



Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its
amendment Regulation (EC) No. 2020/878

Product Identification: 2-(Cyanomethyl)pyridine

0537Gj Clp11 Div.3 SDS
2-(Cyanomethyl)pyridine

Date of issue: February 26, 2024

Date of Compilation : April 19, 2012

Date of Revision : February 26, 2024

Due Date of Revision : January 2027

Revision Number : 11

Version Number : 0537Gj Clp11 Div.3 sds 2-(Cyanomethyl)pyridine

Supersedes date : February 17, 2021

Supersedes version : 0537Gj Clp10 Div.3 sds 2-(Cyanomethyl)pyridine



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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

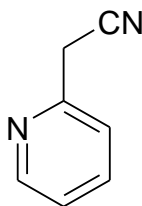
1.1.1. **Trade name:** 2-(Cyanomethyl)pyridine

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

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

1.1.5 **Molecular Formula:** C₇H₆N₂

1.1.6. **Structural Formula:**



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
T: +91-5924-267437, +91-5924-267438

HEAD OFFICE:

Jubilant Ingrevia Limited
Plot 1-A, Sector 16-A,
Institutional Area, Noida,
Uttar Pradesh-201301 India.
PHONE NO: +91-120-4361000
FAX NO : +91-120- 4234881 / 84 / 85 / 87 / 95 / 96



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Email: support@jubl.com

Website: www.jubilantingrevia.com

1.4 Emergency telephone:

For Chemical Emergency ONLY (in the case of fire, leak, spill, exposure or accident)

Call Chemtrec: 1-800-424-9300 (US), 1-703-527-3887 (Outside U.S.)

Chemtrec (India) : 000-800-100-7141

For ALL other emergencies call Emergency Control Room Gajraula at 99970 22412

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 (After Single exposure)	H335

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

Pictograms:



GHS 06-Toxic

Signal word: Danger!

Hazard and precautionary statements:

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.



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PRECAUTIONARY STATEMENTS

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

3.1 Substances

Substance	CAS No.	EINECS No.	Purity	Classification acc. to reg.(EC) no. 1272/2008		
				Hazard Classes and categories	Pictograms Signal Words	Hazard Statements




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2-(Cyanomethyl)pyridine	2739-97-1	220-364-6	≥ 98%	Acute Toxicity Oral: Category 3 Acute Toxicity Dermal: Category 2 Serious eye damage/eye irritation: Category 2 Corrosion/irritation: Category 2 Specific Target Organ Toxicity: Category 3 (After Single exposure)	GHS 06 	H301 H310 H319 H315 H335
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3.2 Mixtures

- Not applicable

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.



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- **Skin:** Fatal in contact with skin.
- **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.



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- Wipe up.
- 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



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- Store ambient temperature in a dry and well ventilated place.
- 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:



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- Wash hands and face after working with substance.
- Immediately change contaminated clothing.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value/Test method/Remarks
1.	Physical state	Liquid
2.	Color	Light yellow to reddish colour liquid
3.	Odor, Odor Threshold	Not available
4.	Melting point/freezing point	23-25 ⁰ C
5.	Boiling point or initial boiling point and boiling range	66-68 ⁰ C at 1 mm Hg
6.	Flammability	Not available
7.	Lower and upper explosion limit	Not available
8.	Flash point	93 ⁰ C
9.	Auto-ignition temperature	Not available
10.	Decomposition temperature	Not available
11.	pH	7.0-7.5(16g/l water @20 ⁰ C)
12.	Kinematic viscosity	Not available
13.	Solubility in water	Soluble in water and toluene



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	in other solvents	
14.	Partition coefficient n-octanol/water (log value)	0.37
15.	Vapor pressure	Not available
16.	Density and/or relative density	1.059
17.	Relative vapour density	Not available
18.	Particle characteristics	Not applicable

9.2. Other information.

9.2.1. Information with regard to physical hazard classes

- No additional information available

9.2.2. Other safety characteristics

- No additional information available

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.



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SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:

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*

- 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.

11.2. Information on other hazards

11.2.1. Endocrine Disrupting Properties:



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- This product does not contain any known or suspected endocrine disruptors.

11.2.2 Other information

- No additional information available.

SECTION 12:

ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1 Ecotoxicity:

- The Ecotoxicity data is not available.
- Fathead minnow LC₅₀ (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.

12.4. Mobility in soil

- Log Koc = 1.698 (estimated). Low sorption.
- Henry's Law Constant = 3.23E-009 atm/m³ 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. Endocrine disrupting properties:

- This product does not contain any known or suspected endocrine disruptors

12.7. 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.



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SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Information regarding the disposal of the product: Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

13.1.2. Information regarding the disposal of the packaging: Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product. Dispose of this container to hazardous or special waste collection point.

13.1.3. Physical/chemical properties that may affect waste treatment options shall be specified: None

13.1.4. Sewage disposal: Avoid release to the environment. Do not flush to sewer. Waste codes should be assigned by the user based on the application for which the product was used. Do not empty into drains. Do not let this chemical enter the environment.

13.1.5. Special precautions for any recommended waste treatment: NOTE: Generator is responsible for proper waste characterization. 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 reinstates.

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.

Mode of Transport	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).



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14.3. Transport hazard class (es)

- Hazard 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

Status in Global Chemical Inventories-

<u>Chemical Inventory Lists:</u>	<u>Status</u>
TSCA:	Not listed
EC Inventory	Listed
Canada(DSL/NDSL):	Not listed
Taiwan Chemical Substance Inventory (TCSI)	Listed
New Zealand Inventory of Chemicals (NZIoC)	Not listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Not listed
Inventory of Existing and New Chemical Substances (ENCS)	Not listed
Japan ISHL Existing Substances List (ISHL)	Not listed
China: IECSC	Not listed



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China: Inventory of Hazardous Chemicals (2015)	Not listed
Existing Chemicals List (KECI)	Not listed
Australian Inventory of Chemical Substances (AICS)	Not listed

US information

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

2-(Cyanomethyl)pyridine is not listed

SARA 302/304 : 2-(Cyanomethyl)pyridine is not listed

SARA 311/312 : See section 2 for more information

California Prop. 65: 2-(Cyanomethyl)pyridine is not listed

CAA (Clean Air Act): 2-(Cyanomethyl)pyridine is not listed

CWA (Clean Water Act): 2-(Cyanomethyl)pyridine is not listed

EU Information

WGK classification: Water endangering class = 3 (self classification)

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: 2-(Cyanomethyl)pyridine is not listed

15.2. Chemical safety assessment

- A chemical safety assessment / report (CSA / CSR) has not been conducted.

SECTION 16: OTHER INFORMATION

(a) Compilation information of safety data sheet

Chemical: 2-(Cyanomethyl)pyridine.

CAS #: 2739-97-1

File Name: 0537Gj Clp11 Div.3 sds 2-(Cyanomethyl)pyridine

Revision Number: 11

Date of Issue of SDS: February 26, 2024

Revision Due Date: January, 2027

(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.



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- 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.
- 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



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Internet

- RTECS
- ESIS

(d) List of Hazard statements

Hazards Statements	
	<ul style="list-style-type: none">• 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)