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: October 17, 2025

Name of the sample	TELLURIUM DIETHYL
Applicant	Fujian Wolfa Chemical Technology Co., Ltd.
Supplier	Fujian Wolfa Chemical Technology Co., Ltd.
Composition of the sample	TELLURIUM DIETHYL: ≥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.

SAFETY DATA SHEET

SDS

Section 1 Product and Company Identification

> Product Identifier

Product Name	TELLURIUM DIETHYL
Synonyms	——
CAS No.	627-54-3
EC No.	211-002-8
Molecular Formula	$C_4H_{10}Te$

> 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)

Flammable liquids	Category 3
Pyrophoric liquids	Category 1

Substances and mixtures, which in contact with water, emit flammable gases	Category 1
Acute toxicity - inhalation	Category 3

> GHS Label Elements

Pictogram



Signal Word Danger

> Hazard Statements

H226	Flammable liquid and vapour.
H250	Catches fire spontaneously if exposed to air.
H260	In contact with water releases flammable gases which may ignite spontaneously.
H331	Toxic if inhaled.

> Precautionary Statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	Wear respiratory protection.

Response

P301 + P310 + P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician..Rinse mouth.

P302+P352	IF ON SKIN: wash with plenty of soap and water.
P303+ P361 + P353	IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.
P304 + P340 + P311	IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.Call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P342 + P311	IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.
P361 + P364	Remove/Take off immediately all contaminated clothing and wash before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical powder or alcohol-resistant foam for extinction.
P311	Call a POISON CENTER or doctor/physician.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
Storage	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Disposal	
P501	Dispose of contents/container to an approved waste disposal plant.

Section 3 Composition/Information on Ingredients

Component	CAS No.	EC No.	Concentration (weight percent, %)
TELLURIUM DIETHYL	627-54-3	211-002-8	≥99

Section 4 First Aid Measures

> Description of First Aid Measures

General Advice	First aid personnel must protect themselves. Present this safety data sheet to the physician at the scene.
Following Eye Contact	After contact with eyes: Separate eyelids and rinse gently with flowing water or saline. Seek immediate medical attention.
Following Skin Contact	In case of skin contact: Immediately remove/Take off all contaminated clothing. Wash skin with water/Shower. Call a doctor immediately.
If Swallowed	If swallowed: Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.
If Inhalation	After inhalation: Move person to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention immediately. If breathing has stopped: Immediately administer artificial respiration, and use oxygen if necessary.

> Most Important Symptoms and Effects, both Acute and Delayed

The most important known symptoms and effects are described in the hazard statements (Section 2) and in Section 11.

> Indication of Any Immediate Medical Attention and Special Treatment Needed

No data available

Section 5 Fire Fighting Measures

> Extinguishing Media

Suitable extinguishing media: Foam, carbon dioxide, dry powder.

For safety reasons unsuitable extinguishing agents: Do not use a solid water stream for extinction, as it may cause splattering of flammable liquid and spread the fire.

> Specific Hazards Arising from the chemical

No data available

> Special protective actions for fire-fighters

Firefighters must wear self-contained breathing apparatus and full protective clothing. Fight the fire from upwind.

If possible, move the container from the fire area to an open space and cool it with water.

Immediately evacuate the area if a container in the fire zone shows discoloration or noises from its safety relief device.

Isolate the incident scene and prevent entry by unauthorized personnel.

Contain and treat firefighting water runoff to prevent environmental contamination.

Section 6 Accidental Release Measure

> Personal Precautions, Protective Equipment and Emergency Procedures

It is recommended that emergency responders wear self-contained breathing apparatus, anti-static clothing, and oil-resistant rubber gloves.

Advice for non-emergency personnel: Do not inhale vapour or aerosols.

Avoid contact with or walking over the spilled material.

All equipment used during operations must be grounded. Ensure adequate ventilation. Keep away from heat and ignition sources.

Stop the leak if possible without risk. Eliminate all ignition sources. Based on the impact area of liquid flow, vapour, or dust dispersion, cordon off the area. Evacuate non-essential personnel upwind and crosswind to a safe zone.

> Environmental Precautions

Prevent the spilled material from entering sewers. Risk of explosion.

> Methods and Materials for Containment and Cleaning Up

Small spill	Collect the leaking liquid in a sealable container as far as possible. Absorb with sand, activated carbon or other inert material and transfer to a safe place. Do not flush into sewers.
Large spill	Construct dikes or dig pits to contain the spill. Block drainage pipes. Cover with foam to suppress evaporation. Transfer using explosion-proof pumps to tank trucks or dedicated collectors for recovery or disposal at a waste treatment facility.

Section 7 Handling and Storage

> Precautions for Handling

1 Operators should receive specialized training and strictly adhere to operating procedures.
2 Operations should be conducted in areas equipped with local or general ventilation systems.
3 Avoid contact with eyes and skin, and avoid inhaling vapors.
4 Keep away from ignition sources and heat; smoking is strictly prohibited in the workplace.
5 Use explosion-proof ventilation systems and equipment.
6 For drum filling, control the flow rate and ensure grounding to prevent static electricity accumulation.
7 Avoid contact with incompatible materials such as oxidizing agents (see Section 10 for details).
8 Handle with care during transportation to avoid damage to packaging and containers.
9 Empty containers may retain hazardous residues.
10 Wash hands after use; eating and drinking in the workplace are prohibited.
11 Equip with appropriate types and quantities of firefighting equipment and leak emergency response devices.
12 Wear suitable personal protective equipment.

> Conditions for safe storage, including any incompatibilities

1 Store in a cool, well-ventilated warehouse.
2 Keep separate from oxidizing agents and food-grade chemicals. Avoid mixed storage.
3 Keep containers tightly sealed.
4 Keep away from ignition sources and heat.
5 The warehouse must be equipped with lightning protection equipment.
6 The ventilation system should include grounding devices to remove static electricity.
7 Use explosion-proof lighting and ventilation facilities.
8 Avoid using equipment and tools that may generate sparks.
9 The storage area should be equipped with leak emergency response equipment and appropriate containment materials.
10 Store away from incompatible materials and food containers.
11 Store under an inert gas atmosphere.
12 Avoid any contact with water during storage.

Section 8 Exposure Controls/Personal Protection

> Control Parameters

Occupational Exposure Limit Values

No data available

> Monitoring Methods

EN 14042: Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

GBZ/T 160.1~GBZ/T 160.81-2004: Determination of toxic substances in workplace air (Series of effective standards).

> Engineering Controls

It is recommended to separate the work area from other operational areas.

Operate in a closed system to prevent leaks.

Ensure adequate ventilation.

Establish emergency evacuation routes and necessary hazard mitigation zones.

Install automatic alarm devices and accident ventilation facilities.

Mark red zoning lines, warning signs and caution notices in Chinese, and install a communication and alarm system.

Provide safety showers and eye-wash equipment.

> Personal Protection Equipment

Eye protection	Please use eye protection that is tested and approved against official standards such as NIOSH (USA) or EN 166 (EU). Tightly fitting protective goggles should be worn.
Hand protection	Wear chemical protective gloves (e.g., butyl rubber gloves). Gloves tested to European EN 374, US F739, or AS/NZS 2161.1 standards are recommended.
Skin and Body Protection	Wear flame-retardant and antistatic protective clothing and antistatic safety boots.
Respiratory Protection	When concentrations exceed exposure limits, workers must use appropriate respiratory protection. To ensure wearer protection, respiratory protective equipment must be correctly fitted and shall be properly used and maintained.

Section 9 Physical and Chemical Properties

Appearance: Light yellow liquid

Odor: No information available

Odor Threshold: No information available

pH: No information available

Melting Point/Freezing Point (℃): No information available

Initial Boiling Point and Boiling Range (℃): 137-138℃(lit.)

Flash Point (℃): 42 ℃ (c.c.)

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): 1.599 g/ml

Solubility: No information available

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

Reactivity	No data available.
Chemical Stability	This product is chemically stable under standard ambient conditions (room temperature).
Possibility of Hazardous Reactions	No data available.
Conditions to Avoid	Static electricity, heat, moisture, etc.
Incompatible Materials	Strong oxidizing agent.
Hazardous Decomposition Products	No data available.

Section 11 Toxicological Information

> Acute Toxicity

Toxic if inhaled

> Skin Corrosion/Irritation

No information available

> Serious Eye Damage/Irritation

No information available

> Skin Sensitization

No information available

> Respiratory sensitization

No information available

> Germ cell mutagenicity

No information available

> Carcinogenicity

No information available

> Reproductive toxicity

No information available

> Specific target organ toxicity - single exposure

No information available

> Specific target organ toxicity - repeated exposure

No information available

> Inhalation 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.
Bioaccumulation or Bioaccumulation Potential	No information available.

Mobility in Soil	No information available.
PBT and vPvB Assessment Results	No information available.

Section 13 Disposal Considerations

> Waste treatment methods

Waste Chemicals	Dispose of residual and non-recyclable solution to a licensed company.
Contaminated Packaging	Return containers to the manufacturer or dispose of according to national and local regulations.
Disposal Considerations	Refer to national and local regulations before disposal. For safety precautions for disposers, refer to Section 8.

Section 14 Transport Information

Transporting Label	
Marine Pollutants	No
UN Dangerous Goods Number (UN No.)	UN3394
UN Proper Shipping Name	ORGANOMETALLIC SUBSTANCE, LIQUID,PYROPHORIC,WATER-REACTIVE
Primary Transport Hazard Class	4.2
Secondary Transport Hazard Class	4.3
Packing Group	I

Section15 Regulatory Information

> Regulatory Information

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AIIC	ENCS
TELLURIUM DIETHYL	√	√	×	√	×	×	×	×	×

【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 Oct.17,2025

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.