

SAFETY DATA SHEET

Revision Date 18-Jan-2018

Revision Number 3

Product Name 2-Chloro-5-nitrobenzoic acid				
Cat No. :	AC154690000; AC154690050; AC154691000; AC154695000			
CAS-No Synonyms	2516-96-3 No information available			
Recommended Use Jses advised against Details of the supplier of the	Laboratory chemicals. Food, drug, pesticide or biocidal product use. e safety data sheet			
<u>Company</u> Fisher Scientific Dne Reagent Lane Fair Lawn, NJ 07410 Fel: (201) 796-7100	Acros Organics One Reagent Lane Fair Lawn, NJ 07410			
Emergency Number US: 001-2	ber 100-ACROS-01 / Europe call: +32 14 57 52 11 201-796-7100 / Europe: +32 14 57 52 99 800-424-9300 / Europe: 001-703-527-3887			
	2. Hazard(s) identification			
Classification This chemical is considered h	azardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)			

Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



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

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 %		
Benzoic acid, 2-chloro-5-nitro-		2516-96-3	> 99		
	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	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 breathing is difficult, give oxygen 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-fightin	g measures					
Suitable Extinguishing Media	Water spray. Carbon dioxide	e (CO 2). Dry chemical. Alcohol res	stant foam.				
Unsuitable Extinguishing Media	No information available						
Flash Point Method -	No information available No information available						
Autoignition Temperature Explosion Limits	No information available						
Upper	No data available						
Lower	No data available						
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available						
Specific Hazards Arising from the C Keep product and empty container awa	hemical ay from heat and sources of i	gnition.					
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monox Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters		equivalent) and full				
NFPA Health 2	Flammability 0	Instability 0	Physical hazards N/A				
	6. Accidental rele	ease measures					
Personal Precautions	Ensure adequate ventilation	. Use personal protective equipme	nt as required.				
Environmental Precautions	See Section 12 for additiona	al Ecological Information.	•				
Environmental Precautions Methods for Containment and Clean Up							
Methods for Containment and Clean		uitable containers for disposal.					
Methods for Containment and Clean	Sweep up and shovel into s	uitable containers for disposal.					
Methods for Containment and Clean Up	Sweep up and shovel into s 7. Handling a Avoid contact with skin and Keep in a dry, cool and well	uitable containers for disposal.	ecification and/or product				
Methods for Containment and Clean Up Handling Storage 8. E>	5 Sweep up and shovel into s 7. Handling a Avoid contact with skin and Keep in a dry, cool and well label for specific storage ten posure controls /	uitable containers for disposal. nd storage eyes. Do not breathe dust. eventilated place. Refer product spin personal protection	ecification and/or product iner tightly closed.				
Methods for Containment and Clean Up Handling Storage	7. Handling a Avoid contact with skin and Keep in a dry, cool and well label for specific storage ten controls / This product does not conta	uitable containers for disposal. nd storage eyes. Do not breathe dust. -ventilated place. Refer product spon perature requirement. Keep contain	ecification and/or product iner tightly closed.				
Methods for Containment and Clean Up Handling Storage 8. E>	A Sweep up and shovel into s 7. Handling a Avoid contact with skin and Keep in a dry, cool and well label for specific storage ten COSURE CONTROLS / This product does not conta limitsestablished by the reginner Ensure adequate ventilation	uitable containers for disposal. nd storage eyes. Do not breathe dust. eventilated place. Refer product spon personal protection in any hazardous materials with oc	ecification and/or product iner tightly closed.				
Methods for Containment and Clean Up Handling Storage <u>8. Exposure Guidelines</u>	A Sweep up and shovel into s 7. Handling a Avoid contact with skin and Keep in a dry, cool and well label for specific storage ten COSURE CONTROLS / This product does not conta limitsestablished by the reginner Ensure adequate ventilation	uitable containers for disposal. nd storage eyes. Do not breathe dust. -ventilated place. Refer product spen personal protection in any hazardous materials with oc on specific regulatory bodies. , especially in confined areas. Ens	ecification and/or product iner tightly closed.				

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard
EN166.Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State Appearance Odor **Odor Threshold** pН Melting Point/Range Boiling Point/Range Flash Point **Evaporation Rate** Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density **Specific Gravity** Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

Powder Solid Yellow Odorless No information available No information available 164 - 168 °C / 327.2 - 334.4 °F No information available No information available Not applicable No information available No data available No data available No information available Not applicable No information available No information available No data available No information available No information available Not applicable C7 H4 CI N O4 201.57

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			
Hazardous Decomposition Product	s Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO ₂), Hydrogen chloride gas			
Hazardous Polymerization	No information available.			
Hazardous Reactions	None under normal processing.			

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product				
Component Information Toxicologically Synergistic	No information available				
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure					

Irritation No informa	ation available
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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			
Mutagenic Effects No information available Reproductive Effects No information available. Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure Respiratory system STOT - repeated exposure No information available. Stort - repeated exposure Respiratory system Aspiration hazard No information available Symptoms / effects,both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated. Ecotoxicity Do not empty into drains. Persistence and Degradability Insoluble in water Bioaccumulation/Accumulation No information available. Mobility Is not likely mobile in the environment due its low water solubility. 13. Disposal considerations Chemical waste generators must determine whether a discarded chemical is classiff hazardous waste. Chemical waste generators must also consult local, regional, and	,	2516-96-3	Not listed	Not listed	Not listed	Not listed	Not listed			
Developmental Effects No information available. Teratogenicity No information available. STOT - single exposure STOT - repeated exposure Respiratory system None known Aspiration hazard No information available Symptoms / effects,both acute and delayed No information available Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated. Ecotoxicity Do not empty into drains. Insoluble in water Bioaccumulation/ Accumulation No information available. Mobility Is not likely mobile in the environment due its low water solubility. Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classiff hazardous waste. Chemical waste generators must determine waste generators must determine whether a discarded chemical, and			No information available							
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Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classificity hazardous waste. Chemical waste generators must also consult local, regional, and	Mobility		Is not likely mobile in the environment due its low water solubility.							
hazardous waste. Chemical waste generators must also consult local, regional, and			13. Dispo	sal conside	erations					
	Waste Disposal Me	ihods	Chemical waste ge hazardous waste.	enerators must det Chemical waste g	ermine whether a generators must als	so consult local, re	gional, and			
14. Transport information				nsport infori	mation					
DOT Not regulated										
_ TDG Not regulated Not regulated			Not regulated							
IMDG/IMO_ Not regulated										

tot rogai	100	
15.	Regulatory	information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Benzoic acid, 2-chloro-5-nitro-	2516-96-3	Х	ACTIVE	-

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
Benzoic acid, 2-chloro-5-nitro-	2516-96-3	-	Х	219-739-7	Х	Х	Х	Х	-
U.S. Federal Regulations									
SARA 313	Not app	licable							
SARA 311/312 Hazard Categori	ies See sec	tion 2 for r	more infor	mation					
CWA (Clean Water Act)	Not app	licable							
Clean Air Act	Not app	licable							
OSHA - Occupational Safety and Health Administration	I Not app	licable							
CERCLA	Not app	licable							
California Proposition 65	This pro	duct does	not conta	in any Prop	osition 65	chemicals.			
U.S. State Right-to-Know Regulations	Not app	licable							
U.S. Department of Transporta Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	tion N N N								
U.S. Department of Homeland Security	This pro	duct does	not conta	in any DHS	chemicals	5.			
Other International Regulations	<u>s</u>								
Mexico - Grade	No infor	mation ava	ailable						

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	18-Jan-2018 18-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	

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

End of SDS