

Safety Data Sheet 26175X4 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/27/2017 Version: 1.0

Substance name : 2,4-Dichlor CAS No : 4252-78-2 Product code : 2617-5-X4 Formula : C8H5Cl3O Synonyms : 2,2,4'-Trict Other means of identification : MFCD0000 1.2. Relevant identified uses of the substance or mixtu Use of the substance/mixture : Laboratory Manufactuu Scientific re 1.3. Details of the supplier of the safety data sheet SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.com 1.4. Emergency telephone number Emergency number : (844) 523-4 SECTION 2: Hazard(s) identification 2.1. Classification of the substance or mixture Classification (GHS-US) Skin Irrit. 2 H315 - Causes skin irritation Eye Dam. 1 H317 - May cause an allergic skin reaction STOT SE 3 H335 - May cause respiratory irritation Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	re and uses advised against
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Hazard statements (GHS-US) : H315 - Cau H317 - May H318 - Cau H335 - May	
Precautionary statements (GHS-US) P261 - Avo	ses skin irritation cause an allergic skin reaction ses serious eye damage cause respiratory irritation
P264 - Was P271 - Use P272 - Cor P280 - Wes P302+P353 P304+P340 P305+P355 Ienses, if p P310 - Imm P321 - Spe P332+P313 P333+P313	d breathing dust, mist, spray
12/27/2017 EN (English U	h skin thoroughly after handling only outdoors or in a well-ventilated area aminated work clothing must not be allowed out of the workplace r protective gloves/protective clothing/eye protection/face protection - If on skin: Wash with plenty of soap and water - If inhaled: Remove person to fresh air and keep comfortable for breathing +P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact esent and easy to do. Continue rinsing ediately call a POISON CENTER or doctor/ physician cific treatment (see supplemental first aid instructions on this label) - If skin irritation occurs: Get medical advice/attention - If skin irritation or rash occurs: Get medical advice/attention - Take off contaminated clothing and wash it before reuse

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	P40 P40	 3 - Wash contaminated clothing before read 3+P233 - Store in a well-ventilated place. 5 - Store locked up 1 - Dispose of contents/container to an ap 	Keep container	0 7
2.3. Other hazards				
Other hazards not contributing to the classification	: Lach	nrymator.		
2.4. Unknown acute toxicity (GHS US)			
Not applicable				
SECTION 3: Composition/informa	tion on i	ngredients		
3.1. Substance				
Substance type	: Mon	o-constituent		
Name		Product identifier	%	Classification (GHS-US)
2,4-Dichlorophenacyl chloride		(CAS No) 4252-78-2	7 0 <= 100	Skin Irrit. 2, H315
(Main constituent)		(043 10) 4252-1 0-2	~ 100	Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Full text of H-phrases: see section 16				•
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: In ca	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.		
First-aid measures after inhalation		: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact		Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.		
First-aid measures after eye contact		: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion		: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.		
4.2. Most important symptoms and e	ffects, both	acute and delayed		
Symptoms/injuries		The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
Symptoms/injuries after inhalation		: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.		
4.3. Indication of any immediate med	ical attenti	on and special treatment needed		
Treat symptomatically.				
SECTION 5: Firefighting measures	s			
5.1. Extinguishing media				
Suitable extinguishing media		hol resistant foam. Carbon dioxide. Dry poopriate for surrounding fire.	owder. Water sp	oray. Use extinguishing media
5.2. Special hazards arising from the	substance	or mixture		
Fire hazard		mal decomposition generates: Carbon ox	ides. Hydrogen	chloride.
5.3. Advice for firefighters				
Firefighting instructions	; In c	ase of fire: Evacuate area.		
Protection during firefighting		ir gas tight chemically protective clothing i	n combination v	vith self contained breathing
rocodori duning monghung		aratus. For further information refer to sec		
SECTION 6: Accidental release m	easures			
6.1. Personal precautions, protective	equipmen	t and emergency procedures		
General measures	: Eva	cuate unnecessary personnel. Ensure ade	equate air ventila	ation. Do not breathe dust.
6.1.1. For non-emergency personnel				
Emergency procedures		r qualified personnel equipped with suitab		· · ·
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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify	authorities if product enters sewers or public waters.
6.3. Methods and material for co	ntainment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and stor	rage
7.1. Precautions for safe handlin	lg
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage,	including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	Store in dry cool well-ventilated area

Storage area : Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 47 - 56 °C
Freezing point	: No data available
Boiling point	: 130 - 135 °C (@ 4 mm Hg)
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available

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Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.312 g/ml (@ 25 °C)
Molecular mass	: 223.48 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong bases. Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity : Not classified

/ totto toxiony	
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

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12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
	tional information available

Vaste treatment methods	: Remove to an authorized incinerator equipped with an afterburn	er and a flue gas scrubber.
Vaste disposal recommendations	: Dispose of contents/container in accordance with licensed college	ctor's sorting instructions.
Additional information	: Recycle the material as far as possible.	
SECTION 14: Transport information		
Department of Transportation (DOT)		
n accordance with DOT		
ransport document description	: UN3335 Aviation regulated solid, n.o.s., 9	
JN-No.(DOT)	: UN3335	
Proper Shipping Name (DOT)	: Aviation regulated solid, n.o.s.	
ransport hazard class(es) (DOT)	: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140)
lazard labels (DOT)	: 9 - Class 9 (Miscellaneous dangerous materials)	
OOT Packaging Non Bulk (49 CFR 173.xxx)	: 204	
DOT Symbols	 A - Material is regulated as a hazardous material only when trar PSN requiring a technical name 	sported by air,G - Identifies
OOT Special Provisions (49 CFR 172.102)	: A35 - This includes any material which is not covered by any of an anesthetic, narcotic, noxious or other similar properties such leakage on an aircraft, extreme annoyance or discomfort could b as to prevent the correct performance of assigned duties.	that, in the event of spillage o
OOT Packaging Exceptions (49 CFR 173.xxx)	: 155	
DOT Quantity Limitations Passenger aircraft/rail 49 CFR 173.27)	: 400 kg	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 400 kg	
OOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a passenger vessel.	a cargo vessel and on a
Other information	: No supplementary information available.	
ſDG		
No additional information available		
Fransport by sea		
JN-No. (IMDG)	: 3335	
Proper Shipping Name (IMDG)	: AVIATION REGULATED SOLID, N.O.S.	
Class (IMDG)	: 9 - Miscellaneous dangerous compounds	
Air transport		
JN-No. (IATA)	: 3335	

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Proper Shipping Name (IATA)	: Aviation regulated solid, n.o.s.
Class (IATA)	: 9 - Miscellaneous Dangerous Goods
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

2,4-Dichlorophenacyl chloride	CAS No 4252-78-2	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations No additional information available

National regulations

2,4-Dichlorophenacyl chloride (4252-78-2)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
Skin Sens. 1	Skin sensitization Category 1	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H315	Causes skin irritation	
H317	May cause an allergic skin reaction	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. NFPA fire hazard : 1 - Must be preheated before ignition can occur. Ω : 0 - Normally stable, even under fire exposure conditions, NFPA reactivity and are not reactive with water. HMIS III Rating

- : 3 Serious Hazard Major injury likely unless prompt action is taken and medical treatment is given : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids,
- Physical

Flammability

Health

- solids and semi solids having a flash point above 200 F. (Class IIIB)
- : 0 Minimal Hazard Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.