

SAFETY DATA SHEET

Revision Date 14-Feb-2020

Revision Number 2

1. Identification			
Product Name	4-Chloro-3-fluorophenol		
Cat No. :	A16029		
CAS-No Synonyms	348-60-7 No information available		
Recommended Use Uses advised against Details of the supplier of the safe	Laboratory chemicals. Food, drug, pesticide or biocidal product use. • ty data sheet		
Company Alfa Aesar Thermo Fisher Scientific Chemicals 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech@alfa.com www.alfa.com	, Inc.		
Emergency Telephone Number During normal business hours (Mor After normal business hours, call C	nday-Friday, 8am-7pm EST), call (800) 343-0660. arechem 24 at (866) 928-0789.		
	2. Hazard(s) identification		

Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity	Category 4	
Acute dermal toxicity	Category 4	
Acute Inhalation Toxicity - Dusts and Mists	Category 4	
Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 2	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Respiratory system.	0, 1	

Label Elements

Signal Word Warning

Hazard Statements

Causes skin irritation Causes serious eye irritation May cause respiratory irritation Harmful if swallowed, in contact with skin or if inhaled



Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component		CAS-No	Weight %	
4-Chloro-3-fluorophenol		348-60-7	98	
	4.	First-aid measures		
Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. C medical attention.			er the eyelids, for at least 15 minutes. Get	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation		Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.		
Ingestion	Clean mouth	with water. Get medical attention.		

Most important symptoms and	No information available.			
effects				
Notes to Physician	Treat symptomatically			
	5. Fire-fighting	gmeasures		
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.			
Unsuitable Extinguishing Media	No information available			
Flash Point	110 °C / 230 °F			
Method -	No information available			
Autoignition Temperature	No information available			
Explosion Limits Upper Lower Sensitivity to Mechanical Impac	No data available No data available t No information available			
Sensitivity to Static Discharge	No information available			
Specific Hazards Arising from the C Keep product and empty container av		nition.		
Hazardous Combustion Products Carbon monoxide (CO). Carbon dioxi Protective Equipment and Precauti As in any fire, wear self-contained bre protective gear.	ons for Firefighters			
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental rele	ase measures		
Personal Precautions Environmental Precautions	Ensure adequate ventilation. See Section 12 for additiona	Use personal protective equip Ecological Information.	ment as required.	
Methods for Containment and Clea Up	n Sweep up and shovel into su	itable containers for disposal.		
	7. Handling a	nd storage		
Handling	Avoid contact with skin and e	<u> </u>		
Storage		ventilated place. Refer product perature requirement. Keep co		
8. E	xposure controls /	personal protection	n	
Exposure Guidelines	This product does not contai limitsestablished by the region	n any hazardous materials with n specific regulatory bodies.	occupational exposure	
Engineering Measures	Ensure adequate ventilation, and safety showers are close	especially in confined areas. E to the workstation location.	Ensure that eyewash stations	

Personal Protective Equipment

Eye/face Protection	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.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical propert	ies

	J i i i i i i i i i i
Physical State	Solid
Appearance	Light red
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	49 - 53 °C / 120.2 - 127.4 °F
Boiling Point/Range	102 °C / 215.6 °F @ 10 mmHg
Flash Point	110 °C / 230 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C6 H4 CI F O
Molecular Weight	146.55
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.
Incompatible Materials	Strong oxidizing agents, Strong bases, Strong reducing agents
Hazardous Decomposition Product	ts Carbon monoxide (CO), Carbon dioxide (CO ₂), Chlorine, Gaseous hydrogen fluoride (HF), Fluorine, Hydrogen chloride gas
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
A suite Taulisite	11. Toxicological information

Acute Toxicity

Product Information Component Information	
Toxicologically Synergistic	No information available
Products	
Delayed and immediate effects as v	vell as chronic effects from short and long-term exposure

Irritation No i	nformation available
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Sensitization No informa	ion available
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Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
4-Chloro-3-fluorophen ol	348-60-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effect	S	No information available.					
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory system re None known					
Aspiration hazard		No information available					
Symptoms / effects delayed	,both acute and	nd No information available					
Endocrine Disrupto	r Information	No information available					
Other Adverse Effect	cts	The toxicological p	properties have not	been fully investig	gated.		
		12. Ecol	ogical infor	mation			
Ecotoxicity							

Do not empty into drains.

Persistence and Degradability	Soluble in water Persistence is unlikely based on information available.
Bioaccumulation/Accumulation	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.

Waste Disposal Methods

13. Disposal considerations Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
<u>TDG</u>	Not regulated
<u>IATA</u>	
UN-No	UN2811
Hazard Class	6.1
Packing Group	
IMDG/IMO UN-No	UN2811

Hazard Class 6.1 **Packing Group** Ш

15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
4-Chloro-3-fluorophenol	348-60-7	_	-	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
4-Chloro-3-fluorophenol	348-60-7	-	-	-	-	-	-	-	-

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

16. Other information

Prepared By

Health, Safety and Environmental Department

	Email: tech@alfa.com www.alfa.com			
Revision Date	14-Feb-2020			
Print Date	14-Feb-2020			
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 348-60-7.			

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

