



4-Aminopyridine

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Date of Compilation	:	November 29, 2011
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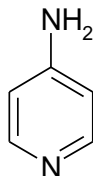
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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING.

1.1. Product identifier

PRODUCT NAME	: 4-Aminopyridine
CAS RN	: 504-24-5
EC#	: 207-987-9
SYNONYMS	: γ -pyridylamine; Gamma-aminopyridine; m-aminopyridine; amino-4-pyridine
SYSTEMATIC NAME	: 4-Aminopyridine, 4-Pyridinamine, 4-Pyridylamine, Pyridine
MOLECULAR FORMULA	: C ₅ H ₆ N ₂
STRUCTURAL FORMULA	:



1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

4-Aminopyridine is used as an Intermediate, Bird Repellent avicide and in Medication.

Uses advised against: None

1.3. Details of the supplier of the safety data sheet

Jubilant Ingrevia Limited

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.

T: +91-120-4361000 F: +91-120-4234881 / 84 / 85 / 87 / 95 / 96 E-mail: support@jubl.com - www.jubilantingrevia.com

1.4. Emergency telephone number

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: HAZARD(S) IDENTIFICATION.

2.1. Classification of the substance or mixture

GHS-US classification

Acute Toxicity Oral (Category 2)	H300 -	Fatal if swallowed.
Acute Toxicity Dermal (Category 3)	H311 -	Toxic in contact with skin
Acute Toxicity Inhalation (Category 3)	H331 -	Toxic if inhaled
Skin irritation (Category 1)	H314 -	Causes severe skin burns and eye damage.
Eye irritation (Category 1)	H318 -	Causes serious eye damage.
Specific target organ toxicity	H335 -	May cause respiratory irritation.
- single exposure (Category 3)		
Hazardous to the aquatic environment (long-term)	H411 -	Toxic to aquatic life with long lasting effects.
(Category 2)		

2.2. Label elements

Hazard Pictograms:

GHS 06, GHS 05, GHS09



Signal word: Danger!

Hazard and precautionary statements:



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Hazard Statements

- H300: Fatal if swallowed.
- H311 + H331: Toxic in contact with skin or if inhaled.
- H314 : Causes severe skin burns and eye damage
- H335: May cause respiratory irritation.
- H411: Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

- P260: Do not breathe dusts or mists.
- P264: Wash hands thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or Shower]
- P302+352: IF ON SKIN: Wash with plenty of soap and water.
- P363: Wash contaminated clothing 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+P313: If eye irritation persists: Get medical advice attention
- 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.
- P391: Collect spillage.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P405: Store locked up.
- 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.

Chemical	CAS #	EINECS No.	Purity	GHS Classification
4-Aminopyridine	504-24-5	207-987-9	≥99%	Acute Toxicity Oral (Category 2) Skin irritation (Category 2) Eye irritation (Category 2) STOT SE (Category 3) Hazardous to the aquatic environment (long-term) (Category 2)

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures.

General advice

First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Immediately call in physician. If breathing stops: immediately apply artificial respiration, if necessary also oxygen.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

If swallowed: give water to drink (two glasses at most). Seek medical advice immediately. In exceptional cases only, if medical care is not available within one hour, induce vomiting (only in persons who are wide awake and fully conscious), administer activated charcoal (20 - 40 g in a 10% slurry) and consult a doctor as quickly as possible. Do not attempt to neutralise.

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

Acute effects



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- 4-Aminopyridine can affect when breathed in and by passing through your skin. Contact can irritate the eyes, nose and throat. Exposure can cause headache, dizziness, heaviness and weakness of the arms and legs.

Chronic effects:

- To the best of our knowledge prolonged health effects of this products have not been fully investigated.

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

- Treat Symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point: 158°C closed cup

Non Flammable Material

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 vapors. Water jets may be used to flush spills away and dilute the same to non-flammable mixtures.

5.2. Special hazards arising from the substance or mixture

Vapors may flow long distances to distant ignition sources and flash back. Forms explosive mixtures in air on intense heating. Emits toxic fumes under fire conditions. Toxic vapors may be released upon thermal decomposition Carbon oxides, Nitrogen oxides (NOx), Combustible.

Vapors are heavier than air and may spread along floors.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3. Advice for firefighters

- Fire fighters must wear Self Contained Breathing Apparatus (SCBA) and full protective clothing.
- 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.
- Do not get water inside the containers.
- Report any run-off of fire waters 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.

Minor Spills

- Clean up all spills immediately following relevant Standard Operating Procedures.
- Avoid breathing vapors and contact with skin and eyes.
- Shut off leak source if possible.
- Wear protective clothing, boots, impervious gloves and safety glasses.
- Wipe up.
- Decontaminate all equipment.
- Use non-sparking tools.

Major Spill

- Alert Emergency Responders and tell them location and nature of hazard.
- Shut off all possible sources of ignition and increase ventilation.
- Wear protective clothing, full boots, impervious gloves, safety glasses and Self Contained Breathing Apparatus (SCBA), as may be deemed appropriate.
- Clear area of personnel and move upwind.
- Stop leaks if possible.
- 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.
- Clean up all tools and equipment.
- Inform authorities in event of contamination of any public sewers, drains or water bodies.

6.2. Environmental precautions.

- Clean up all spills immediately following relevant Standard Operating Procedures.



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- 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.

- Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions
- (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area.
- Avoid generation of dusts.

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.
- Work under hood. Do not inhale substance/mixture.

7.2. Conditions for safe storage, including any incompatibilities

- Store in lock up.
- Store at room temperature in a well-ventilated place.
- Store away from incompatible materials.
- Keep only in original container.
- Keep securely closed when not in use.

7.3. Specific end use(s)

- 4-Aminopyridine is used as an Intermediate, Bird Repellent avicide and in Medication.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters:

8.1.1. Exposure Limits Values

OSHA Vacated PELs: 4-Aminopyridine: 0.5 ppm TWA; 2 mg/m³ TWA.

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.

Hand protection:

In full contact:

Glove Material:	nitrile rubber
Layer Thickness:	0.11 mm
Breakthrough time:	> 480 Min



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In splash contact:

Glove Material: nitrile rubber
Layer Thickness: 0.11 mm
Breakthrough time: > 480 Min

Clothing:

- Avoid skin contact with 4-Aminopyridine. Wear protective gloves and clothing. Safety equipment suppliers/manufacturers can provide recommendations on the most protective glove/clothing material for your operation.
- All protective clothing (suits, gloves, footwear, headgear) should be clean, available each day and put on before work.

Eye Protection:

- Wear impact resistance eye protection with side shields or goggles.
- Wear a face shield along with goggles when working with corrosive, highly irritating or toxic substances.

Respiratory Protection

Improper use of respirator is dangerous. Such equipment should only be used if the employer has a written program that takes into account workplace conditions, requirement for worker training; respirator fit testing and medical exams, as described in OSHA 1910.134

- Where the potential exists for exposure over 0.5ppm use a MSHA/NIOSH approved supplied air-respirator with a full-face piece operated in a pressure demand or other positive-pressure mode.
- Exposure to 5ppm is immediately dangerous to life and health. If the possibility of exposure above 5ppm exists, use a MSHA/NIOSH approved self-contained breathing apparatus with a full-face piece operated in a pressure demand or other positive-pressure mode.

8.2.3. General Industrial hygiene:

- Wash hands and face after working with substance.
- Immediately change contaminated clothing.
- Apply skin protective barrier cream.
- Under no circumstances eat or drink at workplace.
- Work under hood.
- Do not inhale substance.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties.

Sr.No.	Parameter	Typical value
1	Appearance	White leaflets or large colorless crystals
2	Odor	No Characteristic odor
3	Odor Threshold	Not available
4	Melting point	158.5 °C
5	Boiling point	273°C
6	Flash point	158-164 °C
7	Evaporation rate (n-BuAc=1)	Not available
8	Explosive limits	Not available
9	Vapor pressure	0.80 mm Hg at 25 °C
10	Vapor density (air=1)	Not available
11	Specific gravity (water=1)	1.065 @20° C
12	Solubility	Soluble in water (83g/l), ethyl ether, benzene; very soluble in ethanol.
13	pH (1% Solution)	13
14	Log Kow (octanol/water)	-0,76 - Bioaccumulation is not expected.
15	Auto-ignition temperature	640°C
16	Decomposition temperature	Not available
17	Viscosity	Not available



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18	Oxidizer	No
19	Corrosive material	No
20	Explosive material	No

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

- No information known.

10.2. Chemical stability

- Stable at normal condition of temperature and Pressure. Oxidizes and darkens with time. Heat and light accelerate this process.

10.3. Possibility of hazardous reactions

- Hazardous Polymerization: Not reported.
- Violent reactions possible with: Oxidizing agents, acid halides, Acid anhydrides, acids

10.4. Conditions to avoid

- Strong heating, Dust Generation.

10.5. Incompatible materials

- Strong oxidizing agents, Various plastics

10.6. Hazardous decomposition products

- Thermal decomposition may produce Cyanide, nitrogen oxides and carbon monoxide.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD50/LC 50

Source: - RTECS#: US1750000

ACUTE ORAL LD50 (Mouse)	= 20 mg /kg
ACUTE ORAL LD50 (Bird)	= 10 mg /kg
INTRAPERITONEAL (Mouse)	= 10 mg/kg
INTRAVENOUS LD50 (Mouse)	= 7 mg/kg
LDLo - Oral Human – (Man)	= 590 ug/kg
LC50 Inhalation - Rat - 4 h	= 0,53 mg/l - dust/mist
LD50 Dermal – Rabbit	= 327 mg/kg

The following acute health effects may occur immediately or shortly after exposure to 4-Aminopyridine:

- Contact can irritate the eyes, nose and throat.
- Exposure can cause headache, dizziness, heaviness and weakness of the arms and legs. Continued exposure may progress to convulsions and death.
- It is Fatal if swallowed, Toxic in contact with skin and if inhaled. It causes damage to skin, eyes and causes irritation to respiratory system.
- 4-Aminopyridine Blocks Potassium Channels And Thereby Increases Acetylcholine, & Possibly Noradrenaline, Release At Nerve Terminals

Skin Corrosion/ Irritation : Skin - reconstructed human epidermis (RhE)
Result: Causes burns.

Serious Eye Damage/Irritation : Eyes - In vitro study
Result: Irreversible effects on the eye - 6 h

Respiratory or Skin Sensitization : Not available..

Germ Cell Mutagenicity : Test Type: Ames test
Test system: S. typhimurium



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Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Carcinogenicity	: Not listed by NTP, IARC and OSHA. Not present on the EU CMR list. According to information presently available 4-Aminopyridine is not found to be carcinogenic.
Reproductive Toxicity	: Not available.
Stot-Single Exposure	: May cause respiratory irritation
Stot- Repeated Exposure	: Chronic exposure to 4-aminopyridine can cause the breakdown of proper liver and brain functioning. No effects were found in the blood and urine of rats.
Aspiration hazard	: Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Ecotoxicity:

- Toxicity to fish semi-static test LC50 - *Oryzias latipes* - 3,43 mg/l - 96 h (OECD Test Guideline 203)
- Toxicity to daphnia and other aquatic invertebrates-static test EC50 - *Daphnia magna* (Water flea) - 14,5 mg/l - 48 h (OECD Test Guideline 202)
- Toxicity to algae ErC50 - *Pseudokirchneriella subcapitata* - 30 mg/l - 72 h (OECD Test Guideline 201)

12.2. Persistence and degradability

4-Aminopyridine (504-24-5)

Degradation	not readily biodegradable
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- It is persistent in the environment and is non-biodegradable.

12.3. Bioaccumulative potential

4-Aminopyridine (504-24-5)

Log Kow	-0,76 - Bioaccumulation is not expected.
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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

4-Aminopyridine (504-24-5)

Log Koc	1.65 (estimated). Low Sorption.
Henry's Law Constant	$2.45 \times 10^{-09} \text{ atm} \cdot \text{m}^3/\text{mole}$. It is non-volatile from aqueous bodies.
Log Kow	-0,76 - Bioaccumulation is not expected.

The product is water soluble, and may spread in water systems Will likely be mobile in the environment due to its water solubility. Highly mobile in soils

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

SECTION 13: DISPOSAL CONSIDERATIONS



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Waste disposal recommendations

- 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.

S.No	Agency	UN Number	Proper Shipping name	Hazard Class	Packing Group
Land transport	DOT	2671	AMINOPYRIDINES (o-, m-, p-)	6.1	II
Maritime Transport	IMDG	2671	AMINOPYRIDINES (o-, m-, p-)	6.1	II
Air Transport	IATA	2671	Aminopyridines (o-, m-, p-)	6.1	II
Hazard Label		Toxic			

Environmental hazards

- This substance is not reported as a marine pollutant.

SECTION 15: REGULATORY INFORMATION

- European Union Information

Classification as per CLP Regulation 1272/2008:

- **Hazards Class and Category:** *Acute Tox.Oral cat 2;; Acute Tox.Dermall cat 3, Acute Tox.Inhalation cat 3, Skin irrt Cat.1; Eye irri. Cat 1, STOT SE Cat. 3, Hazardous to the aquatic environment (long-term) Cat 2*
- **Hazard Statements:** *H300;H311, H331 H314, H318, H335, H411*

Chemical Inventory Lists:	Status
TSCA:	Listed
EC/ List No.	207-987-9
Canada(DSL/NDSL):	Listed (DSL)
Korea:	Listed (KECI)
Australia:	Listed (AICS)
Taiwan	Listed (TCSI)
New Zealand	Listed (NZIoC)
Philippines	Listed (PICCS)
China	Listed in IECSC and Catalog of Hazardous Chemicals (2015)

US information

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

Hazardous substance RQs: 4-Aminopyridine: 1000 lb final RQ; 454 kg final RQ

SARA 302 : Extremely Hazardous Substances and TPQs: 500 lb lower TPQ, 10000 lb upper TPQ

SARA 304: Extremely Hazardous Substances RQs: 1000lb



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SARA 311/312 : See section 2 for more information

California Prop. 65: 4-Aminopyridine not listed

CAA (Clean Air Act): 4-Aminopyridine not listed

CWA (Clean Water Act): 4-Aminopyridine not listed

EU Information

Water hazard class (WGK): Water endangering class: WGK 3 (Self classification)

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006: 4-Aminopyridine not listed

SECTION 16: OTHER INFORMATION

(a) Compilation information of safety data sheet

Date of compilation	: November 29, 2011
Chemical	: 4-Aminopyridine
CAS #	: 504-24-5
File Name	: 0078Gj Ghs12 Div.3 sds 4-Aminopyridine
Revision Number	: 12
Date of revision of SDS	: February 22, 2024
Revision Due Date	: January, 2027
Supersedes date	: January 02, 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
- 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
- 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 Harmonized System
- ADR : Accord European relative au transport international de marchandises
- IMDG-Code : International Maritime Code for Dangerous Goods
- 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

- Globally Harmonized System of Classification and Labelling of Chemicals.
- CLP REG (regulation) (EC) no. 1272/2008, last modification by regulation (EC) no. 2020/878.
- RTECS

SDS US (GHS HazCom 2012)



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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

(End of Safety Data Sheet)
