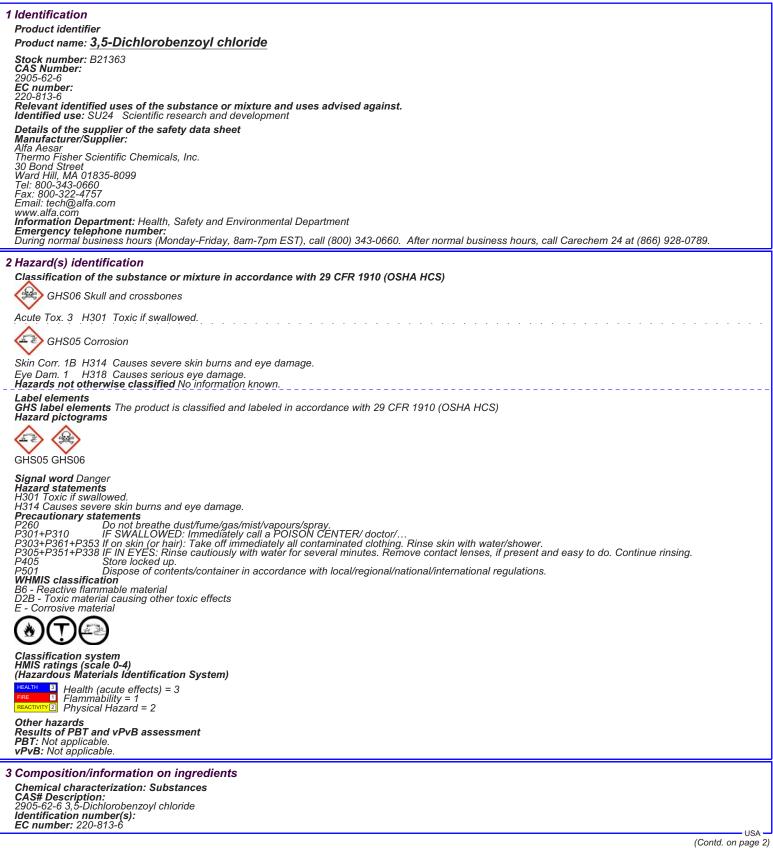


### Safety Data Sheet per OSHA HazCom 2012



4 First-aid measures

(Contd. of page 1)

Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately week with water and econ and ringe theroughly. Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents Water Special hazards arising from the substance or mixture Reacts violently with water If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents **Prevention of secondary hazards:** No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 13 for discovery information. See Section 13 for disposal information. 7 Handling and storage Handling Precautions for safe handling Handle under dry protective gas. Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Conditions for sale storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from storag bases. Store away from water/moisture. Further information about storage conditions: Store under dw. inc. Store under dry inert gas. This product is moisture sensitive. Protect from humidity and water. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. **Specific end use(s)** No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition.

(Contd. on page 3)

# Safety Data Sheet per OSHA HazCom 2012

### Product name: 3,5-Dichlorobenzoyl chloride

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. <b>Eye protection:</b> Tightly sealed goggles Full face protection <b>Body protection:</b> Protective work clothing.	(Contd. of page 2)
9 Physical and chemical properties	
Information on basic physical and chemical properties	

Information on basic physical and chemical properties		
General Information		
Appearance:	Low making calid	
Form:	Low melting solid	
Odor:	Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	26-28 °C (79-82 °F) 135-137 °C (275-279 °F) (25mm Hg) Not determined	
Flash point:	Not applicable	
Flammability (solid, gaseous)	Not determined.	
Ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto igniting:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not applicable.	
Density:	Not determined	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Solubility in / Miscibility with		
Water:	Reacts violently	
Partition coefficient (n-octanol/water):	: Not determined.	
Viscosity:		
dynamic:	Not applicable.	
kinematic:	Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		

#### 10 Stability and reactivity

Reactivity Reacts violently with water. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts violently with water Conditions to avoid No further relevant information available. Incompatible materials: Ovidizing agents Oxidizing agents Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCl) 11 Toxicological information Information on toxicological effects Acute toxicity: Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Gerproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Subacute to chronic toxicity:

Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) reports the following effects in laboratory animals: Sense Organs and Special Senses (Eye) - ptosis. Behavioral - somnolence (general depressed activity). Lungs, Thorax, or Respiration - dyspnea. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12 Ecological information

Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: Ceneral notes:

**General notes:** Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

Product name: 3,5-Dichlorobenzoyl chloride	
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of page 3) e.
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local or national regulations to Uncleaned packagings: Recommendation: Disposal must be made according to officia	
14 Transport information	
UN-Number DOT IMDG, IATA	UN3096 UN3261
UN proper shipping name DOT IMDG, IATA	Corrosive solids, water-reactive, n.o.s. (3,5-Dichlorobenzoyl chloride) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (3,5-Dichlorobenzoyl chloride)
Transport hazard class(es) DOT Class Label Class Label IMDG, IATA	8 Corrosive substances. 8+4.3 8 (C4) Corrosive substances 8
Class Label	8 Corrosive substances. 8
Packing group DOT, IMDG, IATA	11
Environmental hazards:	Not applicable.
Special precautions for user Segregation groups	Warning: Corrosive substances Acids
Transport in bulk according to Annex II of MARPOL73/78 a	
Transport/Additional information:	
DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (3,5-Dichlorobenzoyl chloride), 8, II
15 Regulatory information Safety, health and environmental regulations/legislation sp GHS label elements The product is classified and labeled in ac Hazard pictograms GHS05 GHS06 Signal word Danger Hazard statements H301 Toxic if swallowed	necific for the substance or mixture ccordance with 29 CFR 1910 (OSHA HCS)

Hazard statements H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. Diverse of contanto for proteiner in concerdance with local/carianel/international regulations Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

P501

 P403
 Store locked up.

 P501
 Dispose of contents/container in accordance with local/regional/national/international regulations.

 All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.

 All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL).

 SARA Section 313 (specific toxic chemical listings) Substance is not listed.

 California Proposition 65

 Prop 65 - Developmental toxicity, female Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Prop 65 - Developmental toxicity, male Substance is not listed.

 Information about limitation of use: For use only by technically qualified individuals.

 Other regulations, limitations and prohibitive regulations

 Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

 The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

 Substance is not listed.

 Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed.

 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# Product name: 3,5-Dichlorobenzoyl chloride

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(Contd. of page 4)

USA

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent VPW very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: Marinal Toxicology Program (USA)