

Revision number: 2 Revision date: 10/06/2014

1. IDENTIFICATION

Product name: Product code: 2-Chloro-4-nitrophenol C0227

Product use: Restrictions on use:

Company:

TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com

2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:

Acute Toxicity - Oral [Category 4] Skin Corrosion/Irritation [Category 2] Eye Damage/Irritation [Category 2A]

Signal word:

Warning!

Hazard Statement(s):

Causes serious eye irritation Causes skin irritation Harmful if swallowed

Pictogram(s) or Symbol(s):



Precautionary Statement(s): [Prevention]

[Response]

[Storage] [Disposal] Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. Wear protective gloves. Wear eye and face protection.

If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 or attention. None

Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3. (See Section 13)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components: Percent: Substance 2-Chloro-4-nitrophenol >98.0%(GC)(T)

For laboratory research purposes. Not for drug or household use.

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SAFETY DATA SHEET

Emergency telephone number:

TCI America (8:00am - 5:00pm) PST

Chemical Emergencies:

Transportation Emergencies:

+1-703-527-3887 (International) Responsible department:

Environmental Health Safety and Security

+1-503-286-7624

Chemtrec 24-Hour +1-800-424-9300 (U.S.A.)

+1-503-286-7624

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2-Chloro-4-nitrophenol	TCI AMERICA	Page 2 of 5
3. COMPOSITION/INFORMATION	ON INGREDIENTS	
CAS Number:	619-08-9	
Molecular Weight: Chemical Formula:	173.55 C ₆ H ₄ CINO ₃	
Chemical Formula.	C6H4CINO3	
4. FIRST-AID MEASURES		
Inhalation: Skin contact:	Call a poison center or doctor if you feel unwell. Move victim to fresh air is not breathing. Administer oxygen if breathing is difficult. Keep victim w symptomatically and supportively. Ensure that medical personnel are av take precautions to protect themselves. Call a poison center or doctor if you feel unwell. Remove and wash cont	varm and quiet. Treat vare of the material(s) involved and
	Remove and isolate contaminated clothing and shoes. In case of contact flush skin with running water for at least 20 minutes. Treat symptomatica medical personnel are aware of the material(s) involved and take precate	ct with substance, immediately ally and supportively. Ensure that
Eye contact:	IMMEDIATELY flush eyes with running water for at least 15 minutes, ke material may irritate or burn eyes. Call emergency medical service. Mov remove any contact lenses. Keep victim warm and quiet. Treat symptom exposure to substance may be delayed. Ensure that medical personnel involved and take precautions to protect themselves.	eping eyelids open. Contact with e victim to fresh air. Check for and natically and supportively. Effects of
Ingestion:	Harmful if swallowed. Do not induce vomiting with out medical advice. If immediately and show the container or label. Do not use mouth-to-mout substance; give artificial respiration with the aid of a pocket mask equipp proper respiratory medical device. Loosen tight clothing such as a collar vomits place them in the recovery position so that vomit will not reenter Keep victim warm and quiet. Treat symptomatically and supportively. Er aware of the material(s) involved and take precautions to protect themse	th method if victim ingested the ped with a one-way valve or other r, tie, belt or waistband. If a person the mouth and throat. Rinse mouth. Insure that medical personnel are
Symptoms/effects:		
Acute: Delayed:	Redness. No data available	
Immediate medical attention:	WARNING: It might be hazardous to the person providing aid to give mo the inhaled material is harmful. If breathing has stopped, perform artificia treatment according to the nature of the injury. Ensure that medical pers involved and take precautions to protect themselves.	al respiration. Use first aid
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media:	Dry chemical, CO_2 , sand, earth, water spray or regular foam Consult with attempting large scale fire fighting operations.	th local fire authorities before
Specific hazards arising from the che Hazardous combustion products: Other specific hazards:	mical These products include: Carbon oxides Nitrogen oxides Halogenated co WARNING: Highly toxic HCl gas is produced during combustion.	ompounds
heated. Move containers from fire area Special protective equipment for fire Wear positive pressure self-contained b		s limited protection in fire situations
6. ACCIDENTAL RELEASE MEAS	SURES	
Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and damaged containers or spilled material unless wearing appropriate prote	ective clothing (Section 8). Warn
Personal protective equipment:	unnecessary personnel to move away. Stop leak if you can do it without Isolate the hazard area and deny entry to unnecessary and unprotected Wear eye protection (splash goggles) and face protection (full length fac respirator. Be sure to use a MSHA/NIOSH approved respirator or equiva (nitrile).	risk. Ensure adequate ventilation. personnel. ce shield). Lab coat. Dust
Emorgonov procedureci	(initia). Provent dust cloud, in case of a spill and/or a leak, always shut off any s	auroad of ignition wantilate the

Emergency procedures: Prevent dust cloud. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and excercise caution. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements or confined areas; dike if needed.

6. ACCIDENTAL RELEASE MEASURES

Methods and materials for containment and cleaning up:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Ventilate the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. **Environmental precautions:**

Keep away from living quarters. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements or confined areas; dike if needed.

Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Good general ventilatic should be sufficient to control airborne levels. Keep container dry. Handle and open container with care.
	Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink, or smoke Keep away from sources of ignition.
Conditions for safe storage:	Keep only in the original container in a cool well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods.
Storage incompatibilities:	Store away from oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: No data available

Appropriate engineering controls:

Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.

Personal protective equipment	
Respiratory protection:	Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.
Hand protection:	Nitrile gloves.
Eye protection:	Safety glasses.
Skin and body protection:	Lab coat.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Form: Color: Odor: Odor threshold:	Solid Crystal - Powder White - Pale yellow red No data available No data available			
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:	110°C (230°F) No data available No data available No data available No data available No data available	pH: Vapor pressure: Vapor density: Dynamic Viscosity:		No data available No data available No data available No data available
Partition coefficient: n-octanol/water (log P _{ow})	No data available	Evaporation rate: (Butyl Acetate = 1)		No data available
Flash point: Flammability (solid, gas):	No data available No data available	Autoignition temperatur Flammability or explosi Lower: No		No data available ble
		Upper: No	o data availa	ble

Solubility(ies): Water: Insoluble Soluble: Methanol, Ether, Chloroform

10. STABILITY AND REACTIVITY

Reactivity: Chemical Stability: Possibility of Hazardous Reactions: Conditions to avoid: Incompatible materials: Hazardous Decomposition Products: Not Available. Stable under recommended storage conditions. (See Section 7) No hazardous reactivity has been reported. Avoid excessive heat and light. Oxidizing agents No data available **TCI AMERICA**

11. TOXICOLOGICAL INFORMATION

RTECS Number: SK5075000

Acute Toxicity: orl-rat LD50:900 mg/kg		ipr-mus LD50:8	0 mg/kg	
skn-rbt LDLo:2 g/kg				
Skin corrosion/irritation: No data available				
Serious eye damage/irritation: No data available				
Respiratory or skin sensitization: No data available				
Germ cell mutagenicity: No data available				
Carcinogenicity:				
No data available				
IARC: No data available	NTP:	No data available	OSHA:	No data available
Reproductive toxicity: No data available				
Routes of Exposure: Symptoms related to exposure: Overexposure may result in serious illness blistering. Skin contact may result in redness Potential Health Effects: Skin and eye contact may result in irritation Target organ(s):	or death. Skin contac ss, pain or dry skin. E	ntact, Ingestion, Skin contac et may result in inflammation ye contact may result in red	; characterized by itchir	ng, scaling, reddening, or occasionally
12. ECOLOGICAL INFORMATION				
Ecotoxicity Fish: Crustacea:	No data available No data available			
Algae:	No data available			
Persistence and degradability: Bioaccumulative potential (BCF): Mobility in soil: Partition coefficient: n-octanol/water (log Pow) Soil adsorption (Koc): Henry's Law: constant (PaM ³ /mol)	No data available No data available No data available No data available No data available No data available			
13. DISPOSAL CONSIDERATIONS	De suele te musees			mply with Endoral State and Local

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Dispose of as unused product. Do not re-use empty containers.
Observe all federal, state and local regulations when disposing of the substance.

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14. TRANSPORT INFORMATION

Non-hazardous for transportation.
Non-hazardous for transportation.
Non-hazardous for transportation.

15. REGULATORY INFORMATION

Toxic Substance Control Act (TSCA 8b.):

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations

	ations			
CERCLA Hazardo SARA 313: SARA 302:		d Reportable Quantity: Not Listed Not Listed		
State Regulations	<u>i</u>			
State Right-to-Kno	ow			
Massachusetts New Jersey Pennsylvania California Proposition 65:		Not Listed Not Listed Not Listed Not Listed		
Other Information	I			
NFPA Rating:	-	HMIS	Classification:	
Health: Flammability: Instability:	2 0 0	F	lealth: Flammability: Physical:	2 0 0
International Inve	ntories			
WHMIS hazard cla	Iass: D2A: Materials causing other toxic effects. (Very Toxic D2B: Materials causing other toxic effects. (Toxic)			

210-578-8

EC-No:

16. OTHER INFORMATION

Revision date: 10/06/2014

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TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective gogles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.