



	Identification	
	Product identifier	
ŀ	Product name: 2,6-Dichloro-4-hydroxybenzaldehyde	
0	Stock number: H28395 CAS Number:	
Ē	60964-09-2 Relevant identified uses of the substance or mixture and uses advised against. I dentified use: SU24 Scientific research and development	
L	Details of the supplier of the safety data sheet Manufacturer/Supplier:	
Æ	Alfa Aesar	
	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099	
ļ	Tel: 800-343-0660 Fax: 800-322-4757	
E	Email: tech@alfa.com www.alfa.com	
	Information Department: Health, Safety and Environmental Department Emergency telephone number:	
(Call Carechem 24 at +44 (0) 1865 407333 During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0789.
	Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
<	GHS07	
	Skin Irrit. 2 H315 Causes skin irritation.	
	Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.	
ł	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	
<		
C	GHS07	
	Signal word Warning	
ŀ	Hazard statements H315 Causes skin irritation.	
ŀ	H319 Causes serious eye irritation. H335 May cause respiratory irritation.	
ŀ	Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
F	P200 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing	~
F	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.	<i>j</i> .
F	P501 Dispose of contents/container in accordance with local/regional/national/international regulations.	
Ĺ	WHMIS classification D2B - Toxic material causing other toxic effects	
(Ū	
Ģ	Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
	HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1	
_	REACTIVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment	
ŀ	PBT: Not applicable. /PvB: Not applicable.	
3 (Composition/information on ingredients	
(Chemical characterization: Substances	
	CAS# Description: 50964-09-2 2,6-Dichloro-4-hydroxybenzaldehyde	
41	First-aid measures	
	Description of first aid measures	
	After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.	
-	After skin contact	
	mmediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.	
ļ	After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment.	
	-	(Contd. on page 2)

Product name: 2,6-Dichloro-4-hydroxybenzaldehyde (Contd. of page 1) 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 Hydrogen chloride (HCI) Advice for fireficience 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: 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 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 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: Not required. Additional information: No data 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. 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 **Body protection:** Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Color: Powder White Odor: Not determined Odor threshold: Not determined pH-value: Not applicable Change in condition 227-229 °C (441-444 °F) Not determined Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Not determined Not applicable Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Not determined. Not determined Not determined (Contd. on page 3)

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Product name: 2,6-Dichloro-4-hydrox	xybenzaldehyde	
		(Contd. of page 2)
5 5	Not determined.	
Danger of explosion: Explosion limits:	Product does not present an explosion hazard.	
Lower:	Not determined	
Vapor pressure:	Not determined Not applicable.	
Density:	Not determined Not determined.	
Vapor density	Not applicable.	
Evaporation rate Solubility in / Miscibility with	Not applicable.	
Water: Partition coefficient (n-octanol/water):	Insoluble Not determined	
Viscosity:		
kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity		
Reactivity No information known. Chemical stability Stable under recomm Thermal decomposition / conditions to Possibility of hazardous reactions No Conditions to avoid No further relevant Incompatible materials: Oxidizing agent Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen chloride (HCI)	t information available.	
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for cl Skin irritation or corrosion: Causes ski Eye irritation or corrosion: Causes seri Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data c Reproductive toxicity: No effects known Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	in irritation. ious eye irritation. own. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. - repeated exposure: No effects known. - single exposure: May cause respiratory irritation.	
12 Ecological information Toxicity Aquatic toxicity: No further relevant info Persistence and degradability No further Bioaccumulative potential No further re Mobility in soil No further relevant inform Additional ecological information: General notes: Do not allow material to be released to th Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevan	ner relevant information available. elevant information available. mation available. he environment without proper governmental permits. t	
13 Disposal considerations		
Waste treatment methods	or national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information Not a hazardous material for transportation	on.	
UN-Number DOT, IMDG, IATA	None	
UN proper shipping name DOT, IMDG, IATA	None	
Transport hazard class(es)		
DOT, ADR, IMDG, IATA Class	None	
Packing group DOT, IMDG, IATA		
DOT, IMDG, IATA Environmental hazards:	None Not applicable.	
Special precautions for user	Not applicable.	
	II of MARPOL73/78 and the IBC Code Not applicable.	
Transport/Additional information:	Not dangerous according to the above specifications.	
		(Contd. on page 4)

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207	(Contd. of pag
DOT Marine Pollutant (DOT):	No
Regulatory information Safety, health and environmental regulations GHS label elements The product is classified a Hazard pictograms	s/legislation specific for the substance or mixture and labeled in accordance with 29 CFR 1910 (OSHA HCS)
GHS07	
Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/g P305+P351+P338 IF IN EYES: Rinse cautiously P304+P340 IF INHALED: Remove persol P405 Store locked up. P501 Dispose of contents/contained National regulations This product is not listed in the U.S. Environment to research and development only. This product product must not be used for commercial purpor SARA Section 313 (specific toxic chemical li California Proposition 65 Prop 65 - Developmental toxicity, female Substance is Prop 65 - Developmental toxicity, male Subst Information about limitation of use: For use of Other regulations, limitations and prohibitive Substance of Very High Concern (SVHC) acc The conditions of restrictions according to A market and use must be observed. Substance is not listed.	ective clothing/eye protection/face protection. y with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In to fresh air and keep comfortable for breathing. er in accordance with local/regional/national/international regulations. Intal Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict t must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This ses or in formulations for commercial purposes. stings) Substance is not listed. Substance is not listed. solar is not listed. tance is not listed. Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006. Substance is not listed. Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the ring Authorisation for use) Substance is not listed.
information to ensure proper use and protect the conformance with this Material Safety Data She	a supplement to other information gathered by them, and should make independent judgement of suitability of this e health and safety of employees. This information is furnished without warranty, and any use of the product not i ret, or in combination with any other product or process, is the responsibility of the user.
IDT: IoS Department of Hansportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Che HMIS: Hazardous Materials Information System (USA) WHIMIS: Workplace Hazardous Materials Information System (U	5 / - handises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) I Air Transport Association" (IATA) ion Organization" (ICAO) emical Society) Canada)
LCSU: Lethal concentration, 50 percent LDS0: Lethal dose, 50 percent vPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygie OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	anists (USA)