

1. Product and Company Identification

Product Name: S4136
Company Name: 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-marking-and-coding>
Emergency Contact: Chemtrec (800)424-9300
Information: Christian Krzykwa (980)500-7144
Intended Use: Printing Ink Related Material

2. Hazards Identification

Flammable Liquids, Category 2
Skin Corrosion/Irritation, Category 2
Specific Target Organ Toxicity (single exposure), Category 3
Serious Eye Damage/Eye Irritation, Category 2B



GHS Signal Word: **Danger**

GHS Hazard Phrases: H225 - Highly flammable liquid and vapor.
H315 - Causes skin irritation.
H320 - Causes eye irritation.
H335 - May cause respiratory irritation.

GHS Precautionary Phrases: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting// equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
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.
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.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment see ... on this label.
P332+313 - If skin irritation occurs, get medical advice/attention.
P337+313 - If eye irritation persists, get medical advice/attention.
P362 - Take off contaminated clothing and wash before re-use.

GHS Storage and Disposal P403+233 - Store container tightly closed in a cool and well-ventilated place.

Phrases: P405 - Store locked up.
P501 - Dispose of contents/container a licensed waste disposal company in accordance with all required regulations.

Emergency Overview:

Potential Health Effects (Acute and Chronic): Chronic: Not available.

Inhalation: May cause respiratory tract irritation. Vapors may cause dizziness or suffocation.

Skin Contact: May cause skin irritation.

Eye Contact: Causes eye irritation.

Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

3. Composition/Information on Ingredients

| CAS # | Hazardous Components (Chemical Name) | Concentration |
|----------|--------------------------------------|---------------|
| 563-80-4 | 3-Methyl-2-butanone | 90.0 -100.0 % |

4. First Aid Measures

Emergency and First Aid**Procedures:**

In Case of Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In Case of Skin Contact: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

In Case of Eye Contact: 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: Keep victim under observation. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Note to Physician: Treat symptomatically and supportively.

5. Fire Fighting Measures

Flash Pt: 6.00 C (42.8 F)

Explosive Limits: LEL: 1.80 %vo UEL: 9.00 %vo

Autoignition Pt: 427.00 C (800.6 F)

Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Water may be ineffective. Do NOT use straight streams of water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapors may form explosive mixtures with air. Use water spray to keep fire-exposed containers cool. Containers may explode in the heat of a fire. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled: 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. Clean up spills immediately, observing precautions in the Protective Equipment section. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors.

7. Handling and Storage

Precautions To Be Taken in Handling: Wash thoroughly after handling. Use only in a well-ventilated area. Ground and bond containers when transferring material. Use spark-proof tools and explosion proof equipment. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep away from heat, sparks and flame. Avoid ingestion and inhalation. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames.

Precautions To Be Taken in Storing: Keep away from heat, sparks and flame. Keep away from sources of ignition. Store in a tightly closed container. Store tightly closed in a cool, dry, well-ventilated area away from incompatible substances. Flammables-area.

8. Exposure Controls/Personal Protection

| CAS # | Partial Chemical Name | OSHA TWA | ACGIH TWA | Other Limits |
|----------|-----------------------|----------|--------------|--------------|
| 563-80-4 | 3-Methyl-2-butanone | No data. | TLV: 200 ppm | No data. |

Personal Protective Equipment Symbols:

Respiratory Equipment (Specify Type): 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: Wear chemical splash goggles.

Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.

Other Protective Clothing: Wear appropriate protective clothing to prevent skin exposure.

Engineering Controls (Ventilation etc.): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid

Appearance and Odor: Clear.
solvent odor.

pH: Not available

Melting Point: No data.

Boiling Point: 94.00 C (201.2 F) - 0.00 C (32.0 F)

Flash Pt: 6.00 C (42.8 F)

Evaporation Rate: Not available

Flammability (solid, gas): No data available.

Explosive Limits: LEL: 1.80 %vo UEL: 9.00 %vo

Vapor Pressure (vs. Air or mm Hg): No data.

Vapor Density (vs. Air = 1): 3.0 (air=1)

Specific Gravity (Water = 1): ~ 0.8

Solubility in Water: 6 g/l (20°C)

Saturated Vapor Concentration: No data.

Octanol/Water Partition Coefficient: No data.

Autoignition Pt: 427.00 C (800.6 F)

Decomposition Temperature: NA

Viscosity: Not available

Molecular Formula & Weight: C5H10O 86.13

Information with regard to primary physical hazard:

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability: Ignition sources.

Incompatibility - Materials To Avoid: Strong oxidizing agents.

Hazardous Decomposition or Byproducts: Carbon monoxide, irritating and toxic fumes and gases.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: No data available.

11. Toxicological Information

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

Carcinogenicity/Other Information: CAS# 563-80-4: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

| CAS # | Hazardous Components (Chemical Name) | NTP | IARC | ACGIH | OSHA |
|----------|--------------------------------------|------|------|-------|------|
| 563-80-4 | 3-Methyl-2-butanone | n.a. | n.a. | n.a. | n.a. |

12. Ecological Information

No data available.

13. Disposal Considerations

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. 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

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: 3-Methylbutan-2-one.
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN2397 **Packing Group:** II



LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: 3-METHYLBUTAN-2-ONE.
UN Number: UN2397 **Packing Group:** II
Hazard Class: 3 - FLAMMABLE LIQUID **TDG Classification:**

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: 3-Methylbutan-2-one.
UN Number: UN2397 **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) |
|----------|--------------------------------------|--------------|-----------|--------------|
| 563-80-4 | 3-Methyl-2-butanone | No | No | No |

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

| | | | |
|---|---|---|--|
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Explosive | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Acute toxicity (any route of exposure) |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Flammable (gases, aerosols, liquid, or solid) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Skin Corrosion or Irritation |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Oxidizer (liquid, solid or gas) | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Serious eye damage or eye irritation |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Self-reactive | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Respiratory or Skin Sensitization |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Pyrophoric (liquid or solid) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Germ cell mutagenicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Pyrophoric gas | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Carcinogenicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Self-heating | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Reproductive toxicity |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Organic peroxide | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Specific target organ toxicity (single or repeated exposure) |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Corrosive to metal | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Aspiration Hazard |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Gas under pressure (compressed gas) | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Simple Asphyxiant |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | In contact with water emits flammable gas | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Health) Hazard Not Otherwise Classified (HNOC) |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Combustible Dust | | |
| <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Physical) Hazard Not Otherwise Classified (HNOC) | | |

| CAS # | Hazardous Components (Chemical Name) | Canadian NPRI | Canadian Toxic | Canadian DSL |
|----------|--------------------------------------|---------------|----------------|--------------|
| 563-80-4 | 3-Methyl-2-butanone | No | No | Yes |

| CAS # | Hazardous Components (Chemical Name) | Other US EPA or State Lists |
|----------|--------------------------------------|---|
| 563-80-4 | 3-Methyl-2-butanone | TSCA: Inventory CA TAC, Title 8: Title 8 |

CAS # **Hazardous Components (Chemical Name)**
563-80-4 3-Methyl-2-butanone

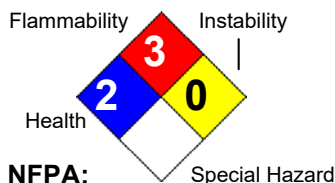
International Regulatory Lists
Mexico INSQ: 2397
Japan ENCS: 2-542
Germany WHCS: 1686: WGK 1
Switzerland Giftliste 1: G-4316
REACH: 01-2119457010-55: Full, (P)

16. Other Information

Revision Date: 07/09/2020

Previous revision: 11/26/2019

Hazard Rating System:



Additional Information About No data available.

This Product:

**Company Policy or
Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, 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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