

Revision number: 3 Revision date: 10/17/2016

1. IDENTIFICATION

Product name: Product code: 2,3-Dichloronitrobenzene D0386

For laboratory research purposes.

Not for drug or household use.

TCI AMERICA

SAFETY DATA SHEET

Product use: Restrictions on use:

Company:

CI 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] Acute Toxicity - Dermal [Category 3] Skin Corrosion/Irritation [Category 2] Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 2] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

Danger!

Signal word:

Hazard Statement(s):

Causes skin irritation Harmful if swallowed Toxic in contact with skin Toxic to aquatic life Toxic to aquatic life with long lasting effects Causes damage to: Nervous System May cause damage to organs: Liver Blood Kidney through prolonged or repeated exposure.

Emergency telephone number:

Transportation Emergencies:

+1-703-527-3887 (International)

Environmental Health Safety and Security

Responsible department:

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

Chemical Emergencies:

+1-503-286-7624

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

TCI America

+1-503-286-7624

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 and protective clothing. Wear protective gloves. Do not breathe dusts or mists. If swallowed: Immediately call a poison center or doctor. Rinse mouth. If on skin: Wash with plenty of water. Call a poison center or doctor if you feel unwell. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If exposed: Call a poison center or doctor. Get medical advice or attention if you feel unwell.

Store locked up.

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)

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2. HAZARD(S) IDENTIFICATION

3. COMPOSITION/INFORMATION	I ON INGREDIENTS
Substance/Minteres	Substance
Substance/Mixture: Components:	Substance 2,3-Dichloronitrobenzene
Percent:	>99.0%(GC)
CAS Number:	3209-22-1
Molecular Weight:	192.00
Chemical Formula:	C ₆ H ₃ Cl ₂ NO ₂
Chemical Formula.	061130121102
4. FIRST-AID MEASURES	
Inhalation:	Immediately call a poison center or doctor. Effects of exposure (inhalation) to substance may be delayed. Inhalation of vapors or contact with substance will result in contamination and potential harmful effects. 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.
Skin contact:	Immediately call a poison center or doctor. Effects of exposure (skin contact) to substance may be delayed. Remove and wash contaminated clothing before re-use. Remove and isolate contaminated clothing and shoes. 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.
Eye contact:	If this chemical contacts the eyes, immediately wash (irrigate) the eyes with large amounts of water, occasionally lifting the lower and upper eyelids. Contact with material may irritate or burn eyes. If eye irritation persists get medical advice/attention. 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:	Harmful if swallowed. Do not induce vomiting with out medical advice. Effects of exposure (ingestion) to substance may be delayed. Call a physician or Poison Control Center immediately. Do not use mouth-to-mouth method if victim ingested the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. 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:	WARNING: It might be dangerous to the person providing aid to give mouth-to-mouth respiration, because the inhaled material is toxic. 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 or water spray. Consult with local fire authorities before attempting large scale fire fighting operations.
Specific hazards arising from the cho Hazardous combustion products: Other specific hazards:	emical These products include: Carbon oxides Nitrogen oxides Halogenated compounds WARNING: Highly toxic HCl gas is produced during combustion.
heated. Move containers from fire area Special protective equipment for fire Wear positive pressure self-contained b	

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

6. ACCIDENTAL RELEASE MEAS	URES
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. Do not clean-up or dispose except under supervision of a specialist. 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:

ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. 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. Dike far ahead of spill; use dry sand to contain the flow of material. Ventilate the area.

Environmental precautions:

Keep away from living quarters. Environmental hazard. Do not let product enter drains. 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.

7. HANDLING AND STORAGE	
Precautions for safe handling:	Avoid inhalation of vapor or mist. Do not ingest. Avoid contact with skin and eyes. Avoid contact with skin. 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.
Conditions for safe storage:	Store locked up. Keep containers tightly closed 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.

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:

Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic Viscosity:

Partition coefficient: n-octanol/water (log Pow) Solid Crystal - Powder Very pale yellow - Pale yellow green No data available No data available

62°C (144°F) 257°C (495°F) No data available No data available No data available 3.05

5.05

pH: Vapor pressure: Vapor density: Dynamic Viscosity:

Evaporation rate: (Butyl Acetate = 1) No data available 0.22Pa/25°C 6.6 No data available

No data available

2,3-Dichloronitrobenzene

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9. PHYSICAL AND CH Flash point:		C (253°F)	Autoignition t	empera	ture: 4	79°C (894°F)
Flammability (solid, gas)		ata available	Flammability	or explo		
			Uppe	er:	No data availabl	e
	ole (62.4mg/L, 20 r, Acetone, Ethan					
10. STABILITY AND F	REACTIVITY					
Reactivity: Chemical Stability: Possibility of Hazardous Conditions to avoid: Incompatible materials: Hazardous Decompositi			0	ns. (See	Section 7)	
11. TOXICOLOGICAL	INFORMATIO	N				
RTECS Number: CZ524	0000					
Acute Toxicity: No data available						
Skin corrosion/irritation No data available	:					
Serious eye damage/irri t No data available	tation:					
Respiratory or skin sens No data available	sitization:					
Germ cell mutagenicity: mmo-sat 3333 ug/plate (-{						
Carcinogenicity:						
No data available						
IARC: No data av	vailable	NTP:	No data available		OSHA:	No data available
Reproductive toxicity: No data available						
Routes of Exposure: Symptoms related to ex			ontact, Ingestion, Skin conta			
blistering. Skin contact ma Potential Health Effects: Skin and eye contact may Farget organ(s): Causes damage to: Nervo	ay result in rednes result in irritation ous System	ss, pain or dry skin.	ct may result in inflammation		cterized by itchin	g, scaling, reddening, or occasional
12. ECOLOGICAL INF	ORMATION					
Ecotoxicity						
Fish: Crustacea: Algae:		No data available No data available No data available				

Persistence and degradability:4% (by BOD), 5% (by HPLC)Bioaccumulative potential (BCF):43 - 75(conc. 0.1 mg/L), 45 - 83(conc. 0.01 mg/L)Mobillity in soil:No data available

No data available

Algae:

12. ECOLOGICA Partition coefficie	AL INFORMATIO			
Partition coefficien n-octanol/water (I Soil adsorption (P Henry's Law: constant (PaM ³ /m	log P₀w) ⟨oc):	3.05 No data availab No data availabl		
13. DISPOSAL	CONSIDERATION			
Disposal of produ Disposal of conta Other considerati	iner:	rules and regula chemical inciner assistance but o regulatory comp Waste are listed water ways, or t Dispose of as u	titions. You may be able to disso rator equipped with an afterburn loes not replace these laws, nor liance according to the law. US I in 40 CFR Parts 261. The prod he soil. nused product. Do not re-use er	r's responsibility to comply with Federal, State and Loc lve or mix material with a combustible solvent and burr er and scrubber system. This section is intended to pro does compliance in accordance with this section ensu EPA guidelines for Identification and Listing of Hazard uct should not be allowed to enter the environment, dra npty containers. when disposing of the substance.
14. TRANSPOR	T INFORMATION	1		
DOT (US) UN number: UN2811	Proper Shippin Toxic solids, org		Class or Division: 6.1 Toxic material.	Packing Group:
IATA UN number: UN2811	Proper Shippin Toxic solid, oxid		Class or Division: 6.1 Toxic material.	Packing Group:
IMDG UN number:	Proper Shippin		Class or Division: 6.1 Toxic material.	Packing Group:
UN2811	Toxic solid, orga	anic, n.o.s.		
UN2811 EmS number:		anic, n.o.s. F-A, S-A		
EmS number:		F-A, S-A		
EmS number: <i>15. REGULATO</i> Toxic Substance	Toxic solid, orga DRY INFORMATIO Control Act (TSCA	F-A, S-A		
EmS number: <i>15. REGULATO</i> Toxic Substance	Toxic solid, orga DRY INFORMATIO Control Act (TSCA I the EPA Toxic Sub	F-A, S-A DN 8b.):		
EmS number: 15. REGULATO Toxic Substance This product is ON US Federal Regul	Toxic solid, orga PRY INFORMATIO Control Act (TSCA I the EPA Toxic Sub lations bus substance and l :	F-A, S-A DN 8b.):		
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313: SARA 302:	Toxic solid, orga PRY INFORMATIO Control Act (TSCA I the EPA Toxic Sub lations pus substance and I :	F-A, S-A DN 8b.): Instances Control Act (TS Reportable Quantity: Not Listed		
EmS number: 15. REGULATO Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313:	Toxic solid, orga PRY INFORMATIO Control Act (TSCA I the EPA Toxic Sub lations bus substance and I : :	F-A, S-A DN 8b.): Instances Control Act (TS Reportable Quantity: Not Listed		
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313 SARA 302 State Regulations	Toxic solid, orga	F-A, S-A DN 8b.): Instances Control Act (TS Reportable Quantity: Not Listed		
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON <u>US Federal Regul</u> CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kn Massachu New Jerse Pennsylva	Toxic solid, orga	F-A, S-A 8b.): Istances Control Act (TS Reportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed		
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON US Federal Regul CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kn Massachu New Jerse Pennsylva California Propos	Toxic solid, orga	F-A, S-A 8b.): Istances Control Act (TS Reportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed		
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON <u>US Federal Regul</u> CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kn Massachu New Jerse Pennsylva California Propos Other Information	Toxic solid, orga	F-A, S-A 8b.): Istances Control Act (TS Reportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	SCA) inventory. HMIS Classification: Health: Flammability:	2 1 0
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON <u>US Federal Regul</u> CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kn Massachu New Jerse Pennsylva California Propos Other Informatior NFPA Rating: Health: Flammability:	Toxic solid, orga	F-A, S-A 8b.): Istances Control Act (TS Reportable Quantity: Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed	SCA) inventory. HMIS Classification: Health: Flammability:	2
EmS number: <u>15. REGULATO</u> Toxic Substance This product is ON <u>US Federal Regul</u> CERCLA Hazardo SARA 313: SARA 302: State Regulations State Right-to-Kn Massachu New Jerse Pennsylva California Propos Other Information NFPA Rating: Health: Flammability: Instability:	Toxic solid, orga	F-A, S-A	SCA) inventory. HMIS Classification: Health: Flammability:	2 1 0 voxic effects. (Toxic) / Toxic)

16. OTHER INFORMATION

Revision date: 10/17/2016 Revision number: 3

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 goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.