

Material Safety Data Sheet

N-Isopropylhydroxylamine (IPHA15%)

Revision date: 2021-06-01

SDS No. : XY 004-2021-06-01

Product name: N-isopropyl hydroxylamine

Version: version 4

Part 1 - Chemical Product and Company Identification

GHS product identifier: N-Isopropyl Hydroxyl Amine (IPHA)

Identification of the product: See section 3

Recommended use: Short-stopping agent, polymerization inhibitor, oxygen scavenger.

Recommended Restrictions: Not available

Details of the supplier of the safety data sheet:

Supplier(Manufacturer): Jiaxing Xiangyang Chemical Factory

Address: No.311,Bujiao Road,Daqiao Town,Nanhu District,Jiaxing,Zhejiang,China

Contact person(E-mail): Monica(monica@xiangyang-chem.com)

Telephone: +86-573-83102518

Fax: +86-573-83100412

Emergency number: +86-573-83102518

Part 2 - Hazards Identification

Risk categories: According to chemical classification, warning label and warning specification series standards (see part 15)Points), the product skin/irritation, class 1C, general chemicals 15% aqueous solution.

Exposure routes: inhalation, ingestion, skin absorption.

In Health hazards: eye, skin and mucous membrane irritation; Ingestion is harmful.

Environmental hazards: certain pollution to water bodies.

Danger of fire and explosion: no danger of explosion.

Hazard label: No information available.

Waste treatment: Dilution with large amounts of water or distillation for recovery.

Precautions: The container shall be sealed and stored in a cool and ventilated place; Keep away from fires, heat sources, oxidants and acids; Avoid inhalation or contact with the skin. When splashing into the eyes, please rinse with plenty of water and send to the hospital for treatment in time; Users should wear protective clothing, gloves and protective glasses in case of fire; Sand, foam, dry powder and carbon dioxide; Users shall transmit the information of this manual to users in the workplace and take necessary preventive measures.

Part 3 Composition, Information on Ingredients

Ingredient: Mixture

Chemical Name	CAS No.	EC No.	Concentration
N-Isopropylhydroxylamine	5080-22-8	225-791-1	≥15%
Water	7732-18-5	231-791-2	≤85%

Part 4 - First Aid Measures

Skin contact: Remove contaminated clothing and rinse thoroughly with clean water. At least 15 minutes. Seek medical attention.

Eye contact: open eyelids, flush with running water or normal saline, not less than 15 minutes, seek medical advice.

Inhalation: Go to a ventilated place to keep the respiratory tract clear and seek medical advice.

Ingestion: If ingested by accident, gargle, do not induce vomiting, drink proper amount of warm water and seek medical advice.

Part 5 - Fire protection measures

Danger: strong acid can cause a reaction. In case of high heat in an open fire.

Harmful combustion products: carbon monoxide, carbon dioxide.

Extinguishing method and extinguishing agent: dry powder, soluble foam, sand, carbon dioxide, mist water.

Precautions for fire fighting: No information available.

Part 6 - Emergency response to leaks

Should deal with urgently: if a lot of time, can be collected by dike, prevent to flow into sewer, gully and other restricted space, should be separated leave the contaminated area and set warning signs around it. If necessary, emergency workers should wear masks, goggles and work clothes. When it cannot be collected, flush with plenty of water for dilution, but dilute the flushing water should be treated by the waste water system.

Elimination formula: rinse or adsorb in a suitable container. If a large number of leaks, use the dike to collect flush in plastic containers or with plenty of water.

Appearance: Clear Liquid.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. The toxicological properties of this material have not been fully investigated.

Target Organs: No data found.

Part 7 Operational disposal and storage

Operational precautions: Keep the air clear at the work site, keep the extraction area of raw materials strictly prevent the occurrence of Mars, wear plastic or rubber gloves for personal protection.

Precautions for storage: The storage room should be ventilated, avoid direct sunlight and rain. Keep it separate from acid substances. Far from the fire, from the heat. Keep container sealed. The product should be stored in plastic container or plastic container, not packed in iron container.

Part 8 - Contact control and personal protection

Maximum permissible concentration: Workshop hygiene standard, Chinese MAC (mg/m³) there is no standard. American STEL (MG/M³) No data.

Monitoring method: the product is tested by chemical titration.

Process control system: open doors and Windows for ventilation when extracting raw materials in production, and control temperature changes during production.

Respiratory protection: Wear a respirator when extracting materials or when amine is high. And keep the place ventilated.

Hand protection: Wear plastic gloves or rubber gloves when working.

Eye protection: Wear safety goggles when extracting materials. Be sure not to splash into your eyes.

Skin and body protection: Wear protective clothing for general operations. Wear protective clothing against acid and alkali when necessary.

Other precautions: Pay attention to personal hygiene. After work, shower and change clothes, pay attention to maintain personal cleanliness and hygiene. Provide a good natural ventilation environment, no smoking, eating at the work site.

Part 9 - Physical and chemical properties

Appearance and properties: pure for clear transparent liquid, industrial products for light yellow transparent liquid, no mechanical miscellaneous quality, storage time will be extended, the color will become yellow.

Odour: Amine odour

PH: 10.6 ~ 11.5

Solution point/freezing point :(°C) -10°C

Boiling point, initial boiling point and boiling range: no data available

Flash point: > 72°C

Upper and lower limit of combustion: meaningless

Explosion limit: no explosion risk

Vapor pressure: no data available

Vapor density :(air =1) no data available

Relative density (water =1) : 1.0 (20°C)

Solubility: at room temperature, soluble in water, mixed in ethanol, acetone and other organic solvents.

N-octyl alcohol/water partition coefficient: no data available

Autogenous temperature: no data available

Dissociation temperature :(°C) no data available

Odor threshold: meaningless

Steaming speed: meaningless

Flammable material (solid, others) : Impregnated paper cannot ignite in atmospheric conditions

Other physical and chemical properties: Refraction 1.3570 (25°C)

Molecular formula : $(\text{CH}_3)_2\text{CHNH}(\text{OH})$

Relative molecular weight: 75.11 (according to (2005) INTERNATIONAL relative Atomic Weight)

Part 10 - Stability and reactivity

Stability: The substance is stable under normal storage and handling conditions.

Risk reaction: neutralization reaction to acidic substances, extremely high reaction to organic peroxides, color metal has decomposition, can react with ozone, nitrogen dioxide reaction.

Forbidden substances: avoid contact with strong acid, strong oxidant and iron.

Conditions to avoid contact: direct light, high temperature will accelerate the discoloration, contact with oxygen will accelerate the oxidation decomposition. Avoid free from open flame, the package should be sealed to reduce contact with air, not packed in iron drum

Convergence hazard: cannot occur.

Dissociation products: no data available.

Part 11 - Toxicological information

Acute toxicity: this product is non-toxic, LD50 has not been determined.

Skin irritation or corrosion: Slight irritation to the skin after direct contact, resulting in redness and swelling.

Eye irritation or corrosion: Eye burn or irritation

Respiratory or skin irritation: Amine irritation of the respiratory tract

Germ cell mutagenesis: no data available

Oncogenic: No data available

Reproductive toxicity: No data available

Systemic toxicity of specific target organs - one-time exposure: no data available

Specific target systemic toxicity -- repeated exposure: no data available

Inhalation hazard: Damage to the digestive organs

Part 12 - Ecological information

Biotoxicity: This product is non-toxic

Persistence and degradation: no data available

Potential bioaccumulation: no data available

Migration in soils: no data available

Other harmful USES: possible pollution of the water environment and source of water should be noted.

Part 13 - Waste disposal

Nature of waste: it is weakly alkaline liquid, and there is no list of national dangerous goods.

Waste disposal method: dissolve dilution disposal.

Disposal precautions: Attention should be paid to the impact on the water environment.

Part 14 - Transport information

Dangerous Goods Number: This product is not included in the << List of Dangerous Goods >> (GB12268-2012) and << Hazardous Chemicals List >> (2015 edition)

UN NO. : No data available

HS code: no data available

Package label: no information available

Packing method: steel - plastic composite bucket, plastic bucket. Do not contact with metal utensils.

Package category: No data available

Precautions for transportation: avoid sun and rain, do not turn it upside down, unload it lightly, and prevent the packaging from breaking.

Part 15 - Regulatory information

Inventory status:

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China(IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances(ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Part 16 - Additional information

Training instructions: Not applicable.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to reader: Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of