

Safety Data Sheet per OSHA HazCom 2012

Reviewed on 11/12/2014
1 Identification
Product identifier Product name: 1-Adamantanemethylamine
Stock number: H66197
CAS Number: 17768-41-1
EC number: 241-752-1
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
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
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
H227 Combustible liquid. 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
Signal word Danger
Hazard statements
H227 Combustible liquid. H314 Causes severe skin burns and eye damage. Precautionary statements
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 De pt broothe duct/fume/gao/miet/upeur/oprov
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
WHMIS classification B3 - Combustible liquid
D2B - Toxic material causing other toxic effects E - Corrosive material
Classification system
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH I Health (acute effects) = 3 FIRE I Filmmability = 2
REACTIVITY 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: 17768-41-1 1-Adamantanemethylamine
Identification number(s): EC number: 241-752-1
4 First-aid measures
Description of first aid measures General information Immediately remove any clothing soiled by the product.
After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm.
(Contd. on page 2) (Contd. an USA)

Product name: 1-Adamantanemethylamine (Contd. of page 1) 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 Causes severe skin burns. Causes serious eye damage. 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: Or how monovide and earthen dioxiden discussion. Carbon monoxide and carbon dioxide 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: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation Prevention of secondary hazards: Keep away from ignition sources. 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: Keep ignition sources away. Conditions for safe storage, including any incompatibilities Conditions for sale storage, moleculary any moonpatients. Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from air. Do not store together with acids. Store away from oxidizing agents. Further information about storage conditions: Store under day inclusion Store under dry inert gas. This product is air sensitive. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. 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. Do not inhale dust / smoke / mist. 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 organic vapor/acid gas 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 such as NIOSH (USA) or CEN (EU). Protection of hands: Protection of hands: 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. Eye protection: Tightly sealed goggles (Contd. on page 3)

Product name: 1-Adamantanemethylamine

(Contd. of page 2)

Full face protection Body protection: Protective work cloth	ning.	(Contd. of page 2)		
9 Physical and chemical properties				
Information on basic physical and chemical properties General Information Appearance:				
Form: Color: Odor:	Liquid Colorless to pale yellow Not determined			
Odor threshold:	Not determined.			
pH-value: Change in condition	Not determined.			
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 83-85 °C (181-185 °F) (0.3mm) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature:	92 °C (198 °F) Not determined. Not determined			
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion: Explosion limits:	Not determined.			
Lower: Upper:	Not determined Not determined			
Vapor pressure:	Not determined			
Density at 20 °C (68 °F): Relative density	0.933 g/cm³ (7.786 lbs/gal) Not determined.			
Vapor density Evaporation rate	Not determined. Not determined.			
Solubility in / Miscibility with				
Water: Partition coefficient (n-octanol/water) Viscosity:	Not determined): Not determined. Not determined.			
dynamic: kinematic: Other information	Not determined. No further relevant information available.			
Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Acids Air Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides				
11 Toxicological information Information on toxicological effects Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/L C50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing 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. Aspiration hazard: No effects known. Aspiration hazard: No effects known. Additional toxicological information: To the best of our knowledge the 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 available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information: General notes:				
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. (Contd. on p			

Safety Data Sheet per OSHA HazCom 2012

Product name: 1-Adamantanemethylamine

Uncleaned packagings: Recommendation: Disposal must be made according to official reg	(Contd. of page 3)
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2735
UN proper shipping name DOT	
ĪMDG, IATA	Amines, liquid, corrosive, n.o.s. (1-Adamantanemethylamine) AMINES, LIQUID, CORROSIVE, N.O.S. (1-Adamantanemethylamine)
Transport hazard class(es) DOT	
Class Label	8 Corrosive substances. 8
Class Label	8 (C7) Corrosive substances 8
IMDG, IATA	
Class	8 Corrosive substances.
Label Packing group	8
Packing group DOT, IMDG, IATA Environmental hazards:	III Not applicable.
Special precautions for user	Warning: Corrosive substances
EMS Number: Segregation groups	F-A, S-B Alkalis
Transport in bulk according to Annex II of MARPOL73/78 and the	he IBC Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2735, Amines, liquid, corrosive, n.o.s. (1-Adamantanemethylamine), 8, III
P405 Store locked up. P501 Dispose of contents/container in accordance wit. National regulations This product is not listed in the U.S. Environmental Protection Agen to research and development only. This product must be used by on product must not be used for commercial purposes or in formulation This product is not listed on the Canadian Domestic Substances Lis SARA Section 313 (specific toxic chemical listings) Substance i 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. Information about limitation of use: For use only by technically q Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REA The conditions of restrictions according to Article 67 and Annee market and use must be observed. Substance is not listed.	urfaces. No smoking. Ty: aminated clothing. Rinse skin with water/shower. eral minutes. Remove contact lenses, if present and easy to do. Continue rinsing. th local/regional/national/international regulations. ncy Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted r directly under the supervision of a technically qualified individual as defined by TSCA. This rs for commercial purposes. st (DSL) or the Canadian Non-Domestic Substances List (NDSL). is not listed. ualified individuals. CH Regulations (EC) No. 1907/2006. Substance is not listed. ex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the for use) Substance is not listed.
information to ensure proper use and protect the health and safety of	s not been carried out. er information gathered by them, and should make independent judgement of suitability of this of employees. This information is furnished without warranty, and any use of the product not in n with any other product or process, is the responsibility of the user. (Contd. on page 5)

(Contd. of page 4)

USA

Product name: 1-Adamantanemethylamine

 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 dassociation

 ITAL: International Air Transport Association

 EINECS: European Inventory of Existing Commercial Chemical Substances

 CAS: Chemical Abstracts Service (division of the American Chemical Society)

 HMIN: Hazardous Materials Identification System (USA)

 WHMIS: Workplace Hazardous Materials Information System (Canada)

 LC50: Lethal concentration, 50 percent

 LD50: Lethal concentration, 50 percent

 LD50: Evental dose, 50 percent

 VPWB: 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)

 IAR: International Agency for Research on Cancer

 EPA: Environmental Protection Agency (USA)