## Safety Data Sheet

# Thermo Fisher

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1 Identification Product identifier Product name: <u>Xanthine monosodium salt, monohydrate, Affymetrix/USB</u>
Stock number: J23465 CAS Number: 1196-43-6 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 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) The substance is not classified as hazardous according to 29 CFR 1910 (OSHA GHS). Hazards not otherwise classified 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 I HEALTH I HEALTH I HEALTH I HEALTH I Health (acute effects) = 1 Flammability = 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: 1196-43-6 Xanthine monosodium salt, monohydrate Concentration: ≤100%
<ul> <li>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.         </li> </ul>
<ul> <li>5 Fire-fighting measures</li> <li>Extinguishing media</li> <li>Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</li> <li>Special hazards arising from the substance or mixture</li> <li>If this product is involved in a fire, the following can be released:</li> <li>Carbon monoxide and carbon dioxide</li> <li>Sodium oxide</li> <li>Nitrogen oxides (NOx)</li> <li>Advice for firefighters</li> <li>Protective equipment:</li> <li>Wear self-contained respirator.</li> <li>Wear fully protective impervious suit.</li> </ul>
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: Pick up mechanically. Prevention of secondary hazards: No special measures required. (Contd. on page 2)

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(Contd. o andling al protection equipment.	f page 1)			
containers. explosions and fires: No information known. g any incompatibilities ns and receptacles: No special requirements. imon storage facility: Store away from oxidizing agents. nditions: ed containers.				
	ir-			
The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Safety glasses Body protection: Protective work clothing.				
9 Physical and chemical properties				
Crystalline powder				
Not determined.				
Not applicable.				
Not determined Not determined Not determined Not determined Not determined Not determined Not determined.				
Not determined. Not determined Not applicable. Not determined Not determined. Not applicable. Not applicable. Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.				
	containers. explosions and fires: No information known. any incompatibilities Is and receptacles: No special requirements. Information available. Is and receptacles: No special requirements. Information available. Information available. I			

### 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

(Contd. on page 3)

### Product name: Xanthine monosodium salt, monohydrate, Affymetrix/USB

(Contd. of page 2)

Hazardous decomposition products: Carbon monoxide and carbon dioxide Sodium oxide		(Conta. or page 2)
Nitrogen oxides		
11 Toxicological information		
Information on toxicological effects		
Acute toxicity: No effects known.	N. L.C.	
LD/LC50 values that are relevant for classification: Skin irritation or corrosion: May cause irritation	No data	
Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known.		
Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known.		
Carcinogenicity: No classification data on carcinogeni	ic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.	
Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exp	nosuro: No offecto known	
Specific target organ system toxicity - single expos Aspiration hazard: No effects known.	sure: No effects known.	
Aspiration hazard: No effects known.		
Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of c	our knowledge the acute and chronic toxicity of this substance is not fully known.	
Carcinogenic categories	ů i i	
OSHA-Ca (Occupational Safety & Health Administra	ation) Substance is not listed.	
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant information availa	able	
Aquatic toxicity: No further relevant information availa Persistence and degradability No further relevant info Bioaccumulative potential No further relevant informat Mobility in soil No further relevant information available	ormation available.	
Bioaccumulative potential No further relevant information available	ation available.	
Additional ecological information:	10.	
General notes: Do not allow undiluted product or large quantities to rea	ach around water, water course or sewage system	
Avoid transfer into the environment. Results of PBT and vPvB assessment	son ground water, water oourse er sewage system.	
Results of PBT and vPvB assessment PBT: Not applicable.		
vPvB: Not applicable.		
Other adverse effects No further relevant information	avallable.	
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local or national regu Uncleaned packagings:	ilations to ensure proper disposal.	
<b>Recommendation:</b> Disposal must be made according	to official regulations.	
14 Transport information		
UN-Number		
DOT, ADN, IMDG, IATA UN proper shipping name	Not applicable	
DOT, ADN, IMDG, ĬATA	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 MARPOL	.73/78 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/legisla	ation specific for the substance or mixture	
GHS label elements Not applicable		
Hazard pictograms Not applicable Signal word Not applicable		
Hazard statements Not applicable		
National regulations '' This product is not listed in the U.S. Environmental Pro	stection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this	s product is restricted
to research and development only. This product must b	be used by or directly under the supervision of a technically qualified individúal as defined	by TSCA. This
product must not be used for commercial purposes or in This product is not listed on the Canadian Domestic Su	in formulations for commercial purposes. Ibstances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).	
SARA Section 313 (specific toxic chemical listings)	Substance is not listed.	
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substa	ance is not listed	
Prop 65 - Developmental toxicity Substance is not lis	sted.	
Prop 65 - Developmental toxicity, female Substance	is not listed	

Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

(Contd. on page 4)

#### Product name: Xanthine monosodium salt, monohydrate, Affymetrix/USB

(Contd. of page 3) market and use must be observed. 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 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 Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this 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 01/24/2017 / -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 Transportation CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LDS0: Lethal concentration, 50 percent VPUE: 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)

USA