Closed Cup
	Evaporation Rate:	Not available
	Saturated Vapor	No data.
	Concentration:	
	Flammability (solid, gas):	No data available.
	Explosive Limits:	LEL: 1.8 %(V) UEL: 10.1 %(V
	Vapor Pressure (vs. Air or	95 hPa at 20.0 C
	mm Hg):	
		No data.
	Vapor Density (vs. Air = 1):	2.49 - (Air=1.0)
	Specific Gravity (Water = 1):	No data.
	Density:	0.805 G/ML



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Solubility in Water:	soluble
Octanol/Water Partition	0.29
Coefficient:	
Autoignition Pt:	No data.
Decomposition	No data.
Temperature:	
Viscosity:	Not available
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:

inflammation.

9.2.2 Other safety characteristics

		Section 10 Stability and Reactivity
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.2	Stability:	Unstable [] Stable [X]
10.3	Conditions To Avoid -	Vapors may form explosive mixture with air.
	Hazardous Reactions:	
	Possibility of	Will occur [] Will not occur [X]
	Hazardous Reactions:	
10.4	Conditions To Avoid - Instability:	Exposure to moisture. Heat.
10.5	Incompatibility - Materials To Avoid:	Oxidizing agents, Strong reducing agents.
10.6	Hazardous Decomposition or Byproducts:	No data available. In the event of fire: see section 5.
	Byproduoto:	
		Section 11. Toxicological Information
11.1	Information on	Acute toxicity.
	Toxicological Effects:	
		Germ cell mutagenicity. No data available.
		Reproductive toxicity. Aspiration hazard:
		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



CAS #

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	- Shell Chemical Company., Vol/p/	/yr: MSDS-539	0-,		
	Acute toxicity, LC50, Inhalation, M Result:	ouse, 32.00 M	G/M3.		
	Brain and Coverings: Other degen	erative change	es.		
	Biochemical:Metabolism (intermed inflammation.	liary): Effect or	n inflammatio	on or mediatio	on of
	Acute toxicity, LD50, Intraperitone Result:	al, Species: G	uinea pig, 2.0	000 GM/KG.	
Irritation or Corrosion:	Immunological Including Allergic: I Skin corrosion/irritation.	ncrease in hur	noral immun	e response.	
	Result: Tumorigenic:Tumors at site	e or applicatio	n. No skin irr	itation . (OEC	D Test
	Guideline 404) Serious eye damag	ge/eye irritation	n Eyes -Rabl	pit)	
	Irritating to eyes .				
Sensitization:	No data available.				
Chronic Toxicological	Specific target organ toxicity - sing	le exposure: N	lay cause di	owsiness or	dizziness.
Effects:	Specific target organ toxicity -repe	ated exposure	: no data ava	ailable.	
Carcinogenicity/Other Information:	IARC: No component of this produ- identified as probable, possible or ACGIH: No component of this produ- identified as a carcinogen or poter NTP: No component of this produc- identified as a known or anticipate	confirmed hun duct present at ntial carcinoger ot present at le d carcinogen k	nan carcinog levels great n by ACGIH. vels greater by NTP.	en by IARC. er than or eq than or equal	ual to 0.1% is to 0.1% is
	OSHA: No component of this prod identified as a carcinogen or poter	•	•	er than or equ	al to 0.1% is
AS # Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
78-93-3 2- Butonone		n.a.	n.a.	n.a.	n.a.
	Section 12. Ecologica	al Informa	tion		
	Ne data available				

		Section 12. Ecological Information
12.1	Toxicity:	No data available.
12.2	Persistence and	No data available.
	Degradability:	
12.3	Bioaccumulative	No data available.
	Potential:	
12.4	Mobility in Soil:	No data available.
12.5	Results of PBT and	PBT/vPvB assessment not available as chemical safety assessment not required/not
	vPvB assessment:	conducted.
126	Other advorse offects:	No data available

12.6 Other adverse effects: No data available.



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able. Offer surplus tact a licensed prof	and non-recyclable
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2A - Warning! Caus re), Category 3 - W	ses serious eye irritati
ated material [(inclu	ding printing ink
e]	
	11
	uding printing ink
roup:	II
ification:	
- •	uding printing ink
	II
• •	iding printing ink
-	П
ioup:	11
ation	
S. 304 RO	S. 313 (TRI)
Yes NA	No
Canadian Toxic	Canadian DSL
	Yes
	100
	o; TSCA: Yes -
	re), Category 3 - W s and dizziness ated material [(inclu e] ated material [(inclu le] roup: ification: ated material [(inclu le] ated material [(inclu le] roup: nation



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CAS # Hazardous Components (Chemical Name)

78-93-3

2- Butonone

International Regulatory Lists

Mexico INSQ: Yes - 1193; Australia ICS: Yes; New Zealand IOC: Yes; China IECSC: Yes; Japan ENCS: Yes - 2-542; Japan ISHL: No; Korea ECL: Yes - KE-24094; Philippines ICCS: Yes; Taiwan TCSCA: Yes; 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)

Section 16. Other Information

Revision Date:

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Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

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