



	11CVI3ION Gale 03/22/2010
1 Identification Product identifier	
Product name: Dowex 50WX4 100-200 (H)	
Stock number: L13917	
CAS Number: 11113-61-4	
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	
30 Bond Street Ward Hill, MA 01835-8099	
Tel: 800-343-0660 Fax: 800-32 <u>2</u> -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 2	4 at (866) 928-0789.
2 Hazard(s) identification	
Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). <b>Hazards not otherwise classified</b> No information known.	
Label elements	·
GHS label elements Not applicable Hazard pictograms Not applicable	
Signal word Not applicable Hazard statements Not applicable	
WHMIS classification Not controlled	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH Health (acute effects) = 1 FIRE Flammability = 0 Flammability = 0	
REACTIVITY I Physical Házard = 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:	
11113-61-4 Dowex 50WX4 100-200 (H)	
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. 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 Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol r	registent form
Special hazards arising from the substance or mixture	
If this product is involved in a fire, the following can be released: Silicon oxide	
Sodium oxide Aluminum oxide	
Advice for firefighters Protective equipment:	
Wear fully protective impervious suit.	
6 Accidental release measures Personal precautions, protective equipment and emergency procedures	
Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation	
<b>Environmental precautions:</b> Do not allow product to reach sewage system or any water course.	· · · · · · · · · · · · · · · · · · ·
Methods and material for containment and cleaning up: Pick up mechanically. Prevention of secondary hazards: No special measures required.	
Reference to other sections See Section 7 for information on safe handling	
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Product name: Dowex 50WX4 100-20	DO (H)	
See Section 8 for information on persona See Section 13 for disposal information.	al protection equipment.	(Contd. of page 1)
Conditions for safe storage, including Storage Requirements to be met by storeroon	explosions and fires: No information known. a any incompatibilities as and receptacles: No special requirements. mon storage facility: Store away from oxidizing agents. nditions: ad containers.	
Control parameters Components with limit values that rec	of technical systems: designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Recommended filter device for short a Use a respirator with type N95 (USA) or purifying respirators are appropriate. Or Protection of hands: Impervious gloves	andling chemicals should be followed. nd feed. thing immediately. nd of work. orking 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 d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to d and the standards. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a backup to engineering controls. PE (EN 143) cartridges as a ba	letermine if air-
9 Physical and chemical properties Information on basic physical and che General Information		
Appearance: Form: Odor: Odor threshold:	Beads Not determined Not determined.	
pH-value: Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable. Not determined Not determined Not determined. Not determined. Not determined Not determined. Not determined.	
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Not determined Not determined Not determined Not determined Not determined. Not determined. Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water). Viscosity: dynamic: kinematic: Other information	Insoluble Not determined. Not applicable. Not applicable. 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

Product name: Dowex 50WX4 100-200 (H)		
<b>Hazardous decomposition products:</b> Silicon oxide Sodium oxide		(Contd. of page 2)
Aluminum oxide		
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. 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. Carcinogenicity: No classification data on carcinogenic properties of the Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance	ets known. known. ne 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 availabl Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes: Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	le.	
13 Disposal considerations		
Waste treatment methods Recommendation Consult state, local or national regulations to ensure Uncleaned packagings: Recommendation: Disposal must be made according to official regulat		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA		
Transport hazard class(es)	Not applicable	
DOT, ADR, ADN, IMDG, IATA	No. 1. and Paral In	
Class Packing group	Not applicable	
DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the II	BC Code Not applicable.	
Transport/Additional information: DOT		
Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
to research and development only. This product must be used by or dire product must not be used for commercial purposes or in formulations fo This product is not listed on the Canadian Domestic Substances List (D SARA Section 313 (specific toxic chemical listings) Substance is no California Proposition 65 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 qualif. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH I	Toxic Substances Control Act Chemical Substance Inventory. Use of this pro ectly under the supervision of a technically qualified individual as defined by T or commercial purposes. ISL) or the Canadian Non-Domestic Substances List (NDSL). of listed. fied individuals. Regulations (EC) No. 1907/2006. Substance is not listed. VII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing,	rSCA. This placing on the
		(Contd. on page 4)

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## Product name: Dowex 50WX4 100-200 (H)

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.	(Contd. of page 3)
<b>16 Other information</b> Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suin information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	ability of this product not in
Department issuing SDS: Global Marketing Department Date of preparation / last revision 09/23/2016 / - 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) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) DOT: US Department of Transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) MHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal dose, 50 percent UDS0: Lethal dose, 50 percent VPVB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSFIA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)	