



1 Identification Product identifier Product name: 2,2-Dichloroacetamide Stock number: L00315 CAS Number: 683-72-7 EC number: 211-674-2 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. Inerrito Fisher Scheman C. 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) ! GHS07 Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation. 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 GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements Precadionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 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. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked um P405 Store locked um Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. P405 WHMIS classification D2B - Toxic material causing other toxic effects Ţ Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1Flammàbility = 1 TIVITY 1 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: 683-72-7 2,2-Dichloroacetamide Identification number(s): EC number: 211-674-2 4 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 Immediately wash with water and soap and rinse thoroughly. (Contd. on page 2)

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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 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 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 Environmental precautions: Do not allow product to reach sewage system or any water course. 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

Conditions for safe storage, including Storage Requirements to be met by storeroon Information about storage in one com Further information about storage con Keep container tightly sealed.	explosions and tires: No information known. g any incompatibilities ns and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions:	
 Store in cool, dry conditions in well seale Specific end use(s) No further relevant		
8 Exposure controls/personal prote		
Additional information about design of 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 red	nuire monitoring at the workplace:	
The product does not contain any releva Additional information: No data	int quantities of materials with critical values that have to be monitored at the workplace.	
Exposure controls Personal protective equipment General protective and hygienic meas The usual precautionary measures for h Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo Wash hands before breaks and at the ei Avoid contact with the eyes and skin. Maintain an ergonomically appropriate w Breathing equipment: Use suitable res Recommended filter device for short Use a respirator with type N95 (USA) or purifying respirators are appropriate. Or Protection of hands: Impervious cloves	vorking environment. pirator when high concentrations are present. <b>term use:</b> PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- nly use equipment tested and approved under appropriate government standards. The for their proper condition. If depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer.	
9 Physical and chemical properties		_
Information on basic physical and che General Information Appearance: Form: Color: Odor: Odor threshold:	emical properties Crystalline powder White Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range:	96-101 °C (205-214 °F) 233-234 °C (451-453 °F)	

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Product name: 2,2-Dichloroacetam	
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Sublimation temperature / start: Flammability (solid, gaseous)	Not determined Not determined.
Ignition temperature: Decomposition temperature:	Not determined Not determined
Auto igniting:	Not determined Not determined.
Danger of explosion:	Not determined.
Explosion limits: Lower:	Not determined
Upper:	Not determined
Vapor pressure: Density:	Not applicable. Not determined
Relative density Vapor density	Not determined. Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with _ Water:	Not determined
Partition coefficient (n-octanol/water Viscosity:	
dynamic:	Not applicable.
kinematic: Other information	Not applicable. No further relevant information available.
0 Stability and reactivity	
Reactivity No information known.	to distance and the second
Chemical stability Stable under recon Thermal decomposition / conditions	s to be avoided: Decomposition will not occur if used and stored according to specifications.
Possibility of hazardous reactions R Conditions to avoid No further releva	Reacts with strong oxidizing agents
Incompatible materials: Oxidizing age	gents
Hazardous decomposition products Carbon monoxide and carbon dioxide	S:
Nitrogen oxides	
Hydrogen chloride (HCl)	
Toxicological information	
Information on toxicological effects	
LD/LC50 values that are relevant for	
Skin irritation or corrosion: Causes s Eye irritation or corrosion: Causes s	skin irritation.
Sensitization: No sensitizing effects k	known.
Germ cell mutagenicity: No effects ki	nown. nown. Ita on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
Reproductive toxicity: No effects kno	own.
Specific target organ system toxicit	<b>ty - repeated exposure:</b> No effects known. <b>ty - single exposure:</b> May cause respiratory irritation.
Aspiration hazard: No effects known.	Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.
Additional toxicological information	egistry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. n: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.
2 Ecological information	
Toxicity	
Aquatic toxicity: No further relevant in	information available.
Persistence and degradability No fun Bioaccumulative potential No further	er relevant information available.
Mobility in soil No further relevant info Additional ecological information:	ormation available.
General notes:	
Do not allow undiluted product or large Avoid transfer into the environment.	e quantities to reach ground water, water course or sewage system.
Results of PBT and vPvB assessme	ent
PBT: Not applicable. vPvB: Not applicable.	
Other adverse effects No further rele	vant information available.
3 Disposal considerations	
Waste treatment methods	
	al or national regulations to ensure proper disposal.
Recommendation: Disposal must be	made according to official regulations.
4 Transport information	
UN-Number	
DOT, ADN, IMDG, IATA	Not applicable
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable
Transport hazard class(es)	
DOT, ADR, ADN, IMDG, IATA	
Class	Not applicable
Packing group DOT, IMDG, IATA	Not applicable
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
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Product name: 2,2-Dichloroacetamide		
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.		
Transport/Additional information:		
DOT Marine Pollutant (DOT): No		
UN "Model Regulation":		
15 Regulatory information 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		
GHS07 Signal word Warning Hazard statements Hazard statements Hazard statements H315 Causes skin irritation. H315 Causes serious eye irritation. H325 May cause respiratory irritation. Precautionary statements Page Autionary St		
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.		
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / - Abbreviations and accomymes. ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transportation 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 Society) HMIS: Hazardous Materials Information System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal dose, 50 percent LD50: Lethal concentration, 50 percent DVB: very Persistent and very Bioaccumulative ACGHIF: American Conference of Governmental 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)		