


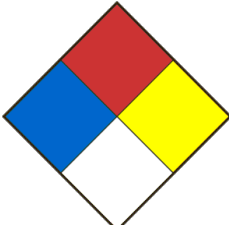


SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier 2,4-DICHLOROPHENOXYACETIC ACID		Product Use Laboratory use	
Chemical formula C ₈ H ₆ Cl ₂ O ₃		Product code DP-0138	Molar weight 221,03
Chemical name / Commercial name / Synonymous 2,4-D; 2,4-Dichlorophenoxyacetic acid; Acide dichloro-2,4 phénoxyacétique; Acide 2,4-dichlorophénoxyacétique			
Supplier's name Laboratoire MAT		Address-Street 610, Adanac Street	
City Québec		Province Québec	
Postal code G1C 7B7	Internet www.labmat.com	Phone number 418-660-8666 Lun-Ven 8h-16h	
Emergency phone	418-660-8666 Lun-Ven 8h-16h		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060
Date SDS 5/2/2024	SDS Prepared by Laboratoire MAT		E-Mail labmat@labmat.com

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS	<p>Acute toxicity - Oral category 4</p> <p>Respiratory or skin sensitization - Skin sensitize category 1A</p> <p>Specific target organ toxicity - Single exposure category 3</p> <p>Serious eye damage/eye irritation - Serious eye damage category 1</p> <p>Carcinogenicity category 2</p>
Signal Word	<p>DANGER</p>
Hazards statements (H)	<p>H302 Harmful if swallowed.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H335 May cause respiratory irritation.</p> <p>H318 Causes serious eye damage.</p> <p>H351 Suspected of causing cancer.</p>
Precautionary statements (P)	<p>P261 Avoid breathing dust / fume / gas / mist / vapors / spray.</p> <p>P264 Wash the areas of the body that have been in contact with the product after handling.</p> <p>P270 Do no eat, drink or smoke when using this product.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves, protective clothing and eye and face protection.</p> <p>P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P302 + P352 IF ON SKIN: Wash with plenty of soap and water.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 Call a POISON CENTER or doctor/physician if you feel unwell.</p> <p>P321 Specific treatment (see section 4 of the SDS and on this label).</p> <p>P330 Rinse mouth.</p> <p>P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P362 + P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER or doctor/physician.</p> <p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P308 + P313 IF exposed or concerned: Get medical advice/attention.</p>
PICTOGRAMS	
Other dangers	<p>NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)</p>
	<p>Health 3</p> <p>Fire 0</p> <p>Reactivity 0</p> <p>Special danger</p>

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%P/P)
Acide 2,4-dichlorophénoxyacétique	94-75-7	<=100

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. Seek immediate medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. Seek immediate medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Seek immediate medical attention.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediate medical consultation is required.
Most important symptoms and effects (acute and delayed)	Main symptoms of high exposure: Skin, eye and respiratory system irritation. Nausea and vomiting. Headaches. Liver damage. Kidney damage. Breathing difficulties. Neurological damage. Ataxia (balance disorder). Haematotoxic effects. Damage to the thyroid gland. Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

SECTION 05 - FIREFIGHTING MEASURES

Flammability	No
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Not applicable.
Hazardous combustion products	Hazardous combustion products formed under fire conditions: - Hydrogen chloride gas Phosgene (carbonyl dichloride) Carbon monoxide (CO) Carbon dioxide (CO ₂)
Specific hazards of the dangerous product	May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up / Personal precautions, protective equipment	Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Wear respiratory protection. Avoid breathing dust. Pick up with a shovel or broom, taking care not to scatter dust. Dispose of residues in a container provided for the disposal of hazardous materials. Do not let product enter drains. Discharge into the environment must be avoided.
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SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products. Protect from light and sunlight. Keep container tightly closed in a dry and well-ventilated place.
Methods of handling	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed. Avoid ingestion and inhalation. Avoid contact with the skin, eyes and clothes. Wear personal protective equipment when handling. Always ensure good ventilation.

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS-No.	Control parameters	Value	Basis
2,4-dichlorophenoxyacetic acid	95-75-7	TWA	10 mg/m ³	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
Remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required			
		TWAEV	10 mg/m ³	Quebec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
	Carcinogenic effect suspected in humans			
		TWA	10 mg/m ³	Canada. British Columbia OEL
		STEL	20 mg/m ³	Canada. British Columbia OEL
	IARC '2B' applies to substances deemed possibly carcinogenic to humans.			

Data source	Sigma-Aldrich.
Ventilation	Fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Solid.
Appearance	Cristalline, brun pâle.
Odour	Donnée non disponible.
Odour threshold	Data not available
pH	Donnée non disponible.
Melting point / Freezing point	136 - 140 °C
Initial boiling point	160 °C
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Vapour density	Data not available
Relative density	1.42 g/cm ³ .
Solubility	540ppm à 20°C dans l'eau; soluble dans l'alcool.
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

SECTION 10 - STABILITY AND REACTIVITY

Reactivity	May react violently with incompatible substances. Fine dusts of organic materials have the potential to form a combustible or explosive mixture with air if confined in a small space and subjected to an ignition source.
Chemical stability	Stable under recommended storage conditions. Sensitive to light.
Possibility of hazardous reactions	May react violently with incompatible substances. May form combustible dust concentrations in the air. Dust can form an explosive mixture with air.
Conditions to avoid, including static discharge, shock or vibration	Avoid contact with incompatible materials. Light sensitive. Avoid dust formation.
Incompatible materials	Strong oxidizers. Alkalis. Some metals. Copper. Iron compounds.
Hazardous decomposition products	Carbon monoxide (CO), Carbon dioxide (CO ₂) Hydrogen chloride gas.

SECTION 11 - TOXICOLOGICAL INFORMATION

2,4-DICHLOROPHENOXYACETIC ACID

Routes of exposure	Ingestion and skin contact.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Causes eye burns.
- Skin	Severe irritation.
- Inhalation	To our knowledge, the product has not been fully studied.
Acute toxicity (Ingestion)	Headache, nausea and vomiting
Chronic exposure effects / symptoms	Liver damage. Kidney damage. Liver damage. Damage to the nervous system. Blood. Thyroid gland. Ataxia (disorders in coordination of movements). Skin sensitizer.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 640 mg/kg. LD50 Dermal - Rabbit - 1400 mg/kg.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - > 1.7 mg/L - 4 h.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity	Toxicity to fish: LC50 - Salmo salar (Atlantic salmon) - 100 mg/L - 96 h. Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h. Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (green algae) - 0.024 - 0.026 mg/l - 96 h.
Persistence and degradability	Data not available.
Bioaccumulative potential	Data not available.
Mobility in soil	Data not available.
Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Do not flush into surface water or sanitary sewer system. Do not throw residues in the sewer.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	Dispose of contents and container in accordance with local, regional and national regulations, or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

SECTION 14 - TRANSPORT INFORMATION

UN Number	3077
UN Proper shipping name	MATIÈRE DANGEREUSE DU POINT DE VUE DE L'ENVIRONNEMENT, SOLIDE, N.S.A.
Transport hazard class(es)	9 Miscellaneous dangerous goods/hazardous material
Packing group	III
Limited quantity index	5kg
ERAP Index	-
Special precautions	16,99 (acide 2,4-Dichlorophenoxyacetique)

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA	Acute toxicity - Oral category 4 Respiratory or skin sensitization - Skin sensitize category 1A Specific target organ toxicity - Single exposure category 3 Serious eye damage/eye irritation - Serious eye damage category 1 Carcinogenicity category 2
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SECTION 16 - OTHER INFORMATION

Further information

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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