

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

# 1. IDENTIFICATION

Methyl 2-Chloro-5-nitrobenzoate
C1732

**TCI AMERICA** 

SAFETY DATA SHEET

Product use: Restrictions on use:

Product name: Product code:

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

Emergency telephone number:
Chemical Emergencies:
TCI America (8:00am - 5:00pm) PST
+1-503-286-7624
Transportation Emergencies:
Chemtrec 24-Hour
+1-800-424-9300 (U.S.A.)
+1-703-527-3887 (International)
Responsible department:
TCI America
Environmental Health Safety and Security +1- 503-286-7624

# 2. HAZARD(S) IDENTIFICATION

OSHA Haz Com: CFR 1910.1200:	Eye Damage/Irritation [Category 2B]
Signal word:	Warning!
Hazard Statement(s):	Causes eye irritation
Pictogram(s) or Symbol(s):	None
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Wash hands and face thoroughly after handling. 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 None

Hazards not otherwise classified: [HNOC] Causes mild skin irritation.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: Components:	Substance Methyl 2-Chloro-5-nitrobenzoate
Percent:	>98.0%(GC)
CAS Number:	6307-82-0
Molecular Weight:	215.59
Chemical Formula:	C <sub>8</sub> H <sub>6</sub> CINO <sub>4</sub>
Synonyms:	2-Chloro-5-nitrobenzoic Acid Methyl Ester

# 4. FIRST-AID MEASURES

Inhalation:

Call a poison center or doctor if you feel unwell. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

4. FIRST-AID MEASURES	
Skin contact: Eye contact:	If skin irritation occurs get medical advice/attention. Remove and wash contaminated clothing before re- use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with
	material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion:	Do not induce vomiting with out medical advice. If swallowed, seek medical advice immediately and show the container or label. Loosen tight clothing such as a collar, tie, belt or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/effects:	
Acute: Delayed:	Redness. No data available
Immediate medical attention:	If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media:	Dry chemical, $CO_2$ , sand, earth, water spray or regular foam Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the chem Hazardous combustion products: Other specific hazards:	ical These products include: Carbon oxides Nitrogen oxides Halogenated compounds WARNING: Highly toxic HCI gas is produced during combustion.
heated. Move containers from fire area if y Special protective equipment for fire-fig	jhters:
	athing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations tions. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may

Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Avoid contact with skin, eyes, and clothing. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing (Section 8). Warn unnecessary personnel to move away. Stop leak if you can do it without risk. Ensure adequate ventilation. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Personal protective equipment:	Wear eye protection (splash goggles) and face protection (full length face shield). Lab coat. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Wear protective gloves (nitrile).
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.

#### Methods and materials for containment and cleaning up:

7. HANDLING AND STORAGE

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:** 

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. Avoid contact with skin and eyes. Good general ventilation 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.

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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 / PI	ERSONAL PROTECTION		
Exposure limits:	No data available		
Appropriate engineering controls: Good general ventilation should be s fountains should be provided in areas engineering/laboratory practices whe	ufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash s where there is any possibility that workers could be exposed to the substance. Follow safe industrial		
Appropriate engineering controls: Good general ventilation should be s fountains should be provided in areas engineering/laboratory practices whe Personal protective equipment	ufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash s where there is any possibility that workers could be exposed to the substance. Follow safe industrial n handling any chemical.		
Appropriate engineering controls: Good general ventilation should be s fountains should be provided in areas engineering/laboratory practices whe	ufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash s where there is any possibility that workers could be exposed to the substance. Follow safe industrial		
Appropriate engineering controls: Good general ventilation should be s fountains should be provided in areas engineering/laboratory practices whe Personal protective equipment Respiratory protection:	ufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash s where there is any possibility that workers could be exposed to the substance. Follow safe industrial n handling any chemical. Dust respirator. Be sure to use a MSHA/NIOSH approved respirator or equivalent.		

#### Physical state (20°C): Solid Form: Crystal - Powder Very pale yellow - Pale yellow green Color: No data available Odor: Odor threshold: No data available Melting point/freezing point: 70°C (158°F) pH: No data available No data available **Boiling point/range:** Vapor pressure: No data available No data available No data available **Decomposition temperature:** Vapor density: **Relative density:** No data available **Dynamic Viscosity:** No data available Kinematic Viscosity: No data available Partition coefficient: No data available No data available **Evaporation rate:** n-octanol/water (log Pow) (Butyl Acetate = 1) No data available Flash point: Autoignition temperature: No data available Flammability or explosive limits: Flammability (solid, gas): No data available Lower: No data available Upper: No data available

Solubility(ies):

# **10. STABILITY AND REACTIVITY**

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

# 11. TOXICOLOGICAL INFORMATION

RTECS Number: DG5426500

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Acute Toxicity: orl-rat LD50:5360 mg/kg		
Skin corrosion/irritation: skn-rbt 500 mg/24H MLD		
Serious eye damage/irritation: eye-rbt 500 mg/24H MLD		
<b>Respiratory or skin sensitization:</b> No data available		
Germ cell mutagenicity: No data available		
Carcinogenicity:		
No data available		
IARC: No data available	NTP: No data available OSHA: No data availa	ble
<b>Reproductive toxicity:</b> No data available		
Routes of Exposure:	Inhalation, Eye contact, Ingestion, Skin contact.	
	Skin contact may result in redness, pain or dry skin.	
Potential Health Effects: Skin and eye contact may result in irritation		
Target organ(s):	No data available	
12. ECOLOGICAL INFORMATION		
Ecotoxicity		
Fish: Crustacea:	No data available No data available	
Algae:	No data available	
Persistence and degradability:	No data available	
Bioaccumulative potential (BCF): Mobillity in soil:	No data available No data available	
Partition coefficient:	No data available	
n-octanol/water (log P <sub>ow</sub> ) Soil adsorption (Koc):	No data available	
Henry's Law: constant (PaM³/mol)	No data available	
13. DISPOSAL CONSIDERATIONS		
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federa	al, State and Local
	rules and regulations. You may be able to dissolve or mix material with a combustible chemical incinerator equipped with an afterburner and scrubber system. This section i	
	assistance but does not replace these laws, nor does compliance in accordance with t	his section ensure
	regulatory compliance according to the law. US EPA guidelines for Identification and L Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the	
Disposal of container:	water ways, or the soil. Dispose of as unused product. Do not re-use empty containers.	
Other considerations:	Observe all federal, state and local regulations when disposing of the substance.	
14. TRANSPORT INFORMATION		
DOT (US)	Non-hazardous for transportation.	
IATA	Non-hazardous for transportation.	
IMDG	Non-hazardous for transportation.	

# **15. REGULATORY INFORMATION**

#### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

# **US Federal Regulations**

### CERCLA Hazardous substance and Reportable Quantity: SARA 313: Not Listed SARA 302: Not Listed

## **State Regulations**

#### State Right-to-Know

Massachusetts	Not Listed
New Jersey	Not Listed
Pennsylvania	Not Listed
California Proposition 65:	Not Listed

#### Other Information

#### **NFPA Rating:**

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Health:	1	Health:	1
Flammability:	0	Flammability:	0
Instability:	0	Physical:	0
International Inve	ntories		
WHMIS hazard class:		D2B: Materials causing other toxic effects. (To	xic)

# **16. OTHER INFORMATION**

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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.

**HMIS Classification:**