

SAFETY DATA SHEET

Revision Date 19-Jan-2018

Revision Number 3

1. Identification

Product Name Chlorobenzene-d5

AC175320000; AC175320010; AC175320050

CAS-No Synonyms

Cat No. :

3114-55-4 Chlorobenzol-D5; Benzene Chloride-D5; Chlorobenzene-D5

Recommended UseLaboratory chemicals.Uses advised againstNot for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

Emergency Telephone Number

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

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

Flammable liquids Acute Inhalation Toxicity - Vapors

Category 3 Category 4

Label Elements

Signal Word Warning

Hazard Statements Flammable liquid and vapor Harmful if inhaled



Precautionary Statements

Prevention

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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Use only non-sparking tools

Take precautionary measures against static discharge

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

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 (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep cool

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	Component		Weight %				
Chloro(2H5)benzene		3114-55-4	100				
	4.	First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact		nediately with soap and plenty of water whoes. Obtain medical attention.	while removing all contaminated				
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.						
Ingestion	Clean mouth with water. Get medical attention.						
Most important symptoms and effects Notes to Physician	Breathing difficulties Symptoms of overexposure may be headache, dizziness, tiredness nausea and vomiting Treat symptomatically						
	5. Fi	re-fighting measures					
Suitable Extinguishing Media		Carbon dioxide (CO 2). Dry chemical. U themical foam. Cool closed containers e					
Unsuitable Extinguishing Media	No information available						
Flash Point	29 °C / 84.2 °F						
Method -	No information available						

Autoignition Temperature	638.8 °C / 1181.8 °F
Explosion Limits	
Upper	9.6%
Lower	1.8%
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

Hazardous Combustion Products Hydrogen chloride gas Carbon monoxide (CO) Carbon dioxide (CO ₂) Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.							
NFPA Health 2	Flamma 2		Instability 0	Physical hazards N/A			
	6. Acc	idental rele	ase measures				
Personal Precautions Environmental Precau			 Take precautionary meas r or sanitary sewer system 	sures against static discharges.			
Methods for Containm Up	sawdust).	Keep in suitable, clo		el, acid binder, universal binder, al. Remove all sources of ignition.			
	7.	Handling ar	id storage				
Handling	provided w non-sparki	rith appropriate exh ng tools. Keep awa	aust ventilation. Use explos	or spray mist. Use only in area sion-proof equipment. Use only rfaces and sources of ignition.			
Storage	from heat a	and sources of ignit	• •	ainer tightly closed. Keep away re under an inert atmosphere. place.			
	•		ersonal protecti				
Exposure Guidelines			any hazardous materials v n specific regulatory bodies	with occupational exposure			
Engineering Measures		Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment.					
Personal Protective Ec	quipment_						
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 pro	tection Wear appr	Wear appropriate protective gloves and clothing to prevent skin exposure.					
Respiratory Protect	tion No protect	ve equipment is ne	eded under normal use co	nditions.			

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. P	hysical and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	bitter almond
Odor Threshold	No information available
рН	No information available
Melting Point/Range	-46 °C / -50.8 °F
Boiling Point/Range	130 - 130 °C / 266 - 266.7 °F
Flash Point	29 °C / 84.2 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	9.6%
Lower	1.8%
Vapor Pressure	12 mmHg @ 25 °C
Vapor Density	3.9
Specific Gravity	1.107 @ 4°C
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	638.8 °C / 1181.8 °F
Decomposition Temperature	No information available
Viscosity	No information available
Molecular Formula	C6 CI D5
Molecular Weight	117.6

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions. Hygroscopic.		
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition. Incompatible products.		
Incompatible Materials	Bases		
Hazardous Decomposition Products Hydrogen chloride gas, Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as	No information available well as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Chloro(2H5)benzene	3114-55-4	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effect	s	No information available.				
Developmental Effe	cts	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expos STOT - repeated exp		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	,both acute and	nd Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomi				ea and vomiting
Endocrine Disruptor	r Information	No information available				
Other Adverse Effect	ets	The toxicological properties have not been fully investigated.				
	12. Ecological information					

Ecotoxicity

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment.

Persistence and Degradability	No information available
Bioaccumulation/ Accumulation	No information available.
Mobility	No information available.

	13. Disposal considerations
Waste Disposal Methods	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	
TDG	Not regulated	
UN-No	1134	
Proper Shipping Name	CHLOROBENZENE	
Hazard Class	3	
Packing Group	111	
IMDG/IMO		
UN-No	1134	
Proper Shipping Name	CHLOROBENZENE	
Hazard Class	3	
Packing Group	III	
15. Regulatory information		

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Chloro(2H5)benzene	-	-	-	221-482-0	-		-	-	-	-	-
Legend:											

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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 Not applicable	n Administration
CERCLA	Not applicable

U.S. State Right-to-Know Not applicable Regulations

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

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	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).
Disclaimer	

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End of SDS