



1 Identification Product identifier Product name: Sodium metabisulfite Stock number: A17351 CAS Number: 7681-57-4 EC number: 231-673-0 Index number: 016-063-00 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 Su Bong 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 Eye Dam. 1 H318 Causes serious eye damage. ! GHS07 Acute Tox. 4 H302 Harmful if swallowed. 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 ! GHS05 GHS07 Signal word Danger Hazard statements H302 Harmful if swallowed. H318 Causes serious eye damage. Precautionary stateménts Precamonary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P300 Immediately call a POISON CENTER/doctor/... P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 2Flammability = 0 Flammability = 0 Flammability = 1 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 7681-57-4 Sodium metabisulfite Identification number(s): EC number: 231-673-0 Index number: 016-063-00-2

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 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 Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Sulfur oxides (SOX) Sodium oxide 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 Mount respiratory protective device. 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: Dispose of contaminated material as waste according to section 13. 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: The product is not flammable 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 water/moisture. Do not store together with acids. Store away from oxidizing agents. Further information about storage conditions: This product is moisture sensitive. This product is mositure sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Store in cool, dry conditions in oreal sealed containers. Protect from humidity and water.	
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: 7681-57-4 Sodium metabisulfite (100.0%) REL (USA) Long-term value: 5 mg/m ³ TLV (USA) Long-term value: 5 mg/m ³ EL (Canada) Long-term value: 5 mg/m ³ EV (Canada) Long-term value: 5 mg/m ³ 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 solied and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Maintain an ergonomically appropriate working environment.	
Breathing equipment: Use suitable respirator when high concentrations are present.	(Contd. on page 3) USA —

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purifying respirators are appropriate. On Protection of hands:	PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air- ly use equipment tested and approved under appropriate government standards. e for their proper condition. depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. minutes) 480	
9 Physical and chemical properties		
Information on basic physical and che General Information Appearance: Form: Color:		
Odor: Odor threshold:	Like rotten eggs Not determined.	
pH-value (50 g/l) at 20 °C (68 °F):	3.5-5.0	
Change in condition Melting point/Melting range: Boiling point/Melting range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	>300 °C (>572 °F) Not determined Not determined Not determined 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	Not determined. Not determined Not determined Not applicable. 1.48 g/cm ³ (12.351 lbs/gal) Not determined.	
Vapor density Evaporation rate Solubility in / Miscibility with Water at 20 °C (68 °F): Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic:	Not applicable. Not applicable. 650 q/l	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity Contact with acids liberates toxic gas. 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 Contact with acids liberates toxic gas. Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Air Water/moisture Acids Hazardous decomposition products: Sulfur oxides (SOx) Sodium oxide		
LD/LC50 values that are relevant for c Oral LD50 1131 mg/kg (rat)	al Substances (RTECS) contains acute toxicity data for this substance. lassification:	
Carcinogenicity: ACGIH A4: Not classifiable as a human of Reproductive toxicity: The Registry of Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known.	ious eye damage. wn. of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance. carcinogen: Inadequate data on which to classify the agent in terms of its carcinogenicity in humans and/or animals. Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance. repeated exposure: No effects known. • single exposure: No effects known.	
Additional toxicological information:	istry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.	
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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 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.	
vPvB: 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. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	
14 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.	
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 GHS05 GHS07	
Signal word Danger Hazard statements H302 Harmful if swallowed. H318 Causes serious eye damage. Precautionary statements P260 Weap protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor/ P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental t	
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 suitab information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the process formance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.	bility of this oduct not in Contd. on page 5)

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USA -

	Department issuing SDS: Global Marketing Department
	Date of preparation / last revision 1/24/2015/-
	Abbreviations and acronyms:
	RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
	ICAO: International Civil Aviation Organization 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 Society)
	HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)
	LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent
	vPvB: 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)
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