

**HANDAN HUIDA CHEMICAL CO.,LTD.****MATERIAL SAFETY DATA SHEET****SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME	2-Methylquinoline(Quinaldine)
MANUFACTURER	
Company Name	HANDAN HUIDA CHEMICAL CO.,LTD.
Address	NO.10 FUXIN STREET,COAL CHEMICAL INDUSTRIAL GATHERING PARK OF CI COUNTY,HEBEI 056500,CHINA
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**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

CHEMICAL NAME	Quinaldine
SYNONYM	2-Methylquinoline
INGREDIENTS	87%
CHEMICAL FORMULA	C10H9N(molecular weight 143)
CAS No.	91-65-4
TSCA	reg
EINECS	2020851
GAZETTE NOTICE No.(ENCS)	(5)-795

**SECTION 3: HAZARDS IDENTIFICATION**

**HAZARD:** Flammable liquid when heated

**HAZARD CLASSIFICATION:** Other hazardous substance

**TOXICITY:**

Inhalation of its vapor in large quantities causes toxic effect.

Contact with eyes and skin causes irritation with pain ,however ,it does not cause

chronic

Symptom and reaction.

**SECTION 4:FIRST AID MEASURES**

In any ease described below ,give first aid measures immediately and seek medical advice without Fail.

**EYE CONTACT:**

Flash eyes with clean water for at least 15 minutes and seek medical advice of the oculist immediately, if pain still remains.

Open the eyelids by fingers so as to allow water to reach completely around eyelids and eyeballs on flushing.

**SKIN CONTACT:**

Take off the contaminated clothing and shoes immediately.

Wash the contaminated skin site with soap thoroughly after washing it with the running water or lukewarm water.

**INHALATION:**

Transfer the victim to a fresh air place immediately. Loosen the clothing of the victim so as to insure the airway and then give artificial respiration if not breathing or poor breathing.

Keep the victim's body warm with a blanket etc, and keep quiet.

Get a medical treatment without fail.

**IF SWALLOWED:**

Wash the victim's mouth thoroughly out with water.

Give some cups of water and then induce vomiting by inserting fingers into throat if possible.

Get a medical treatment immediately.

Give nothing orally to an unconscious victim.

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**SECTION 5: FIRE FIGHTING MEASURES**

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**FIRE-EXTINGUISH MEASURES;**

Use powder, carbon dioxide extinguisher or dry sand in an early stage of fire.

It is useful to eat off air using foam extinguish agent and others in large scale of fire.

For fire in surroundings, splash water on equipments in the surrounding area and cool down.

Transfer movable containers promptly to a safety place.

Wear protectors for a fire-fighting work without fail.

Forbid an entrance of any persons except persons concerned into the field on fire.

Large volume of black smoke is generated on combustion.

Generated gas contains toxic monoxide gas, nitrogen oxide and other gases,

**FIRE-EXTINGUISH AGENT;**

Powder carbon dioxide, foam, and dry sand.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**PRECAUTIONS FOR HUMAN;**

Allow people down to escape.

Forbid an entrance of any persons except persons concerned in the area of the release or spill by roping off and so on.

Keep away igniting sources in the surroundings immediately and get ready for fire-fighting equipments.

Wear protectors for a work without fail and don't work under the lee.

**PROCEDURES OF RECOVERY;**

In case of the leakage in small quantities absorb the leaked liquid with earth and sand, and recover it into tightly closable empty containers. In that case, use a sparkles safety shovel. In case of the leakage in large quantities, stem a steam of the leaked liquid with earth and sand, and recover it into tightly closable empty containers after covering the surface of the liquid with foam. And then wash thoroughly out with large volume of the surface of the liquid with foam. And then wash thoroughly out with large volume of water. It is better to use dispersing agents such as a neutral cleaning on washing. Take care not to discharge any high concentrated waste liquid to a river.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING**

Take care of the effect of odor to the surroundings, because tar base such as quinaldine has special unpleasant odor.  
Forbid strictly the use of fire around the handling site.  
Especially, take care of ignition sources such as static electricity or impact sparks on handling of the heated substance.  
Avoid the leakage of liquid and evaporation of vapor as small as possible.  
Equip with local exhaust ventilation at the area where vapor may generate.  
Wear protective goggles and gloves (oil resistant) without fail.  
Wear other protectors for the possible contact or inhalation.  
Wash hands, face and body thoroughly after handling.

**STORAGE;**

Keep in a cool and dark, well-ventilated place. Keep away from ignition sources and high temperature substances.  
Don't store together with incompatible substances such as oxidizing substances.

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**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

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**CONCENTRATION CONTROL ;** Not established

**ALLOWABLE CONCENTRATION;**

Recommended value by Japan Industrial and Hygienic Society ; Not established  
Recommended value by ACGIH ; Not established

**FACILITY MEASURE;**

On handling, use tightly closed device, equipment and local ventilation.  
Provide the eye washing equipment and shower facilities for an emergency use near handling place.

**PROTECTOR;**

Wear suitable protectors among a gas protection mask (for organic gas), the air-supplied respirator or self-contained breathing apparatus for high concentration, goggles or a protection mask, oil resistant (impervious) protective gloves, boots and apron according to working conditions.



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**SECTION 9: PHYSICAL & CHEMICAL PROPERTIES**

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APPEARANCE;	Colorless or yellow brown liquid.
ODOR;	Slight pyridine odor
DENSITY;	1.06
BOILING POINT;	248°C
FREEZING POINT;	-2°C
VAPOR DENSITY;	4.9(air=1)
(IGNITION POINT:2);	84°C
RANGE OF EXPLOSION IN ATMOSPHERE;	Upper limit       -% Lower limit       -%
SOLUBILITY;	Water insoluble Soluble in organic solvent such as chloroform and ether

Octanol / Water partition coefficient; log Pow 3.864

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**SECTION 10: STABILITY & REACTIVITY**

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**STABILITY;**

Stable under the normal handling conditions.

**REACTIVITY;**

Contact with oxidizing substances may induce reaction.

Generated gas on decomposition by heating contains nitrogen oxide.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**HUMAN HEALTH EFFECT;****IRRITATION;**

Contact of liquid or vapor with skin and mucous membrane is associated with irritation.

**ACCUTE TOXICITY; 1)**

Rat: Oral LD50 1,230 mg/kg

Rabbit Skin LD50 1870  $\mu$ L/kg



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**SECTION 12: ECOLOGICAL INFORMATION**

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It may cause environmental effects. Especially take care of the effects on fish.

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**SECTION 13: DISPOSAL CONSIDERATION**

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Dispose by means of incineration in accordance with the following procedures.

In case of small quantities, absorb the material with diatomaceous earth and burn gradually in an open type incinerator.

Burn it by spraying into the fire chamber of an incinerator.

Take care severely not to discharge any waste liquid into sewage or a river.

Other general caution shall be subject to the description in SECTION 7 "HANDLING AND STORAGE"

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**SECTION 14: TRANSPORT INFORMATION**

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UN HAZARD CLASS; Not applicable

UN No. ; Not applicable

Avoid cruel handling like topping over, dropping , giving physical shock, or lugging the container.  
Other general caution shall be subject to the description in SECTION 7 "HANDLING AND STORAGE"

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**SECTION 15: REGULATORY INFORMATION**

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Our company is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

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**SECTION 16: OTHER INFORMATION**

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**REFERENCE**

1) U.N. NLM(2009) ChemIDplus

2) Canadian Centre for Occupational Health and Safety

The information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge currently available literature and information.

Precautions, notes and other information are applicable in handling under normal conditions.

Further safety measures which are suitable for intended use are required in handling under extraordinary conditions.



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