

MATERIAL SAFETY DATA SHEET

Version 2.0

Revision Date: 04/08/2020

1. CHEMICAL PRODUCT & COMPANY INFORMATION

Product name	1H-imidazole
other names	IMD
Company Information:	Green Chemicals Co., Ltd
location:	No.6, DingLan Road, AoYang Industrial Park, FuNing,YanCheng, P.R.China
Phone Number:	+86-515-87883661
Email:	market@greenchem-china.com
Website:	www.greenchem-china.com/
Use:	For industrial use only

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Acute toxicity - Oral, Category 4

Skin irritation, Category 1C

Serious eye damage, Category 1

Reproductive toxicity, Category 1B

2.2 GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H360 May damage fertility or the unborn child

Precautionary statement(s)

Prevention:

P264 Wash ... thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P260 Do not breathe dust/fume/gas/mist/vapour/spray.



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P280 Wear protective gloves/protective clothing/eye protection/face protection.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

Response :

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/...if you feel unwell.

P330 Rinse mouth.

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].

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER/doctor/...

P321 Specific treatment (see ... on this label).

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/ attention.

Storage :

P405 Store locked up.

Disposal :

P501 Dispose of contents/container to ...

2.3 Other hazards which do not result in classification

none

3. Composition/information on ingredients

3.1 Substances

Chemical name	Common names and synonyms	CAS Number	EC Number	Concentration
1H-imidazole	1H-imidazole	288-32-4	none	100%

4. First-aid measures

4.1 Description of necessary first-aid measures :

General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled:

Fresh air, rest. Refer for medical attention.

In case of skin contact:

Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer immediately for medical attention.



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In case of eye contact:

Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention.

If swallowed:

Rinse mouth. Rest. Do NOT induce vomiting. Give one or two glasses of water to drink. Refer immediately for medical attention.

4.2 Most important symptoms/effects, acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, foam, powder, carbon dioxide.

5.2 Specific hazards arising from the chemical no data available

5.3 Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Personal protection: complete protective clothing including self-contained breathing apparatus. Sweep spilled substance into covered containers. Then wash away with plenty of water.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Separated from strong acids and food and feedstuffs.



8. Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure limit values:

no data available

Biological limit values:

no data available

8.2 Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards

no data available

9. Physical and chemical properties

Physical state	white to yellow crystals or powder,with an amine odour
Colour	no data available
Odour	no data available
Melting point/ freezing point	59°C(lit.)
Boiling point or initial boiling point and boiling range	256 °C(lit.)
Flammability	Combustible. Gives off irritating or toxic fumes (or gases) in a fire.
Lower and upper explosion limit/ flammability limit	no data available
Flash point	145°C
Auto-ignition temperature	480°C



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Decomposition temperature	no data available
pH	no data available
Kinematic temperature	2.617 mm ² /s at 100°C
Solubility	In water: 633 g/L (20 °C)
Partition coefficient n-octanol/water (log value)	-0.08
Vapour pressure	<1 mm Hg (20 °C)
Density and/or relative density	1.01g/m lat 20°C
Relative vapour density	(air = 1): 2.35
Particle characteristics	no data available

10. Stability and reactivity

10.1 Reactivity	no data available
10.2 Chemical stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	Dust explosion possible if in powder or granular form, mixed with air.
10.4 Conditions to avoid	no data available
10.5 Incompatible materials	no data available
10.6 Hazardous decomposition products	no data available

11. Toxicological information

11.1 Acute toxicity	
Oral:	no data available
Inhalation:	no data available
Dermal:	no data available
11.2 Skin corrosion/irritation	no data available
11.3 Serious eye damage/irritation	no data available
11.4 Respiratory or skin sensitization	no data available
11.5 Germ cell mutagenicity	no data available
11.6 Carcinogenicity	no data available
11.7 Reproductive toxicity	no data available
11.8 STOT-single exposure	no data available
11.9 STOT-repeated exposure	no data available
11.10 Aspiration hazard	no data available

12. Ecological information

12.1 Toxicity



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Toxicity to fish:	no data available
Toxicity to daphnia and other aquatic invertebrates:	no data available
Toxicity to algae:	no data available
Toxicity to microorganisms:	no data available
12.2 Persistence and degradability	no data available
12.3 Bioaccumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Other adverse effects	no data available

13. Disposal considerations

13.1 Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14. Transport information

14.1 UN Number

ADR/RID:	UN3263
IMDG:	UN3263
IATA:	UN3263

14.2 UN Proper Shipping Name

ADR/RID:	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
IMDG:	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.
IATA:	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

14.3 Transport hazard class(es)

ADR/RID:	8
IMDG:	8
IATA:	8

14.4 Packing group, if applicable

ADR/RID:	III
IMDG:	III
IATA:	III

14.5 Environmental hazards



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ADR/RID: no
IMDG: no
IATA: no
14.6 Special precautions for user no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
no data available

15. Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS Number	EC Number
1H-imidazole	1H-imidazole	288-32-4	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Listed.
Vietnam National Chemical Inventory			Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Listed.

16. OTHER INFORMATION

Disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Yancheng Green Chemicals Co.,Ltd shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.