

Safety Data Sheet per OSHA HazCom 2012

1 Identification	
Product identifier Product name: 2,6-Dimethoxybenzoyl chloride	
Stock number: L12345	
CAS Number: 1989-53-3	
EC number: 217-868-3	
Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier: Alfa Aesar The super Scientific Chemicals Inc.	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660	
Fax: 800-322-4757 Email: tech@alfa.com	
www.alfa.com Information Department: Health, Safety and Environmental Department	
Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.	
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS05 Corrosion	
Skin Corr. 1B H314 Causes severe skin burns and eye damage.	
Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known.	
Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)	
Hazard pictograms	
E E	
GHS05	
Signal word Danger	
Hāzard statements H314 Causes severe skin burns and eye damage.	
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. 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. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	
P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D2B - Toxic material causing other toxic effects E - Corrosive material	
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Classification system HMIS ratings (scale 0-4)	
(Hazardouš Materials Identification System) 바라지하 및 Health (acute effects) = 3	
FIRE Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards	
Results of PBT and vPvB assessment PBT: Not applicable.	
vPvB: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description: 1090 52.3.2 & Dimethory/honzoy/ chlorido	
1989-53-3 2,6-Dimethoxybenzoyl chloride Identification number(s): EC number: 217-868-3	
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4 First-aid measures Description of first aid measures	
General information Immediately remove any clothing soiled by the product. After inhalation	
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
After skin contact	
Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. (Contd. on page	age 2)
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(Contd. of page 1) 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. Special hazards arising from the substance or mixture 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. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. 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 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 strong bases. Store away from water/moisture. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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 Personal protective equipment General 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. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined

Eye protection: Tightly sealed goggles Full face protection

Body protection: Protective work clothing

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9 Physical and chemical properties	S	(0000000,000,000,000,000,000,000,000,00		
Information on basic physical and ch General Information Appearance:				
Form:	Crystalline powder			
Color: Odor:	Light brown Acrid			
Odor threshold:	Not determined.			
pH-value:	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	63-67 °C (145-153 °F) Not determined Not determined			
Flash point:	Not applicable			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Product does not present an explosion hazard.			
Explosion limits: Lower:	Not determined			
Upper:	Not determined			
Vapor pressure: Density:	Not applicable. Not determined			
Relative density	Not determined.			
Vapor density Evaporation rate	Not applicable. Not applicable.			
Solubility in / Miscibility with				
Water: Partition coefficient (n-octanol/water)	Reacts): Not determined.			
Viscosity: dynamic:	Not applicable.			
kinematic: Other information	Not applicable. No further relevant information available.			
Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)				
11 Toxicological information Information on toxicological effects Acute toxicity: 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. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known.				
Subacute to chronic toxicity: No effects known. 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: General notes: Do not allow material to be released to the environment without proper governmental permits. 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. Results of PBT and vPvB assessment PBT: Not applicable. VyVB: Not applicable. Other adverse effects No further relevant information available.				
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local	or national regulations to ensure proper disposal.	(Contd. on page 4) USA		

per OSHA HazCom 2012	Printing date 11/23/2015 Reviewed on 08/14/2009		
Product name: 2,6-Dimethoxybenzoyl chloride			
Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	(Contd. of page 3)		
14 Transport information			
UN-Number DOT, IMDG, IATA	UN3261		
UN proper shipping name DOT	Corrosive solid, acidic, organic, n.o.s. (2,6-Dimethoxybenzoyl chloride) CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2,6-Dimethoxybenzoyl chloride)		
IMDG, IATA Transport hazard class(es)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (2,6-Dimetnoxybenzoyi chioride)		
DOT			
Class	8 Corrosive substances.		
Label Class	8 8 (C4) Corrosive substances		
Label IMDG, IATA	8`´		
A			
\checkmark			
Class Label	8 Corrosive substances.		
Packing group DOT, IMDG, IATA			
DOT, IMDG, IATA Environmental hazards:	II Not applicable.		
Special precautions for user	Warning: Corrosive substances		
Segregation groups Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Acids		
Transport in balk according to Almex in or MARK OLTS TO and the 120 0000	s voi applicable.		
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":	UN3261, Corrosive solid, acidic, organic, n.o.s. (2,6-Dimethoxybenzoyl chloride), 8,		
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 Signal word Danger Hazard statements Do not breathe dust/fume/gas/mist/vapours/spray. P300 + P351 + P338 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P353 If OS Skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303+P361+P353 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. P405 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 in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. 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 in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. 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 in the U.S. Environmental Protection Agency Toxic Substances is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Chemicals known to 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 (REACH) for the manufacturing, plac			
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. 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 of Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and acronyms: RD: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	her product or process, is the responsibility of the user.		
	(Contd. on page 5) USA -		

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USA

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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 Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal concentration, 50 percent UVP: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)