福建沃尔法化学科技有限公司
Fujian Wolfa Chemical Technology Co., Ltd

DESIGN REPORT OF SAFETY DATA SHEET

Revision Date: Dec. 27, 2025

Name of the sample	Tungsten(V) Chloride
Applicant	Fujian Wolfa Chemical Technology Co., Ltd.
Supplier	Fujian Wolfa Chemical Technology Co., Ltd.
Composition of the sample	Tungsten(V) Chloride: ≥99%
Warranty of design	GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS) Eleventh revised edition
Design Result of SDS please see next page.	

Notes:This SDS is valid before the implementation of the Twelfth revised edition GHS.

Section 1 Product and Company Identification

> Product Identifier

Product Name	Tungsten(V) Chloride
Synonyms	——
CAS No.	13470-14-9
EC No.	/
Molecular Formula	WCl_5

> Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Relevant Identified Uses	Please consult manufacturer.
Uses Advised Against	Please consult manufacturer.

> Details of the Supplier of the Safety Data Sheet

Applicant Name	Fujian Wolfa Chemical Technology Co., Ltd.
Application Address	Room 2620, Building 18, Xingguang Plaza, No.970 Anji South Road, Fengze District, Quanzhou City, Fujian Province
Applicant Post Code	362000
Applicant Telephone	+86 18050950397
Applicant Fax	——
Applicant E-mail	——
Supplier Name	Fujian Wolfa Chemical Technology Co., Ltd.
Supplier Address	Room 2620, Building 18, Xingguang Plaza, No.970 Anji South Road, Fengze District, Quanzhou City, Fujian Province
Supplier Post Code	362000
Supplier Telephone	+86 18050950397
Supplier Fax	——
Supplier E-mail	——

> Emergency Phone Number

Emergency Phone Number	+86 18050950397

Section 2 Hazards Identification

Hazard class and label elements of the product according to GHS (the Eleventh revised edition):

> GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin corrosion/irritation	Category 1B
Specific target organ toxicity - single exposure: Respiratory tract irritation	Category 3

> GHS Label Elements

Pictogram



Signal Word Danger

> Hazard Statements

H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation.

> Precautionary Statements

Prevention

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Response

P310	Immediately call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes.

Storage

P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

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Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration (weight percent, %)
Tungsten(V) Chloride	13470-14-9	/	⩾99

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice First responders should take self-protection measures and present this SDS to the doctor arriving at the scene.

Following eye contact Rinse thoroughly with plenty of water for at least 15 minutes. If discomfort persists, seek medical attention.

Following skin contact Remove contaminated clothing immediately. Rinse skin with plenty of water. If discomfort persists, seek medical attention.

If swallowed Do not induce vomiting. Seek medical advice.

If inhalation Move the affected person to fresh air immediately and seek medical attention promptly.

Protection of First Responders Ensure medical personnel understand the hazardous properties of the product and take appropriate protective measures to safeguard themselves and prevent the spread of contamination.

> Most Important Symptoms and Effects, both Acute and Delayed

Limited evidence suggests that repeated or prolonged occupational exposure may cause cumulative health effects involving organs or biochemical systems.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available.

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

For safety reasons unsuitable extinguishing agents: No data available.

> Specific Hazards Arising from the chemical

No data available.

> Special protective actions for fire-fighters

Personnel without personal breathing apparatus must not enter the hazardous area.

Maintain a safe distance and wear appropriate protective clothing to avoid skin contact.

Use water spray to knock down gases/vapors/mists.

Prevent firefighting water from contaminating surface and groundwater systems.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

Use personal protective equipment. Prevent the generation of dust. Avoid inhaling vapours, mist, or gas.

Ensure adequate ventilation. Remove all ignition sources. Evacuate personnel to safe areas. Avoid inhaling dust.

> Environmental Precautions

If safe to do so, take measures to prevent further spillage or leakage.

Avoid discharge into the environment.

> Methods and Materials for Containment and Cleaning Up

Sweep up and shovel. Collect the spilled material using an explosion-proof vacuum cleaner, then place it in a suitable container for disposal in accordance with local regulations.

Store in a properly sealed container for disposal. In case of a container spill, remove the material using an electrically protected vacuum cleaner, then place it in a container for disposal according to local regulations.

Section 7 Handling and Storage

> Precautions for Handling

Operate in a well-ventilated area.

Wear appropriate personal protective equipment.

Avoid contact with skin and eyes.

Keep away from heat sources, sparks, open flames, and hot surfaces.

Take measures to prevent electrostatic accumulation.

> Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Store in a dry, cool, and well-ventilated location.

Keep away from heat sources, sparks, open flames, and hot surfaces.

Store away from incompatible materials and foodstuff containers.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No information available.

Biological Limit Values

No information available.

> Engineering Controls

Maintain adequate ventilation, especially in enclosed areas.

Ensure that eyewash and shower facilities are available near the workplace.

Use explosion-proof electrical equipment, ventilation systems, lighting, and other installations.

Establish emergency evacuation routes and designated hazardous release containment zones as necessary.

> Personal Protection Equipment

Eye protection	Wear chemical safety goggles (compliant with EU EN 166 or US NIOSH standards).
Hand protection	Wear chemical-resistant gloves (e.g., butyl rubber gloves). It is recommended to choose protective gloves tested in accordance with standards such as EU EN 374, US F739, or NZS 2161.1.
Respiratory protection	If vapor concentrations exceed occupational exposure limits or symptoms such as irritation occur, use a full-facepiece multi-purpose respirator (US) or an AXBEK-type (EN 14387) respirator cartridge.
Skin and body protection	Gloves must be inspected before use. Remove gloves using an appropriate method (avoid touching the outer surface of the gloves) to prevent any skin contact with the product. Dispose of contaminated gloves in accordance with relevant laws, regulations, and valid laboratory procedures after use. Thoroughly wash and dry hands.

Section 9 Physical and Chemical Properties

Appearance	Black solid crystal
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Freezing Point (℃)	242℃
Initial Boiling Point and Boiling Range (℃)	297.19℃(estimate)
Flash Point (℃)	No information available
Evaporation Rate	No information available
Flammability	No information available
Upper/lower explosive limits[%(v/v)]	Upper limit: No information available; Lower limit: No information available
Vapor Pressure (KPa)	No information available
Relative Vapour Density(Air=1)	No information available
Relative Density(Water=1)	3.875
Water Solubility	Hydrolyzed
n-Octanol/Water Partition Coefficient	No information available
Auto-Ignition Temperature(℃)	No information available
Decomposition Temperature (℃)	No information available
Kinematic Viscosity (mm^2/s)	No information available
Particle Characteristics	No information available
Critical Temperature(℃)	No information available

Section 10 Stability and Reactivity

Chemical Stability	This product is chemically stable under standard environmental conditions

	(room temperature).
Possibility of Hazardous Reactions	No data available.
Conditions to Avoid	Water, moisture, air, strong oxidizing agents.
Materials to avoid	No data available.
Hazardous decomposition products	Under normal storage and usage conditions, no hazardous decomposition products are generated.

Section 11 Toxicological Information

> Acute Toxicity

No information available

> Skin Corrosion/Irritation

Causes severe skin burns and eye damage (Category 1B).

> Serious Eye Damage/Irritation

Causes serious eye damage

> Respiratory Sensitization

No information available

> Skin Sensitization

No information available

> Germ Cell Mutagenicity

No information available

> Carcinogenicity

No information available

> Reproductive Toxicity

No information available

> Reproductive Toxicity Hazard

No information available

> STOT-single Exposure

May cause respiratory irritation

> Specific Target Organ Toxicity - Repeated Exposure

No information available

> Aspiration Hazard

No information available

Section 12 Ecological Information

> Acute aquatic Toxicity

No information available

> Chronic aquatic toxicity

No information available

> Others

Persistence and Degradability	No information available
Bioaccumulative Potential	No information available
Mobility in Soil	No information available
Results of PBT and vPvB Assessment	No information available

Section 13 Disposal Considerations

> Waste treatment methods

Waste Products	Before disposal should refer to the relevant national and local laws and regulation.Recommend the use of incineration disposal.
Contaminated Packaging	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.
Other Information	Refer to Waste chemicals and Contaminated packaging.

Section 14 Transport Information

Transporting Label



Marine Pollutant	No
UN Number	3260
Proper Shipping Name	Corrosive solid, acidic, inorganic, n.o.s.*
Hazard Class	8
Subsidiary Hazard Class	None
Packing Group	II

Section15 Regulatory Information

Regulatory Information

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECL	AIIC	ENCS
Tungsten(V) Chloride	×	×	×	×	×	×	×	×	×

【EINECS】 European Inventory of Existing Commercial Chemical Substances

【TSCA】	Toxic Substances Control Act Inventory (United States)
【DSL】	Domestic Substances List (Canada)
【IECSC】	Inventory of Existing Chemical Substances in China
【NZIoC】	New Zealand Inventory of Chemicals
【PICCS】	Philippines Inventory of Chemicals and Chemical Substances
【KECL】	Korean Existing Chemicals List
【AIIC】	Australian Inventory of Industrial Chemicals
【ENCS】	Existing and New Chemical Substances (Japan)

Note

"√" Indicates that the substance included in the regulations

"×" That no data or included in the regulations

Section 16 Additional Information

Preparation Date	Dec. 1, 2022
Revision Date	Dec. 27, 2025
Revision Reason	SDS Update Section

Disclaimer

The information provided in this Safety Data Sheet is correct based on the latest knowledge, information and concepts available to us. The information provided is intended only as a guide for safe operation, use, processing, storage, transportation, disposal and discharge and is not intended as a guarantee or specification of quality. This information is only used for the specific substance specified and may not be suitable for mixing with any other substance or in all cases, unless otherwise specified in the context.