

According to REG (EC) no.1907/2006 (REACH) with its amendment REG (EU) No. 2015/830

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**Product Identification:** 2-(Cyanomethyl)pyridine 0537Gj Clp10 Div.3 SDS 2-(Cyanomethyl)pyridine

Date of issue: February 17, 2021

Date of Compilation: April 19, 2012

Date of Revision : February 17, 2021

Due Date of Revision: January 2024

Revision Number : 10

Version Number : 0537Gj Clp10 Div.3 sds 2-(Cyanomethyl)pyridine

Supersedes date : October 16, 2019

Supersedes version : 0537Gj Clp09 Div.3 sds 2-(Cyanomethyl)pyridine



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0537Gj Clp10 Div.3 SDS 2-(Cyanomethyl)pyridine

Date of issue: February 17, 2021

### SECTION 1.: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Product identification: 2-(Cyanomethyl)pyridine; CAS RN; 2739-97-1; EC#; 220-364-6

1.1.1. **Trade name:** 2-(Cyanomethyl)pyridine

1.1.2. **Systematic Name:** Pyridine-2-acetonitrile

1.1.3. **Synonyms:** Pyridine-2-acetonitrile

1.1.5 Molecular Formula:  $C_7H_6N_2$ 

1.1.6. Structural Formula:

CN

**1.2 Identified uses:** 2-(Cyanomethyl)pyridine is used as an intermediate in the synthesis of active pharmaceutical ingredients like Mefloquine, which is an orally-administered antimalarial drug used as a prophylaxis against and treatment for malaria.

Uses advised against: None

1.3 Company / supplier: FACTORY & REGISTERED OFFICE:

Jubilant Ingrevia Limited Bhartiagram, Gajraula

District: Amroha

Uttar Pradesh-244223, India

PHONE NO: +91-5924-252353 to 252360 Contact Department-Safety: Ext. 7424

FAX NO : +91-5924-252352

#### **HEAD OFFICE:**

Jubilant Ingrevia Limited Plot 1-A, Sector 16-A, Institutional Area, Noida, Uttar Pradesh-201301 India.



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PHONE NO: +91-120-4361000

FAX NO : +91-120-4234881 / 84 / 85 / 87 / 95 / 96

Email: <a href="mailto:support@jubl.com">support@jubl.com</a>

Website: www.jubilantingrevia.com

1.4 Emergency telephone:

**CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBERS:** 

**North America:** 1-800-255-3924 **International:** +1-813-248-0585

India: 000-800-100-4086 Brazil: 0-800-591-6042 Mexico: 01-800-099-0731 China: 400-120-0751

### **SECTION 2:**

#### **HAZARDS IDENTIFICATION**

### 2.1 Classification of the substance

# 2.1.1. Classification according to regulation(EC) 1272/2008

Acute Toxicity Oral: Category 3	H301
Acute Toxicity Dermal: Category 2	H310
Serious eye damage/eye irritation: Category 2	H319
Skin Corrosion/irritation: Category 2	H315
Specific Target Organ Toxicity: Category3	H335

(After Single exposure)

# 2.2 Label elements according to regulation (EC) 1272/2008

Pictograms:



GHS 06-Toxic

Signal word: Danger!

## **Hazard and precautionary statements:**

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## **Hazard Statements**

• H301: Toxic if swallowed.

• H310: Fatal in contact with skin.

• H319: Causes serious eye irritation.

• H315: Causes skin irritation.

• H335: May cause respiratory irritation.

## PRECAUTIONARY STATEMENTS

#### **Prevention**

- P280: Wear protective gloves/clothing and eye/face protection.
- P270: Do not eat, drink or smoke when using this product.
- P264: Wash thoroughly after handling.
- P262: Do not get in eyes, on skin, or on clothing.
- P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.

## Response

- P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P330: Rinse mouth.
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P332+313: If skin irritation occurs: Get medical advice/attention.
- P362: Take off contaminated clothing and wash before reuse.
- P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.
- P337+313: If eye irritation persists: Get medical advice/attention.
- P302+350: IF ON SKIN: Gently wash with soap and water.
- P310: Immediately call a POISON CENTER or doctor/physician.
- 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.

#### Storage

- P405: Store locked up.
- P403+233: Store in a well ventilated place. Keep container tightly closed.

#### **Disposal**

• P501: Dispose of contents/container to local/regional/national/international regulations.

#### 2.3 Other Hazards

• Substance is not classified as PBT nor as vPvB. For further details see section 12.

#### SECTION 3: COMPOSITION / INFORMATION ON INGERDIENTS



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Substance	CAS No.	EINECS	Purity	Classification acc. to reg.(EC) no. 1272/2008		
		No.		<b>Hazard Classes and</b>	Pictograms	Hazard
				categories	Signal	Statements
					Words	
2-(Cyanomethyl)	2739-97-1	220-364-6	≥ 98%	Acute Toxicity Oral:	GHS 06	H301
pyridine				Category 3		H310
				Acute Toxicity		H319
				Dermal: Category 2		H315
				Serious eye		H335
				damage/eye		
				irritation: Category 2	<b>V</b>	
				Corrosion/irritation:		
				Category 2		
				Specific Target		
				Organ Toxicity:		
				Category3		
				(After Single		
				exposure)		

# **SECTION 4:**

#### FIRST AID MEASURES

# 4.1. Description of first aid measures.

- **Eyes**: If in eyes rinse cautiously with water for at least 15 minutes. Remove contact lenses if easy to do so. Continue rinsing. Seek medical attention.
- **Skin:** Immediately take off all contaminated clothing. Wash thoroughly with water for at least 15 minutes. Wash contaminated clothes before reuse. Seek immediate medical attention.
- **Inhalation**: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if you feel unwell.
- **Ingestion**: If swallowed call a poison center if you feel unwell. Rinse mouth. Do NOT induce vomiting by use of emetics. Seek medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed.

• It causes skin irritation and serious eye irritation. It may cause irritation to respiratory system. It is toxic if swallowed & fatal in contact with skin. It may cause nausea, vomiting, weakness, headache and diarrhea.

### Acute effects:

- **Eyes:** Causes serious eye irritation.
- **Skin:** Fatal in contact with skin.

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2-(Cyanomethyl)pyridine

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• **Ingestion:** It is toxic if swallowed.

• **Inhalation:** 2-(Cyanomethyl) pyridine is irritating, to mucous membrane and upper respiratory tract.

## Chronic effects:

• To the best of our knowledge, the chronic health effects of this product have not been fully investigated.

## 4.3. Indication of any immediate medical attention and special treatment needed.

• **Note to physician:** Treat symptomatically.

#### **SECTION 5:**

#### FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media.

• Appropriate extinguishing media: Dry chemical powder, carbon dioxide, and alcohol resistant foam. Water may also be used. Water sprays can be effective in cooling down the fire-exposed containers and knocking down the vapours. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures fog or alcohol-resistant foam by directing streams to the periphery of the fires to prevent spread.

# 5.2. Special hazards arising from the substance or mixture.

- Toxic vapors may be released on thermal decomposition including nitrogen oxides, carbon monoxide and hydrogen cyanide.
- High vapor concentration may result in an explosion hazard.
- Vapors are heavier than air. May travel considerable distance from source and flashback.
- Containers may explode when heated.

# 5.3. Advice for firefighters.

- Evacuate the area and fight fires from a safe distance.
- If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions or as per locally valid procedures.
- Fire-fighters must wear Self Contained Breathing Apparatus (SCBA).
- Chemical is water-soluble. Report any run-off of firewater's contaminated with this chemical as per local and federal procedures applicable.

#### **SECTION 6:**

# ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures.

#### **6.1.1** For non-emergency personnel

- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Shut off all possible sources of ignition.
- Wipe up.



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• Decontaminate all equipment.

## **6.1.2** For emergency personnel

- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Stop leaks if possible.
- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.

## 6.2. Environmental precautions.

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.
- Wipe up.
- Prevent, by any means available, spillage from entering drains or water and watercourses.
- Collect recoverable product into labeled containers for recycling, recovery or disposal.
- Contain spill with sand, earth or vermiculite.
- Spread area with lime or absorbent material, and leave for at least 1 hour before washing.

# 6.3. Methods and material for containment and cleaning up.

- Clean up all tools and equipment.
- Decontaminate all equipment.

### 6.4. Reference to other sections.

• For more information please refer to section 8 and 13.

## **SECTION 7:**

#### HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- Do not breathe vapor or mist.
- Wear protective gloves/clothing and eye/face protection.
- Wash thoroughly after handling.
- Ground and secure containers when dispensing or pouring product.
- Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Launder contaminated clothing before re-use.
- If on skin or hair, IMMEDIATELY remove all contaminated clothing and rinse/shower with plenty of water.
- Use in a well ventilated place/Use protective clothing commensurate with exposure levels.

#### 7.2. Conditions for safe storage, including any incompatibilities

• Store ambient temperature in a dry and well ventilated place.



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• Keep only in original container.

- Keep container tightly closed when not in use.
- Keep away from heat and sources of ignition.

## 7.3. Specific end use(s)

• 2-(Cyanomethyl)pyridine is used as an intermediate in the synthesis of active pharmaceutical ingredients like Mefloquine, which is an orally-administered antimalarial drug used as a prophylaxis against and treatment for malaria.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

## 8.1. Control parameters

# **8.1.1 Exposure Limits Values**

Chemical name	STEL (ppm)	NIOSH	ACGIH	OSHA
2-(Cyanomethyl)pyridine	Not available	Not available	Not available	Not available

#### **8.1.2**Exposure Limits (International):

• Not available.

#### 8.1.3 Derived No-Effect-Levels (DNEL) / Predicted No-effect-concentration (PNEC)

• DNEL and PNEC data not available.

#### 8.2. Exposure controls

#### **8.2.1** Appropriate Engineering Controls:

• Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits. Local ventilation is usually preferred. Ensure that eyewash stations and safety showers are close to the workstation location.

#### **8.2.2. Personal Protection:**

- Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.
- **Hands**: Wear appropriate protective gloves to prevent skin exposure.
- Eyes: Safety goggles/ Chemical Safety glasses and Face shield.
- **Clothing**: Boots and clothing to prevent contact.
- **Respirator**: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

#### **General Hygiene and general comments:**

• Wash hands and face after working with substance.



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• Immediately change contaminated clothing.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1.	Appearance	Light yellow to reddish colour liquid
2.	Odor	Not available
3.	Odor Threshold	Not available
4.	pH	7.0-7.5(16g/l water @20 <sup>0</sup> C)
5.	Melting point/Freezing point	23-25 <sup>0</sup> C
6.	Boiling Point	66-68 <sup>0</sup> C at 1 mm Hg
7.	Flash point	93 <sup>0</sup> C
8.	Evaporation rate (n-BuAc=1)	Not available
9.	Flammability	Not available
10.	Upper/lower flammability or Explosive limits	Not available
11.	Vapor pressure	Not available
12.	Vapor density (air=1)	Not available
13.	Relative density	1.059
14.	Solubility	Soluble in water and toluene
15.	Partition coefficient : n- (Octonol / water)	0.37



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16.	Auto-ignition temperature	Not available
17.	Decomposition temperature	Not available
18.	Viscosity	Not available
19.	Explosive property	No
20.	Oxidizing property	No

### **SECTION 10:**

#### STABILITY AND REACTIVITY

### 10.1. Reactivity

• No data available.

#### **10.2.** Chemical stability

• Stable under normal temperature and pressures.

# 10.3. Possibility of hazardous reactions

• Hazardous Polymerization: Will not occur.

# 10.4. Conditions to avoid

• Keep away from heat, sparks, flame, high temperature and incompatible chemicals, dust generation.

### 10.5. Incompatible materials

• Strong Oxidizing agents

## 10.6. Hazardous decomposition products

• Thermal decomposition may produce carbon monoxide and oxides of nitrogen, carbon dioxide & Hydrogen cyanide (hydrocyanic acid) and irritating and toxic fumes.

#### **SECTION 11:**

#### TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

#### a) Acute toxicity

• It causes skin irritation and serious eye irritation. It may cause irritation to respiratory system. It is toxic if swallowed & fatal in contact with skin. It may cause nausea, vomiting, weakness, headache and diarrhea.

### Chronic effects:

• To the best of our knowledge, the chemical, physical and toxicological properties of this chemical have not been thoroughly investigated.

#### **TOXICITY:**

- RTECS#: Unlisted
- LD50 (Oral Rat) = 166 mg/kg.
- LD50 (Dermal Rat)= 68 mg/kg

#### b) Skin corrosion/irritation

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Causes skin irritation.

- c) Serious eye damage/irritation
  - Causes serious eye irritation.
- d) Respiratory or skin sensitization
  - No data is available.
- e) Germ cell Mutagenicity
  - No data is available.
- f) Carcinogenicity
  - Not listed by NTP, IARC and OSHA.
  - Not present on the EU CMR list.
  - According to information presently available 2-(Cyanomethyl)pyridine is not found to be carcinogenic.
- g) Reproductive toxicity
  - No data is available.
- h) STOT-single exposure
  - May cause respiratory irritation
- i) STOT- repeated exposure
  - No data available.
- *j)* Aspiration Hazards
  - No data available.

### **SECTION 12:**

#### **ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

#### 12.1.1 Ecotoxicity:

- The Ecotoxicity data is not available.
- Fathead minnow LC<sub>50</sub> (96 hr)- 113.18 mg/L (Predicted Fathead minnow LC50 (96 hr) from Consensus method)

Based on the estimated value it is expected to be non-toxic to fish and other aquatic organisms.

#### 12.2. Persistence and degradability

• It is not expected to be readily biodegradable in aerobic and anaerobic conditions.

#### 12.3. Bio accumulative potential

- BCF = 3.162
- Log Kow = 0.37

Based on the Log Kow and Bioconcentration factor value it is expected to have low potential to concentrate in fatty tissue of fish and aquatic organisms.



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# 12.4. Mobility in soil

• Log Koc = 1.698 (estimated). Low sorption.

- Henry's Law Constant = 3.23E-009 atm/m<sup>3</sup> mole at 25 degrees. It is non-volatile from aqueous bodies.
- Log Kow = 0.37 (estimated). Low potential to bioaccumulate.

## 12.5. Results of PBT and vPvB assessment

The substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII

#### 12.6. Other adverse effects.

- Environment Fate:
- Based on the environmental modeling, this material has a low potential to get absorbed in the organic matter of soil and is non-volatile from water bodies. Since this is an estimated result it is recommended that the material should not be disposed into the environment. The material should never be disposed into the sewage.

#### **SECTION 13:**

#### DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

- Burn in a chemical incinerator equipped with an afterburner and scrubber.
- Dispose of this material in accordance with standard practice for disposal of potentially hazardous materials as required by applicable federal, state or local laws. Note that disposal regulations may also apply to empty containers and equipment rinsates.

#### **SECTION 14:**

#### TRANSPORT INFORMATION

• This substance is considered to be Hazardous for transport by Air/Rail/Road and Sea and thus regulated by IATA/ICAO/ARD/RID/IMO/IMDG.

<b>Mode of Transport</b>	Agency
Land transport	ADR/RID
Maritime Transport	IMDG
Air Transport	IATA

#### 14.1. UN number

• UN 3276.

# 14.2. UN proper shipping name

• Nitriles, Toxic, Liquid N.O.S. (2-(CYANOMETHYL) PYRIDINE.

### 14.3. Transport hazard class (es)



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Hazard class 6

• Sub class, Toxic 6.1

Hazard Label.

## 14.4. Packing group

II



## 14.5. Environmental hazards

• It is expected that this chemical is not a marine pollutant and is not harmful to the Aquatic environment.

#### **SECTION 15:**

#### **REGULATORY INFORMATION**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture. Classification (as per Regulation (EC) No 1272/2008):

- Hazards Class and Category: Acute Tox Dermal Cat 2; Acute Tox. Oral Cat 3; Eye Irrit. Cat 2,; Skin Irrit. Cat 2;STOT SE Cat 3
- Hazard Statements: H310,H301,H319, H315,H335

# **US** information

• CAS# 2739-97-1 is not listed on the TSCA inventory.

## **CANADA**

• The substance is not specified in any of the list and there is no control measure imposed on the substance.

# **SECTION 16:**

### OTHER INFORMATION

### (a) Compilation information of safety data sheet

Chemical: 2-(Cyanomethyl)pyridine.

CAS #: 2739-97-1

File Name: 0537Gj Clp10 Div.3 sds 2-(Cyanomethyl)pyridine

**Revision Number:** 10

**Date of Issue of SDS:** February 17, 2021 **Revision Due Date:** January, 2024

# (b) A key or legend to aberrations and acronyms used in the safety data sheet;

- PBT =Persistent Bio accumulative and Toxic.
- vPvB= Very Persistent and Very Bio accumulative.
- SCBA= Self Contained Breathing Apparatus.
- NIOSH REL= National Institute for Occupational Safety and Health Recommended Exposure Limit. OSHA PEL=Occupational Safety and Health Administration Permissible Exposure Limit.
- OELTWA= Occupational Exposure Limit Time Weighted Averages.
- IDLH= Immediately Dangerous to Life or Health.
- UEL= Upper Explosive Limit.



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- LEL= Lower Explosive Limit.
- RTECS= Registry of Toxic Effects of Chemical Substances.
- NTP=National Toxicology Program.
- IARC= International Agency for Research on Cancer.
- EPA=Environmental Protection Agency.
- TSCA= Toxic Substances Control Act.
- CERCLA= Comprehensive Environmental Response, Compensation, and Liability Act.
- SARA= Superfund Amendments and Reauthorization Act.
- NFPA= National Fire Protection Association.
- WHIMS= Workplace Hazardous Materials Information System.
- DSL/NDSL= Domestic/Non-Domestic Substances List.
- CSR=Chemical Safety Report.
- BCF = Bio Concentration Factor.
- DNEL = Derived No Effect Level.
- PNEC = Predicted No Effect Concentration.
- TLV = Threshold Limit Value.
- ACGIH = American Conference of Governmental Industrial Hygienists.
- REACH = Registration, Evaluation .Authorization and Restriction of Chemicals.
- CLP = Classification, Labelling and Packaging.
- LD / LC = Lethal Doses / Lethal Concentration.
- GHS = Globally Harmonised System.
- ADR = Accord europeen relative au transport international de marchandises.
- IMDG-Code = International Maritime Code for Dangerous Goods.
- EmS = Emergency measures on Sea.
- ICAO = International Civil Aviation Organization.
- IATA/DGR= International Air Transport Association/Dangerous Goods Regulation.

### (c) Key Literature reference and sources for data

#### Biographical reference and data sources

- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 790/2009
- DIR 67/548/EWG, last modification by DIR 2009/2/EC

#### **Internet**

- RTECS
- ESIS
- (d) List of Hazard statements



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Hazards
Statements

- H301: Toxic if swallowed.
- H310: Fatal in contact with skin.
- H319: Causes serious eye irritation.
- H315: Causes skin irritation.
- H335: May cause respiratory irritation.

# **Company's Declaration:**

Information contained in this SDS is believed to be correct but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. This SDS shall be used as a guide only. Jubilant Ingrevia Limited makes no warranties expressed or implied of the adequacy of this document for any particular purpose.

(End of Safety Data Sheet)