



Page 1/4 Printing date 11/20/2018 Revision date 11/16/2018 Version 1

		10.0.0
1	1 Identification Product identifier	
	Product name: CHAPS Stock number: B21927	
	CAS Number: 75621-03-3 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) 928-0	789.
2	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.	
	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. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves / 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 up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects	
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	Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
	HEALTH I Health (acute effects) = 1 FIRE I Flammability = 1 REACTVITY Physical Hazard = 1	
	Other hazards Results of PBT and vPvB assessment PBT: Not applicable.	
	vPvB: Not applicable.	
3	3 Composition/information on ingredients Chemical characterization: Substances CAS# Description:	
	75621-03-3 3[[3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate Concentration: ≤100%	
4	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.	(Contd. on page 2)

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After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes skin irritation. Causes serious eye irritation. 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: It this product is involved in a fire, the i Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides (NOx) 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. Protective Action Criteria for Chemicals PAC-1: Substance is not listed PAC-1: Substance is not listed. PAC-2: Substance is not listed. PAC-3: Substance is not listed. 7 Handling and storage Handling 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: No information known. Conditions for safe storage, including any incompatibilities 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. Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data 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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or P2 (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves 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 with side shields / NIOSH (US) or EN 166(EU) **Body protection:** Protective work clothing. USA Product name: CHAPS

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9 Physical and chemical properties	25		
Information on basic physical and ch			
General Information			
Appearance: Form:	Powder		
Odor:	Not determined		
Odor threshold:	Not determined.		
pH-value:	Not applicable.		
Change in condition			
Melting point/Melting range:	156-158 °C (313-316 °F) (dec)		
Boiling point/Boiling range:	Not determined		
Sublimation temperature / start:	Not determined		
Flash point:	Not determined		
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion:	Not determined.		
Explosion limits:	Not determined		
Lower: Upper:	Not determined Not determined		
Vapor pressure:	Not applicable.		
Density:	Not determined		
Relative density	Not determined.		
Vapor density Evaporation rate	Not applicable. Not applicable.		
Solubility in / Miscibility with			
Water: Partition coofficient (n octanol/water)	Not determined		
Partition coefficient (n-octanol/water) Viscosity:	ij. Not usterinineu.		
dynamic:	Not applicable.		
kinematic:	Not applicable.		
Other information	No further relevant information available.		
0 Stability and reactivity			
Incompatible materials: Oxidizing agents Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx) Nitrogen oxides			
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: Causes serious eye irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Augustual toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.			
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Uncleaned packagings: Recommendation: Disposal must be made according to offici	(Contd. of page S		
4 Transport information	ar regulations.		
UN-Number DOT, ADN, IMDG, IATA	Not applicable		
UN proper shipping name DOT, ADR, ADN, IMDG, IATA	Not applicable		
Transport hazard class(es)			
DOT, ADR, ADN, IMDG, IATA Class	Not applicable		
Packing group DOT, ADR, IMDG, IATA	Not applicable		
Environmental hazards:	Not applicable.		
Special precautions for user	Not applicable.		
Transport in bulk according to Annex II of MARPOL73/78 a	and the IBC Code Not applicable.		
Transport/Additional information:			
DOT Marine Pollutant (DOT):	No		
UN "Model Regulation":	Not applicable		
Hazard pictograms			
GHS07			
P305+P351+P338 If in eyes: Rinse cautiously with water for se P304+P340 IF INHALED: Remove person to fresh air al P405 Store locked up. P501 Dispose of contents/container in accordanc National regulations This product is not listed in the U.S. Environmental Protection. to research and development only. This product must be used	in a case of the second sec		
This product must not be used for commercial purposes of in formu This product is not listed on the Canadian Domestic Substance SARA Section 313 (specific toxic chemical listings) Substa California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is n	ulations for commercial purposes. ces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). ance is not listed.		

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 qualified individuals.

Other regulations, limitation of use, if of 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. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the 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. Information is full 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/Revision: Print date, revision date and version number are in the header of each page.
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)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transport Association
GAS: 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
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPVE: very Persistent and very Bioaccumulative Hygienists (USA)
OSHA: Occupational Safety and Heelth Administration (USA)
IMTP: National Society (USA)
WTP: Netronal ToxicoGy Program (USA)
IMTP: Attendiational Agency for Research on Cancer
EPA: Environmental Protection Agency (USA)
SVHC: Substances of Very High Concern
VPVE: Very Persistent and very Bioaccumulative
FBT: Persistent and series and Heelth Administration (USA)
IMTP: National ToxicoGy Program (USA)
IMTP: National ToxicoGy Program (USA)
IMTP: Association agency (USA)
SVHC: Substances of Very High Concern
VPVE: Substances of Very High Concern
VPVE: Very Persistent and very Bioaccumulative
FBT: Environmental Protecterence of Covernmental Hygienists (USA)
OSHA: Occupational Safety and Heelth Administration (USA)
IMTP: National ToxicoGy Program (USA)
IARC: International Agency for Research on Cancer
EPA: Environmental Protector Research on Cancer
EPA: Environmental Protector Agency (USA)
Stir Intr. 2: Skin corrosion/Intilition – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

USA