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正本/ORIGIN

编号: TCH25005075 No: TCH25005075 日期: 2025-03-03 Date: 2025-03-03

ZAIQ-RF(HH)-01-19

# Safety Data Sheet

扫描杳看在线报告



Applicant name: Zhejiang Jinhua New Material Co., Ltd.

**Product name: Hydroxylamine 50% Solution** 

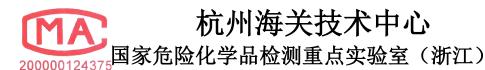
Date of issue: 2025-03-03

Edit institution: Technology Conter of Hangzhou Customs District

Approver

Note: 1. Unless other wise stated, this test report is only responsible for the sample(s).

2. This test report can not be reproduced, except in full, without prior written permission of the lab.





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# 声明

# **DECLARATION**

1.本报告中检测结果仅对样品负责。

The result in this test report is only valid for the tested samples.

2.本报告无授权人签字、未加盖本机构报告专用章无效。

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测)。复测以原样为准,复测维持原结论时,由申请方承担复测费。

If there is any dissidence to the test data, the entrusting party shall apply for retesting within 15 days upon receiving this report (Some special item can not be retested). The former tested samples will be used as the retested ones. If the retest results are the same as the former ones, the retest fee will be paid by the entrusting party.

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This report shall be used in integrity. This organization will not be responsible for any misleading caused by the content of this report.

Prevention

	1. Identification of substance
Product Name	Hydroxylamine 50% Solution
Other Name	None
Chemical Name	None
Recommended Use	Used as a reducing agent in organic synthesis.
Manufacturer	Zhejiang Jinhua New Material Co., Ltd.
Address	A-25-5 High-Tech Industrial Park Sino-Russian Zone, Quzhou,
	Zhejiang, China / 324004
Phone Number	None
Fax Number	None
WEB or E-mail	None
Emergency Phone	Call your nearest poison control centre
Number	
	2. Hazards identification
GHS classification	Corrosive to metals 1
	Acute toxicity-oral 4
	Acute toxicity-dermal 4
	Skin corrosion/irritation 2
	Serious eye damage/eye irritation 1
	Sensitisation-skin 1
	Carcinogenicity 2
	Specific target organ toxicity, single exposure 3
	Specific target organ toxicity, repeated exposure 2
GHS Pictograms	Hazardous to the aquatic environment, acute hazard 1
GIIS PICLOGIAITIS	
Signal words	Danger
Hazard statements	H290:May be corrosive to metals
	H302:Harmful if swallowed
	H312:Harmful in contact with skin
	H315:Causes skin irritation
	H318:Causes serious eye damage
	H317:May cause an allergic skin reaction
	H351:Suspected of causing cancer
	H335:May cause respiratory irritation
	H373:May cause damage to organs through prolonged or
	repeated exposure
	H400:Very toxic to aquatic life
Precautionary Statement	P203:Obtain, read and follow all safety instructions before use.
Provention	D224-Koon only in original packaging

P234: Keep only in original packaging.

**√ Mixtures** 

**Component Information** 

Precautionary Statement Response	P260:Do not breathe dust/fume/gas/mist/vapours/spray. P261:Avoid breathing dust/fume/gas/mist/vapours/spray. P264:Wash hands [and···] thoroughly after handing. P264+P265:Wash hands [and···] thoroughly after handing. Do not touch eyes. P270:Do not eat, drink or smoke when using this product. P271:Use only outdoors or with adequate ventilation. P272:Contaminated work clothing should not be allowed out of the work place. P273:Avoid release to the environment. P280:Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/··· P301+P317:IF SWALLOWED: Get medical help. P302+P352:IF ON SKIN: Wash with plenty of water/··· P304+P340:IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P354+P338:IF IN EYES:Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P317:Get medical help. P318:IF exposed or concerned: Get medical advice. P319:Get medical help if you feel unwell. P321:Specific treatment (see the supplemental first aid instruction). P330:Rinse mouth. P332+P317:If skin irritation occurs:Get medical help. P333+P317:If skin irritation or rash occurs: Get medical help. P362+P364:Take off contaminated clothing and wash it before reuse. P390:Absorb spillage to prevent material damage.
Precautionary Statement Storage	P391:Collect spillage. P403+P233:Store in a well-ventilated place. Keep container tightly closed. P405:Store locked up. P406:Store in corrosive resistant/····container with a resistant inner liner.
Precautionary Statement Disposal Other hazards which do not result in classification	P501:Dispose of contents/container in according with local regulation.  Not available.
	Composition/information on ingredients
□Substances	

Component	CAS number	EINECS number	Macc(0/swt)
Component Hydroxylamine	7803-49-8	232-259-2	<b>Mass(%wt)</b> 50
Water	7803-49-8 232-259-2 50 7732-18-5 231-791-2 50		
Note:1. Unless a component p			
the concentration is less than		d, it does not need to be co	Jisidered iii tile 3D3 ii
the concentration is less than	4.First-aid r	measures	
		s of breath, give oxygen	. Keen victim warm.
NOTE TO PHYSICIAN	Keep victim under		r reep vicein warm
After inhalation	•	Oxygen or artificial respir	ation if needed. Get
	immediate medical		
After skin contact	Immediately flush	skin with plenty of w	vater. Remove and
	isolate contaminate	ed clothing and shoes. I	If irritation persists,
	•	tion immediately. For r	·
	•	naterial on unaffected s	skin. Wash clothing
	separately before r		
After eye contact		eyes with plenty of wa	
		dequate flushing of the gers. Get medical atten	, , , , ,
After ingestion	•	ot induce vomiting withou	•
Arter ingestion		iturally, have victim lear	
	_	oosen tight clothing such	
	•	not use mouth-to-mout	
	ingested the substa	ance. Seek immediate m	nedical attention.
Most important	Harmful if swallowe	ed. Harmful in contact wi	th skin. Causes skin
symptoms/effects, acute		serious eye damage. Ma	
and delayed		spected of causing c	•
	•	on. May cause damage	to organs through
	prolonged or repea	•	
Cuitable systimaviables	5. Fire-fighting		au alaahal yasistant
Suitable extinguishing agents	foam, carbon dioxi	spray, chemical foam	or alcohol-resistant
Special hazards caused	•	decomposes violently,	nosing a risk of
by the material, its		oning. This substance is	•
products of combustion		ts, metals such as zinc p	
or flue gases	• •	sulfate, and phosphorus	· · · · · · · · · · · · · · · · · · ·
		kplosion. Etching metals	
	copper, tin, and zir	_	
	Can be released in	case of fire:	
	_	nmonia, nitrogen, carbo	
1	•	nd toxic fumes and gase	
Protective equipment for	•	e clothing, including hel	•
fire-fighters	·	or pressure demand br	eathing apparatus,
	protective clothing	and race mask.	

6. Accidental release measures

Hydroxylamine 50% Solution	According to GHS rev 10
Person-related safety precautions	Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away.
Measures for environmental protection	Prevent further leakage or spillage if safe to do so. Do not allow material to be released to the environment without proper governmental permits.
Measures for cleaning/collecting	Contain spillage, and then collect with non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and place in suitable container. Do not get water inside containers. Clean contaminated surface thoroughly. Massive leakage: build embankments or dig pits to contain them. Spray water mist to reduce evaporation and transfer to a tanker or professional collector with an explosion-proof pump.
Additional information	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.
	7. Handling and storage
Handling	
Information for safe	Operate in a fume hood.
handling	Prevent the formation of aerosols.  Avoid contact with skin, eyes, mucous membranes and clothing.  In case of insufficient ventilation, wear suitable respiratory equipment.  Avoid breathing dust/fume/gas/mist/vapours/spray.  Wash hands thoroughly after work.  Do not eat, drink, or smoke when using this product.
Information about protection against explosions and fires	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting //equipment. Use non-sparking tools. Take action to prevent static discharges.

#### **STORAGE**

Requirements to be met by storerooms and

Keep in a cool, dry, well-ventilated place. Keep tightly closed until used.

Containers which are opened must be carefully resealed and containers

kept upright to prevent leakage.

Information about storage in one common Stay away from incompatible substances such as strong

oxidants, metals, metal oxides, etc.

. Auto-ignition temperature

storage facility Further information about					/ release
storage conditions	equipment and . Exposure cont				
Limit Values for Exposure	•	1013/ per 30116	al protection		
Component	CAS number	ACGIH TLV-TWA			NIOSH REL-STEL
Hydroxylamine Water	7803-49-8 7732-18-5	N.E. N.E.	N.E. N.E.	N.E. N.E.	N.E. N.E.
Appropriate engineering controls	Use adequate Facilities storir with an eyewa	ng or utilizin	ng this mater	rial should be	
General protective and hygienic measures	Do not get this material in contact with skin. Do not get this material on clothing. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.				
Personal protective equipment	Breathing equipment, hands protection, eyes and face protection, body protection.				
Breathing equipment	When workers appropriate ce	are facing	high concent	trations they	must use
Protection of hands Eye/Face protection	Wear appropri Use safety glamechanical ba	iate chemica sses with si	al resistant g de shields or	r safety gogg	les as
Body protection  Note: 1. N.E. not established	Full set of anti antistatic prote to the amount the work place	i chemical re ective clothin and concent	eagent overa ng, choose b	alls, flame re ody protection	on according
	9.Physical and	chemical p	roperties		
Physical state Colour Odour Melting point/freezing	Liquid Colorless No data availa 8 °C		•		
point Boiling point or initial boiling point and boiling range	100 ℃ (1013	hPa)			
Flammability Lower and upper explosion limit/ flammability limit	No data availa No data availa				
Flash point Auto-ignition temperature	>100 °C (Clos 215 °C	ed cup)			

Safety Data Sheet  Hydroxylamine 50% Solution	Page 6 of 9 According to GHS rev 10	
Decomposition	>50 ℃ to prevent thermal decomposition and avoid	
temperature	overheating. Do not allow evaporation to dry.	
pH	10.6 (concentration: 50%, 20 °C)	
Kinematic viscosity	No data available	
Solubility	Soluble in water, miscible in alcohols, ethers, ketones,	
Davititian as officiont.	hydrocarbons, etc.	
Partition coefficient:	No data available	
n-octanol/water (log		
value)	12 hPa (40 °C)	
Vapour pressure	12 hPa (40 $^{\circ}$ C) 1.03 g/cm <sup>3</sup> (concentration: 10%); 1.12 g/cm <sup>3</sup> (concentration:	
Density and/or relative density (water=1)	50%)	
Relative vapour density	No data available	
(air=1)	No data avallable	
Particle characteristics	Not applicable	
10. Stability and reactivity		
Reactivity	When heated, it decomposes violently, posing a risk of	
Redelivity	explosion and poisoning.	
Chemical stability	Stable under recommended storage conditions.	
Possibility of hazardous	Reacts rapidly with oxidants, metals such as zinc powder, some	
reactions	metal oxides, copper (II) sulfate, and phosphorus chlorides.	
	There is a risk of fire and explosion. Etching metals such as	
	aluminum, copper, tin, and zinc.	
Conditions to avoid (e.g.	Incompatible materials. Heat and flame and spark. The	
static discharge, shock or	extreme temperatures and direct sunlight. Static discharge.	
vibration)	, , , , , , , , , , , , , , , , , , ,	
Incompatible materials	Strong oxidants, metals, metal oxides, etc.	
Hazardous decomposition	May include nitrogen oxides, ammonia, nitrogen, carbon	
products	monoxide, carbon dioxide, irritating and toxic fumes and	
	gases.	
	11.Toxicological information	
Routes of Entry: Dermal co	ontact, eye contact, inhalation, ingestion.	
Acute Toxicity		
Hydroxylamine	LD50 (Oral, rat): 600 mg/kg-642 mg/kg	
(CAS 7803-49-8)	LC50 (Inhalation, rat): N/A	
	LD50 (Dermal, rabbit): 1500 mg/kg-2000 mg/kg	

LD50 (Dermal, rabbit): 1500 mg/kg-2000 mg/kg

Skin corrosion/Irritation Causes skin irritation.

Serious eye Causes serious eye damage.

damage/irritation

Respiratory or skin May cause an allergic skin reaction.

sensitization

Germ cell mutagenicity Not classified

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity Not classified

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure May cause damage to organs through prolonged or repeated

exposure. This substance may have an impact on the blood. May lead to the formation of methemoglobin and subsequent anemia. Tumors have been found in experimental animals, but

they may not be related to humans.

Aspiration hazard Not classified Chronic Effects Not classified Further Information No data

12. Ecological information

Ecotoxicity

Aquatic Toxicity Hydroxylamine (CAS 7803-49-8)

**Test & Species** 

96 Hr LC50 Fish: 7.2 mg/L

48 Hr EC50 Daphnia: 1.62 mg/L 72 Hr EC50 Algae: 0.72 mg/L

Persistence and

degradability

Not available

Bioaccumulative potential Not available Mobility in soil Not available

Additional Information Very toxic to aquatic life.

13. Disposal considerations

#### WASTE DISPOSAL INSTRUCTIONS

Contact a qualified professional waste disposal service to dispose of this

material.

Dispose of in accordance with local environmental regulations or local

authority requirements.

# 14. Transport information

The Recommendation of Transport of Dangerous Goods (TDG)

UN Number UN 3266

Proper Shipping Name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

(Hydroxylamine 50% Aqueous Solution)

Class/Division Class 8 Corrosive Substances

Package Group PG III
Subsidiary risk —

labelling pictogram



Maritime transport IMDG Being same with TDG

Marine pollutant (Yes/No): Yes

Air transport ICAO-TI and Being same with TDG

**IATA-DGR** 

# 15. Regulatory information

**European/International Regulations** 

**OSHA:** Hazardous by definition of Hazard Communication Standard

(29CFR 1910.1200).

**EINECS Status:** Hydroxylamine (CAS 7803-49-8) is included in EINECS

inventory.

**EPA TSCA Status:** Hydroxylamine (CAS 7803-49-8) is included in TSCA inventory.

**Canadian DSL/NDSL** Hydroxylamine (CAS 7803-49-8) is included in NDSL.

(Domestic Substances List/ Non-domestic Substances List):

**HMIS (Hazardous** Health: 3

Material Identification Flammability: 1

System Ratings): Physical hazard: 0

Personal protection: I

(4. Severe Hazard; 3. Serious Hazard; 2. Moderate Hazard; 1.

Slight Hazard; 0. Minimal Hazard)

**WHMIS (Canadian** D2A, E, F (Hydroxylamine)

Workplace Hazardous Material Identification

**System Ratings):** 

**GB 12268-2012 List of** This product is a dangerous goods on the GB 12268-2012 list of

**dangerous goods** dangerous goods.

# 16. other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

This Material Safety Data Sheet was based on the "Globally Harmonized System of Classification and Labelling of Chemicals", "Recommendations on the TRANSPORT OF DANGEROUS GOODS Model Regulations", "INTERNATIONAL MARITIME DANGEROUS GOODS CODE"," International Air Transport Association Dangerous Goods Regulations", the National Standards and other related dangerous chemicals management laws, regulations and standards, which are periodically updated and changed. To make dangerous goods / hazardous chemicals comply with the relevant requirements of the latest management, regularly update is recommended.

This Material Safety Data Sheet has been compiled in both English and Chinese. For any discrepancies, the Chinese version shall prevail.

Abbreviations and ADR: European Agreement concerning the International Carriage of

acronyms Dangerous Goods by Road

RID: Regulations Concerning the International Transport of

Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA-DGR: Dangerous Goods Regulations by the "International Air

Transport Association" (IATA)

ICAO-TI: Technical Instructions by the "International Civil Aviation

Organization" (ICAO)

EINECS: European Inventory of Existing Commercial Chemical

Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effective concentration, 50 percent

**Edit Date** 03.03.2025 **Update and Revise** Original edition

Edit Standard

Globally Harmonized System of Classification and Labelling of

Chemicals Part 1.5

Revised Institution Technology Center of Hangzhou Customs District