

# Safety Data Sheet per OSHA HazCom 2012

Reviewed on 08	3/14/2014
1 Identification	
Product identifier	
Product name: 2,6-Dichloroaniline	
Stock number: L05103 CAS Number: 608-31-1	
EC number:	
210-160-5 Index number:	
612-010-00-8 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	
Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757	
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)	
GHS06 Skull and crossbones	
$\checkmark$	
Acute Tox. 3 H301 Toxic if swallowed. Acute Tox. 3 H311 Toxic in contact with skin.	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS08 Health hazard	
STOT RE 2 H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral,	
Inhalative. 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	
GHS06 GHS08	
Signal word Danger	
Hazard statements H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.	
H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative.	
Precautionary statements	
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/ P361 Take off immediately all contaminated clothing.	
P361 Take off immediately all contaminated clothing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
WHMIS classification	
D1A - Very toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH       B       Health (acute effects) = 3         FIRE       D       Flammability = 1	
REE 1 Flammability = 1 REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
3 Composition/information on ingredients Chemical characterization: Substances	
CAS# Description:	
608-31-1 2,6-Dichloroaniline Identification number(s):	
Identification number(s): EC number: 210-160-5 (Contd. c	on page 2)
	UŠA -

Page 2/5 Printing date 11/23/2015 Reviewed on 08/14/2014

(Contd. of page 1)

Index number: 612-010-00-8

# 4 First-aid measures

# Description of first aid measures

General information

Immediately remove any clothing soiled by the product. Remove breathing apparatus only after contaminated clothing has been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. 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. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Do not induce vomiting; immediately call for medical help. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 Nitrogen oxides (NOx) Hydrogen chloride (HCI) 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

Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: 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 Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Open and handle container with care. 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. Further information about storage conditions: 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Personal protective equipment 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. Store protective clothing separately. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use self-contained respiratory protective device in emergency situations. Protection of hands:

Impervious gloves

The protective gloves prior to each use for their proper condition. 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:** Safety glasses

(Contd. on page 3)

Product name: 2,6-Dichloroaniline

Body protection: Protective work clothing.

(Contd. of page 2)

Body protection: Protective work clothi	ing.	(		
9 Physical and chemical properties				
Information on basic physical and che General Information Appearance: Form: Color:				
Odor: Odor threehold:	Not determined			
Odor threshold: pH-value:	Not determined.			
-	Not applicable.			
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	37-40 °C (99-104 °F) 97 °C (207 °F) (5mm) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	118 °C (244 °F) Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evapor density Evapor density Evapor atto Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water).	Not determined Not determined Not applicable. 1.28 g/cm <sup>3</sup> (10.682 lbs/gal) Not determined. Not applicable. Not applicable. Not determined			
Viscosity:				
dynamic: kinematic:	Not applicable. Not applicable.			
Other information	No further relevant information available.			
10 Stability and reactivity Reactivity No information known. 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 with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen chloride (HCI)				
11 Toxicological information Information on toxicological effects Acute toxicity: Toxic in contact with skin. Toxic if inhaled. Toxic if inhaled. Toxic if iswallowed. Danger through skin absorption. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral, Inhalative. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicoly: No effects known.				
12 Ecological information Toxicity Aquatic toxicity: No further relevant infor Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant infor Ecotoxical effects: Remark: Very toxic for aquatic organism Additional ecological information: General notes: Do not allow product to reach ground was Danger to drinking water if even extremed Also poisonous for fish and plankton in v May cause long lasting harmful effects to Avoid transfer into the environment. Very toxic for aquatic organisms	her relevant information available. elevant information available. mation available. ns ater, water course or sewage system, even in small quantities. ely small quantities leak into the ground. water bodies.	(Contri on some fi		
		(Contd. on page 4)		

Product name: 2,6-Dichloroaniline				
Results of PBT and vPvB assessment	(Contd. of page 3)			
PBT: Not applicable. vPvB: Not applicable.				
Other adverse effects No further relevant information available.				
13 Disposal considerations				
Waste treatment methods	nranar dianagal			
Recommendation Consult state, local or national regulations to ensure Uncleaned packagings:				
<b>Recommendation:</b> Disposal must be made according to official regulation	ons.			
14 Transport information				
UN-Number DOT, IMDG, IATA	UN3442			
UN proper shipping name DOT	Dichloroanilines, solid			
IMDG, IATA	DICHLOROANILINES, SOLID			
Transport hazard class(es)				
DOT				
Taoc				
Class	6.1 Toxic substances.			
Label Class	6.1 6.1 (T2) Toxic substances			
Label	6.1			
IMDG, IATA				
Class	6.1 Toxic substances.			
Label Backing group	6.1			
Packing group DOT, IMDG, IATA	11			
Environmental hazards:	Environmentally hazardous substance, solid			
Special precautions for user EMS Number:	Warning: Toxic substances F-A,S-A			
Transport in bulk according to Annex II of MARPOL73/78 and the IB	C Code Not applicable.			
Transport/Additional information: DOT				
Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN3442, Dichloroanilines, solid, 6.1, II			
15 Regulatory information				
Safety, health and environmental regulations/legislation specific for GHS label elements The product is classified and labeled in accordance	r the substance or mixture			
GHS label elements The product is classified and labeled in accordance Hazard pictograms	e with 29 CFR 1910 (OSHA HCS)			
GHS06 GHS08				
Signal word Danger Hazard statements				
H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled. H373 May cause damage to the liver, the blood and the endocrine system through prolonged or repeated exposure. Route of exposure: Oral,				
Inhalative. Precautionary statements				
P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.				
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ do P361 Take off immediately all contaminated clothing.	ctor/			
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regic	nal/national/international regulations			
National regulations	ection 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 California Proposition 65	listea.			
Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed.				
Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.				
Information about limitation of use: For use only by technically qualified Other regulations, limitations and prohibitive regulations				
Substance of Very High Concern (SVHC) according to the REACH R	Regulations (EC) No. 1907/2006. Substance is not listed. II of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the			
market and use must be observed.	n or the regulation (Lo) no reor/2000 (REACH) for the individuality, placing on the			
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for u	se) Substance is not listed.			
Chemical safety assessment: A Chemical Safety Assessment has not	USA			
	(Contd. on page 5)			

# Product name: 2,6-Dichloroaniline

Page 5/5 Printing date 11/23/2015 Reviewed on 08/14/2014

### (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)