# **Material Safety Data Sheet**

# 2,4-D 720g/L SL

# 2,4-D Dimethylamine Salt 720 g/L SL

Revision Date: September 4, 2018

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product information	
Usage:	Herbicide, Plant growth regulator
Company:	ZHEJIANG XINAN CHEMICAL INDUSTRIAL GROUP CO., LTD.
Telephone:	0086-571-87220466
Telefax:	0086-571-87220464

Responsible Department Material and Transport Safety Management:Not applicable.Emergency telephone number:Not applicable.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

2,4D Dimethylamine Salt 720 g/L SL		
Chemical Name:	CAS-No.:	Concentration [g/L]
2,4-D dimethylamine salt	2008-39-1	720
Other ingredients (non-hazardous)		Up to 1L

### 3. HAZARDS IDENTIFICATION

### Risk advice to man and the environment

Causes respiratory tract irritation. Harmful if swallowed. May be harmful if absorbed through the skin. Causes severe eye irritation. May cause allergic skin reaction. Target Organs: Central nervous system, respiratory system, eyes, skin.

### Potential health effects

*Eye:* Causes severe eye irritation.

- *Skin:* Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident upon re–exposure to this material. May be harmful if absorbed through the skin.
- *Ingestion:* Harmful if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. Human fatalities have been reported from acute poisoning.
- *Inhalation:* Causes respiratory tract irritation. Can produce delayed pulmonary edema.

*Chronic:* May cause liver and kidney damage. May cause reproductive and fetal effects. Effects may be delayed. Chronic exposure will cause neurological degradation and/or abnormalities.

### 4. FIRST AID MEASURES

General advice: If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

Inhalation:	Remove from exposure and move to fresh air immediately. If not
	breathing, give artificial respiration. If breathing is difficult, give oxygen.
	Get medical aid. Do NOT use mouth-to-mouth resuscitation
Skin:	Get medical aid. Flush skin with plenty of water for at least 15 minutes
	while removing contaminated clothing and shoes. Wash clothing before
	reuse.
Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes,
	occasionally lifting the upper and lower eyelids. Get medical aid.
Ingestion:	Never give anything by mouth to an unconscious person. Get medical
	aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and
	drink 2–4 cupfuls of milk or water.
Notes to physician:	Treat symptomatically and supportively.

### 5. FIRE-FIGHTING MEASURES

General information:	As in any fire, wear a self-contained breathing apparatus in
	pressure demand, MSHA/NIOSH (approved or equivalent), and
	full protective gear. During a fire, irritating and highly toxic gases
	may be generated by thermal decomposition or combustion.
	Combustible material; may burn but does not ignite readily.
Extinguishing media:	Use water spray, dry chemical, carbon dioxide, or appropriate
	foam.

### 6. ACCIDENTAL RELEASE MEASURES

General information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

### 7. HANDLING AND STORAGE

- **Handling:** Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation. Wash clothing before reuse.
- **Storage:** Store in a tightly closed container. Store in a cool, dry, well-ventilated area away

from incompatible substances.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Personal protective equipment:

Eyes:	Wear appropriate protective eyeglasses or chemical safety goggles as described
	by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European
	Standard EN166.
Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Respiratory:	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI
	Z88.2 requirements or European Standard EN 149 must be followed
	whenever workplace conditions warrant a respirator's use.
Engineering	Facilities storing or utilizing this material should be equipped with an eyewash
controls:	facility and a safety shower. Use adequate general or local exhaust ventilation to
	keep airborne concentrations below the permissible exposure limits.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white to light yellow
State:	Liquid
Odor:	Amine odor
pH:	7.0-10.0
Flash point:	Not flammable
Explosive properties :	Not explosive
Oxidizing properties :	Not oxidizing
Specific density/Density:	1.19 g/cm <sup>3</sup>
Solubility in water:	Soluble

### **10. STABILITY AND REACTIVITY**

Chemical stability:	Stable at room temperature in closed containers under normal storage and handling conditions.
Conditions to avoid: Incompatibilities with other materials:	Dust generation, excess heat. Strong oxidizing agents.
Hazardous decomposition products: Hazardous polymerization:	Hydrogen chloride, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide. Has not been reported

### **11. TOXICOLOGICAL INFORMATION**

Acute Oral, rat, LD <sub>50</sub> :	>300 mg/kg
Acute Dermal , rat, LD <sub>50</sub> :	>2000 mg/kg
Acute Inhalation:	>5 mg/L (4h)

Dermal irritation:	Non irritation
Eye irritation:	Serious eye damage/Irreversible effects on the
	eyes
Skin sensitization:	Non-sensitizing. (guinea pig)

### **12. ECOLOGICAL INFORMATION**

### **Environmental:**

Terrestrial:	Biodegradation is by far the most important loss process for 2,4–D in
	most soils, leading to various hydroxylic aromatic products.
Aquatic:	Will tend to biodegrade with the rate especially dependent upon
	level of nutrients present, temperature, availability of oxygen, and
	whether or not the water has a prior history of contamination by
	2,4-D or other phenoxyacetic acids. Typical half-lives of 10 to >50
	days have been reported.
Atmospheric:	The primary source of 2,4-D in air is spray applications of the
	herbicide or its mixture. Half life 1 day.
Ecotoxicity effe	ects
Fish:	LC50 (96h) for rainbow trout is >100 mg/l
Bird:	LD50 for Japanese quails is 1642.23 mg/l (95% Cl
	is 1292.49-2524.91 mg/l)

### **13. DISPOSAL CONSIDERATIONS**

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### **14. TRANSPORT INFORMATION**

Not available.

### **15. REGULATION INFORMATION**

Not available.

### **16. OTHER INFORMATION**

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a

copy of which is sent to our customers and is also available on request.

## ZHEJIANG XINAN CHEMICAL INDUSTRIAL GROUP CO., LTD.