



Dojindo Laboratories

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Material Safety Data Sheet (MSDS)

This product is a chemical substance and is intended to be used by persons having chemical knowledge and skill, at their own discretion and risk.

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Section 1. <i>Chemical Identification</i>	
Trade Name:	DMPO
Product Code:	D048
Manufacturer:	Dojindo Laboratories
Address:	Tabaru 2025-5 Mashiki-machi, Kamimashiki-gun, Kumamoto 861-2202, Japan
Telephone:	+81-96-286-1515

Section 2. <i>Hazard Statement</i>	
Health Hazards (Acute and Chronic):	
May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation.	
Material is irritating to mucous membranes and upper respiratory tract.	
Hazard Class:	Not applicable
Signs and Symptoms of Exposure:	Not available
Medical Conditions Generally Aggravated by	Not available
Exposure:	
Physical and Chemical Hazard :	
-	Not categorical
Health Hazard:	
Acute toxic(oral):	Not categorical
Acute toxic(skin):	Not categorical
Acute toxic(inhale):	Not categorical
Skin corrosion/Skin irritation:	Not categorical
Serious eye damage/Eye irritation:	Not categorical
Respiratory sensitizer:	Not categorical
Skin sensitizer:	Not categorical
Germ cell Mutagen:	Not categorical
Carcinogen:	Not categorical
Germ toxic:	Not categorical
Target internal organs /general toxic:	Not categorical
(individual single exposure):	
Target internal organs /general toxic:	Not categorical
(repeated exposure):	
Respiratory hazard:	Not categorical
Ecology Hazard:	
Aquatic ecology acute hazard :	Not categorical
Aquatic ecology chronic hazard :	Not categorical
Symbol:	None
Signal Word	Not signal word
Hazard Statement:	
Precautionary Statement	None
Precaution:	-
First-aid:	-
Storage:	-
Disposal:	-

Section3. <i>Composition / Information on Ingredients</i>	
Chemical Name:	
5,5-Dimethyl-1-pyrroline <i>N</i> -oxide	
Ingredient/Content:	99.0% up
Molecular Formula:	C ₆ H ₁₁ NO
Molecular Weight:	113.16
CAS Registry #:	3317-61-1

EINECS/ELINCS:	-
Hazardous ingredient:	Not applicable

Section 4. <i>First Aid Procedures</i>	
In case of contact with eyes , immediately flush eyes with copious amounts of water for at least 15 minutes. In case of contact, immediately wash skin with soap and copious amounts of water . Assure adequate flushing of the eyes by separating the eyelids with fingers . If inhaled, remove to fresh air. If not breathing, give artificial respiration . If breathing is difficult , give oxygen. If ingested, wash out mouth with water . Call a physician. Discard contaminated clothing and shoes .	

Section 5. <i>Fire and Explosion Hazard Data</i>	
Flash Point (Method Used):	Not available
Flammable Limits:	Not available
Extinguishing Media:	Carbon dioxide, dry chemical powder, foam, water.
Special Fire Fighting Procedures :	Wear protective clothing, respirator, chemical safety goggles , rubber boots and heavy rubber gloves .
Unusual Fire and Explosion Hazards :	Fire may produce irritating or poisonous gases .

Section 6. <i>Accidental Release Measures</i>	
Steps to be Taken in Case Material is Released or Spilled :	Wear self-contained breathing apparatus , rubber boots and heavy rubber gloves . Evacuate area . Sweep up, place in a bag and hold for waste disposal .Ventilate area and wash spill site after material pickup is complete . Avoid raising dust.

Section 7. <i>Handling and Storage</i>	
Wear appropriate NIOSH / MSHA-approved respirator, chemical-safety goggles, chemical-resistant gloves, other protective clothing. Mechanical exhaust required . Use only in a chemical fume hood . Safety shower and eye bath. Face shield.	
Do not breathe dust. Do not get in eyes, on skin, on clothing. Wash thoroughly after handling . Irritant. Avoid all contact. Avoid prolonged or repeat.	
Other Precautions: Keep tightly closed. Protect from metals and light . Store in deep freeze at -20°C.	

Section 8. <i>Exposure Controls / Personal Protection</i>	
Respiratory Protection (Specify Type):	Necessary
Ventilation, Local Exhaust:	Chemical fume hood
Mechanical (General):	Necessary
ACGIH:	Not available
Protective Gloves:	Chemical-resistant gloves
Eye Protection:	Chemical-safety goggles
Other protective Clothing or Equipment :	Necessary
Work / Hygienic Practices:	
Wash thoroughly after handling . Access to a safety shower and eye -wash. Do not permit eating, drinking or smoking near material.	

Section 9. <i>Physical / Chemical Characteristics</i>	
Melting Point:	15 ~25°C
Boiling Point:	75 °C(0.4 mmHg)
Specific Gravity (water=1):	1.01
Vapor Pressure:	Not available
Vapor Density (air=1):	Not available
Evaporation Rate (butyl acetate=1):	Not available
Solubility in Water:	Soluble
Appearance and Odor:	Colorless liquid [White solid(-20°C)]

Section 10. <i>Reactivity Data</i>	
Stability:	Stable
Conditions to Avoid:	Heat, sunlight, high temperature
Incompatibility (Materials to Avoid):	Strong oxidizing agents, strong acids and strong bases .
Hazardous Decomposition or Byproducts :	When decomposed, it may emit toxic fumes of carbon monoxide , carbon dioxide and nitrogen oxides .
Hazardous Polymerization:	Will Not Occur

Section 11. <i>Toxicological Information</i>	
Acute Effects:	Data not available
Chronic Effects:	Data not available
Carcinogenicity:	Data not available
RTECS #:	Data not available
Section 12. <i>Ecological Information</i>	
Ecotoxicity:	Data not available
Section 13. <i>Disposal Considerations</i>	
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.	
Section 14. <i>Transport Information</i>	
UN No.:	Data not available
Class:	Data not available
PG:	Data not available
Description:	Data not available
Section 15. <i>Regulatory Information</i>	
PRTR Law:	Not applicable
Industrial Safety and Health Law :	Not applicable
Posisonous and Deleterious Substance Control Law:	Not applicable
Fire Service Act:	Not applicable
Law Concerning the Examination and Regulationof Manufacture , etc of Chemical Substances:	Not applicable
Avitation Law:	Not applicable
Ship Safety Law:	Not applicable
Section 16. <i>Other Information</i>	
The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.	
Dojindo Laboratories shall not be held liable for any damage resulting from handling or from contact with the above material.	
MSDS Creation Date:	2010/11/15
Revision #:	

Kazumi Sasamoto
Managing Director