

Safety Data Sheet 2716501

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 04/15/2016 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: 4-(Trichloromethyl)benzoyl chloride
CAS No	: 14815-86-2
Product code	: 2716-5-01
Formula	: C8H4CI4O
Synonyms	: p-(Trichloromethyl)benzoyl chloride; alpha, alpha, alpha-Trichloro-p-toluoyl chloride
Other means of identification	: MFCD25460286
1.2. Relevant identified uses of the su	ubstance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ty data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of America T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs.	
1.4. Emergency telephone number	(0.4.4) 500, 4000 (05, 0.5 mm - A (.4.0000)
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificatioClassification of the substance ofClassification (GHS-US)Skin Corr. 1BH314 - Causes severe skinEye Dam. 1H318 - Causes serious eyeSTOT SE 3H335 - May cause respiratoFull text of H-phrases: see section 16	r mixture burns and eye damage damage
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS05 GHS07
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust, fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenges</li> </ul>

lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/ physician

P321 - Specific treatment (see supplemental first aid instructions on this label) P363 - Wash contaminated clothing before reuse

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

P501 - Dispose of contents/container to an approved waste disposal plant

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	20,			
2.3. Other hazards				
Other hazards not contributing to the       : Lachrymator.         classification       : Instance				
2.4. Unknown acute toxicity (GHS US)				
Not applicable				
<b>SECTION 3: Composition/information</b>	on in	gredients		
3.1. Substance				
Substance type :	Substance type : Mono-constituent			
Name		Product identifier	%	Classification (GHS-US)
4-(Trichloromethyl)benzoyl chloride (Main constituent)		(CAS No) 14815-86-2	<= 100	Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
Full text of H-phrases: see section 16				
3.2. Mixture				
Not applicable				
SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general :		e of accident or if you feel unwell, seek r possible). Move the affected personnel		
First-aid measures after inhalation :		ve person to fresh air and keep comforta ation. Get immediate medical advice/atte		g. If not breathing, give artificial
First-aid measures after skin contact :	-aid measures after skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Get immediate medical advice/attention.			othing and shoes. Get immediate
First-aid measures after eye contact :	Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.			
First-aid measures after ingestion :				
4.2. Most important symptoms and effects	both a	acute and delayed		
Symptoms/injuries : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.				
Symptoms/injuries after inhalation : Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.			nd upper respiratory tract. Cough,	
4.3. Indication of any immediate medical a	ttentio	and special treatment needed		
4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.				
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media :		ol resistant foam. Carbon dioxide. Dry po priate for surrounding fire.	owder. Water sp	ray. Use extinguishing media
5.2. Special hazards arising from the subs	tance c	or mixture		
Fire hazard :	Therm	nal decomposition generates: Carbon oxi	des. Hydrogen	chloride.
	React	s with water, generates gases or heat. R e highly explosive/flammable hydrogen g	eacts on exposi	
5.3. Advice for firefighters				
Firefighting instructions :	In cas	e of fire: Evacuate area.		
Protection during firefighting :		gas tight chemically protective clothing in atus. For further information refer to sect		
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equi		and emergency procedures		
	Evacu	late unnecessary personnel. Ensure ade le gas, fumes, vapor or spray.	quate air ventila	tion. Do not breathe dust. Do not
6.1.1. For non-emergency personnel				
0 71	Only o	qualified personnel equipped with suitabl	e protective equ	ipment may intervene.

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6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify author	ities if product enters sewers or public waters.
6.3. Methods and material for containm	nent and cleaning up
For containment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.
Methods for cleaning up	: Minimize generation of dust. Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, includ	ling any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use. Moisture sensitive. Keep contents under inert gas.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.
SECTION 8: Exposure controls/per	sonal protection
8.1 Control parameters	
No additional information available	
No additional information available 8.2. Exposure controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety shower
No additional information available 8.2. Exposure controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
No additional information available  8.2. Exposure controls  Appropriate engineering controls	<ul><li>should be available in the immediate vicinity of any potential exposure.</li><li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li></ul>
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No additional information available  8.2. Exposure controls  Appropriate engineering controls  Hand protection Eye protection Skin and body protection Respiratory protection Other information  SECTION 9: Physical and chemical	<ul> <li>Protective gloves. 29 CFR 1910.138: Hand Protection.</li> <li>Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.</li> <li>Wear suitable protective clothing.</li> <li>In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.</li> <li>Safety shoes. 29 CFR 1910.136: Foot Protection.</li> </ul> <b>properties</b> <ul> <li>chemical properties</li> <li>Solid</li> <li>Low melting solid.</li> <li>No data available</li> </ul>

Flammability (solid, gas)

: No data available

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Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 1.5 g/ml (@ 25 °C)
Molecular mass	: 257.93 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	

Refractive index

: 1.5822 (@ 25 °C)

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reacts with water, generates gases or heat. Reacts on exposure to water with some metals to release highly explosive/flammable hydrogen gas.

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Keep away from heat, sparks and flame. Moisture.

#### 10.5. Incompatible materials

Alcohols. Oxidizing agents. Strong bases. Water.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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SECT	ON 12: Ecological information
12.1.	Toxicity
No addi	tional information available
12.2.	Persistence and degradability
No addi	tional information available
12.3.	Bioaccumulative potential
No addi	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No addi	tional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.		
Additional information	: Recycle the material as far as possible.		

#### **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT Transport document description

#### UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)

DOT Symbols

DOT Special Provisions (49 CFR 172.102)

- : UN3261 Corrosive solid, acidic, organic, n.o.s., 8, III
- : UN3261
- : Corrosive solid, acidic, organic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- : IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
  - T1 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 25 kg (49 CFR 173.27)

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: 100 kg
: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
: No supplementary information available.
: 3261
: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S.
: 8 - Corrosive substances
: III - substances presenting low danger
: 3261
: Corrosive solid, acidic, organic, n.o.s.

Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

### Packing group (IATA)

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

4-(Trichloromethyl)benzoyl chloride	CAS No 14815-86-2	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### National regulations

4-(Trichloromethyl)benzoyl chloride (14815-86-2)	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	

#### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

#### **SECTION 16: Other information**

#### Full text of H-phrases:

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

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NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.