

Safety Data Sheet 2601742 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/16/2020 Version: 1.0

SECTION 1: Identification			
1.1. Identification			
Product form	: Substance		
Substance name	: 4-Chloro-2-fluorophenol		
CAS No	: 348-62-9		
Product code	: 2601-7-42		
Formula	: C6H4CIFO		
Other means of identification	: MFCD00075030		
1.2. Relevant identified uses of the subs		against	
Use of the substance/mixture	: Laboratory chemicals	ayanısı	
	Manufacture of substances Scientific research and developm	ent	
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	<u>n</u>		
1.4. Emergency telephone number			
Emergency number	: (844) 523-4086 (3E Company - A	ccount 10069)	
SECTION 2: Hazard(s) identification			
2.1. Classification of the substance or m	ixture		
Classification (GHS-US)			
Acute Tox. 3 (Oral)H301 - Toxic if swalAcute Tox. 4 (Dermal)H312 - Harmful in crAcute Tox. 4 (Inhalation)H32 - Harmful if inSkin Corr. 1CH314 - Causes sereEye Dam. 1H318 - Causes sereSTOT SE 3H335 - May cause r	ntact with skin naled ere skin burns and eye damage bus eye damage		
Full text of H-phrases: see section 16			
2.2. Label elements			
GHS-US labeling			
Hazard pictograms (GHS-US)	GHS05 GHS06	GHS07	
Signal word (GHS-US)	: Danger		
Hazard statements (GHS-US)	: H227 - Combustible liquid H301 - Toxic if swallowed H312+H332 - Harmful in contact H314 - Causes severe skin burns H335 - May cause respiratory irrit	and eye damage	
Precautionary statements (GHS-US)	 P210 - Keep away from heat/spar P260 - Do not breathe dust/fume/ P264 - Wash skin thoroughly after P270 - Do not eat, drink or smoke P271 - Use only outdoors or in a P280 - Wear protective gloves/print P301+P310 - If swallowed: Imme P301+P330+P331 - If swallowed: P302+P352 - If on skin: Wash with 	ks/open flames/hot surfaces. No smoking gas/mist/vapors/spray r handling when using this product well-ventilated area btective clothing/eye protection/face protection diately call a poison center/doctor/ rinse mouth. Do NOT induce vomiting	. Rinse
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	lense P310 P321 P330 P362 P363 P370 P403 P403 P403 P405	 +P351+P338 - If in eyes: Rinse cautious s, if present and easy to do. Continue rin Immediately call a POISON CENTER Specific treatment (see supplemental Rinse mouth +P364 - Take off contaminated clothing Wash contaminated clothing before re +P378 - In case of fire: Use dry sand, dr +P233 - Store in a well-ventilated place. +P235 - Store in a well-ventilated place. Store locked up Dispose of contents/container to an approximate. 	nsing or doctor/ phys first aid instruct and wash it be suse y chemical or a Keep containe Keep cool	sician tions on this label) fore reuse alcohol-resistant foam to extinguish er tightly closed
2.3. Other hazards				
No additional information available				
2.4. Unknown acute toxicity (GHS L	JS)			
Not applicable				
SECTION 3: Composition/inform	ation on in	gredients		
3.1. Substance				
Substance type	: Mono	p-constituent		
Name		Product identifier	%	Classification (GHS-US)
4-Chloro-2-fluorophenol (Main constituent)		(CAS No) 348-62-9	<= 100	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1C, H314 Eye Dam. 1, H318 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 measure	es			
First-aid measures general	where	se of accident or if you feel unwell, seek e possible). Move the affected personne	I away from the	e contaminated area.
First-aid measures after inhalation	where : Remo respir	e possible). Move the affected personne ove person to fresh air and keep comfort ration. Get immediate medical advice/att	l away from the able for breath rention.	e contaminated area. ing. If not breathing, give artificial
First-aid measures after inhalation	where : Remo respir : Wash medio	e possible). Move the affected personne ove person to fresh air and keep comfort ration. Get immediate medical advice/att n with plenty of soap and water. Remove cal advice/attention.	I away from the able for breath ention. contaminated	e contaminated area. ing. If not breathing, give artificial clothing and shoes. Get immediate
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact	where : Remo respir : Wash medio : Imme prese	e possible). Move the affected personne ove person to fresh air and keep comfort ration. Get immediate medical advice/att n with plenty of soap and water. Remove cal advice/attention. ediately flush eyes thoroughly with water and easy to do. Continue rinsing. Get	I away from the table for breath ention. contaminated for at least 15 t immediate me	e contaminated area. ing. If not breathing, give artificial clothing and shoes. Get immediate minutes. Remove contact lenses, if edical advice/attention.
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	where : Remo respir : Wash medio : Imme prese : Do N	e possible). Move the affected personne ove person to fresh air and keep comfort ration. Get immediate medical advice/att n with plenty of soap and water. Remove cal advice/attention. ediately flush eyes thoroughly with water	I away from the table for breath e contaminated for at least 15 t immediate me g by mouth to a	e contaminated area. ing. If not breathing, give artificial clothing and shoes. Get immediate minutes. Remove contact lenses, if edical advice/attention. an unconscious person. Rinse
First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion 4.2. Most important symptoms and	where : Remo respir : Wash media : Imme prese : Do N mouth effects, both	e possible). Move the affected personne ove person to fresh air and keep comfort ration. Get immediate medical advice/att with plenty of soap and water. Remove cal advice/attention. ediately flush eyes thoroughly with water ent and easy to do. Continue rinsing. Get OT induce vomiting. Never give anything h out with water. Get immediate medical acute and delayed	I away from the table for breath ention. contaminated for at least 15 t immediate me g by mouth to a advice/attentic	e contaminated area. ing. If not breathing, give artificial clothing and shoes. Get immediate minutes. Remove contact lenses, if edical advice/attention. an unconscious person. Rinse on.
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Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release m	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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 auth	norities if product enters sewers or public waters.
6.3. Methods and material for contain	nment and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
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 storage	9
7.1. Precautions for safe handling	
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, fumes, mist, spray, vapors. 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, incl	uding any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Air sensitive. Keep contents under inert gas.
Incompatible materials	Refer to Section 10 on Incompatible Materials.Store in dry, cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

: 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.
: Protective gloves. 29 CFR 1910.138: Hand Protection.
: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
: Wear suitable protective clothing.
: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
: Safety shoes. 29 CFR 1910.136: Foot Protection.
I properties

9.1.	Information	on basic	physical	and che	mical properties
Physical	state			:	Liquid
Appearar	nce			:	Low melting solid.
Color				:	No data available

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Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 20 °C
Freezing point	: No data available
Boiling point	: 103 - 104 (@ 50 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
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	: 1.378 g/ml (@ 25 °C)
Molecular mass	: 146.547 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	
Refractive index	: 1.536 (@ 20 °C)
SECTION 10: Stability and reactivit	y
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
The product is stable at normal handling and st	torage 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 produc	ts
Under normal conditions of storage and use, had fire, see Section 5.	azardous decomposition products should not be produced. Hazardous decomposition products in case of
SECTION 11: Toxicological informa	ation

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.

4-Chloro-2-fluorophenol (348-62-9)	
ATE US (oral)	100.000 mg/kg body weight
ATE US (dermal)	1100.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

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Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
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
12.2. Persistence and degradability
No additional information available
12.3. Bioaccumulative potential
No additional information available
12.4. Mobility in soil
No additional information available
12.5. Other adverse effects
No additional information available

SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. Dispose of contents/container in accordance with licensed collector's sorting instructions. Recycle the material as far as possible.
SECTION 14: Transport informa	tion
Department of Transportation (DOT)	

In accordance with DOT Transport document description

UN-No.(DOT) Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT) DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)

: UN2021 Chlorophenols, liquid, 6.1, III

- : UN2021
- : Chlorophenols, liquid
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 203
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DOT Special Provisions (49 CFR 172.102)	 IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2021
Proper Shipping Name (IMDG)	: CHLOROPHENOLS, LIQUID
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2021
Proper Shipping Name (IATA)	: Chlorophenols, liquid
Class (IATA)	: 6.1 - Toxic Substances
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:

4-Chloro-2-fluorophenol	CAS No 348-62-9	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

No additional information available

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

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Full text of H-phrases:			
	Acute Tox. 3 (Oral)		Acute toxicity (oral) Category 3
	Acute Tox. 4 (Dermal)		Acute toxicity (dermal) Category 4
	Acute Tox. 4 (Inhalation)		Acute toxicity (inhalation) Category 4
	Eye Dam. 1		Serious eye damage/eye irritation Category 1
	Flam. Liq. 4		Flammable liquids Category 4
	Skin Corr. 1C		Skin corrosion/irritation Category 1C
	STOT SE 3		Specific target organ toxicity (single exposure) Category 3
	H227		Combustible liquid
	H301		Toxic if swallowed
	H312		Harmful in contact with skin
	H314		Causes severe skin burns and eye damage
	H318		Causes serious eye damage
	H332		Harmful if inhaled
	H335		May cause respiratory irritation
NFPA health hazard		: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.	
NFPA fire hazard		2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.	
NFPA reactivity		0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
HMIS III Rating			
Health		: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability		: 2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)	
Physical		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)

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.