



Page 1/4 Printing date 10/04/2018 Revision date 10/03/2018 Version 1

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1 Identification	
Product identifier	
Product name: <u>Dibenzo-18-crown-6</u> Stock number: A13133, L00635	
CAS Number:	
14187-32-7 EC number:	
238-041-3 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) 928-0789.	
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. 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.	
H319 Causes serious eye irritation.	
H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/sprav	
P280 Wear protective gloves / eve 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	
\mathbf{T}	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
FIRE I REACTIVITY 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: 14187-32-7 6, 7,9,10,17,18,20,21- 14187-32-7 6, 7,9,10,17,18,20,21-	
Octahydrodibenzo[b,k][1,4,7,10,13, 16]hexaoxacyclooctadecin	
Concentration: ≤100% Identification number(s):	
EC number: 238-041-3	USA

(Contd. on page 2)

Product name: Dibenzo-18-crown-6

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	(Contd. of page 1)
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.	
Seek immédiate 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 skin irritation.	
Causes serious eye 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: Carbon monoxide and carbon dioxide 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-3: Substance is not listed. PAC-3: Substance is not listed.	
7 Handling and storage	
Handling Precautions for safe handling 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	
Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: 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	
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. Weap bande before before before a to be and a tward.	
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 det purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves	ermine if air-
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. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes) 480	
Glove thickness: 0.11 mm	(Contd. on page 3)
	USA -

Safety	Data	Sheet
acc. to O	SHA HO	CS

Product name: Dibenzo-18-crown-6

Eye protection: Safety glasses with side shields / NIOSH (US) or EN 166(EU) Body protection: Protective work clothing.	
Body protection: Protective work clothing.	

(Contd. of page 2)

Eye protection: Safety glasses with sid Body protection: Protective work cloth	te shields / NIOSH (US) or EN 166(EU) ning.	(00/10/07/2012)
9 Physical and chemical properties	S	
Information on basic physical and ch General Information Appearance:		
Form: Odor:	Powder Not determined	
Odor threshold:	Not determined.	
pH-value: Change in condition	Not applicable.	
Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	160-164 °C (320-327 °F) 380-384 °C (716-723 °F) (679mm) Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not determined Not determined Not determined	
Decomposition temperature: Auto igniting:	Not determined Not determined.	
Danger of explosion:	Not determined.	
Explosion limits: Lower: Upper:	Not determined Not determined	
Vapor pressure: Density:	Not applicable. Not determined	
Relative density	Not determined.	
Vapor density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water)	Not determined	
Viscosity:		
dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
Conditions to avoid No further relevan Incompatible materials: Oxidizing ager Hazardous decomposition products: 11 Toxicological information Information on toxicological effects Acute toxicity: The Registry of Toxic E LD/LC50 values that are relevant for o Skin irritation or corrosion: May cause	ents Carbon monoxide and carbon dioxide Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance. classification: No data se irritation	
Eye irritation or corrosion: May cause Sensitization: No sensitizing effects kn Germ cell mutagenicity: No effects kn Carcinogenicity: No classification data	e irritation nown. nown. a on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH	
Reproductive toxicity: No effects know		
	repeated 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. 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 inf Persistence and degradability No furth Bioaccumulative potential No further r Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow undiluted product or large o Avoid transfer into the environment.	ther relevant information available. relevant information available. rmation available. quantities to reach ground water, water course or sewage system.	
Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva		
13 Disposal considerations		
Waste treatment methods		
Recommendation Consult state, local o	or national regulations to ensure proper disposal.	(Contd. on page 4)

Product name: Dibenzo-18-crown-6

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USA

Recommeridation: Disposal must be made according to official regulations. 11 Transport information With Yumber DOT, ADR, MMOG, IATA Not applicable Work applicable DOT, ADR, ADN, IMDG, IATA Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class Not applicable Packing group DOT, ADR, IMDG, IATA Not applicable Environmental hazards: Not applicable Environmental hazards: Not applicable. Transport Additional information: DOT Marine Pollutant (DOT): No UN "Model Regulation": Not applicable UN "Model Regulation": Not applicable UN "Model Regulation for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard statements Markine Politation. Hazard statements Fig. Hase classified and	Uncleaned packagings:	(Conta. or p
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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 and the IBC Code Not applicable. Image: Code Not applicable. Transport/Additional information: DOT DOT Moi Marine Pollutant (DOT): No UN "Model Regulation": Not applicable 5 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 Signal word Warning Hazard statements Hazard statements H315 Causes skin tation. H335 May causes respiratory inflation. H335 May causes respiratory inflation. Precautionary statements H315 Causes skin tation. H335 May causes respiratory inflation. H335 May causes respiratory inflation. Precautionary statements H315 Causes skin tation. Precautionary statements H315 Causes skin tation. Precautionary statements H335 May causes res	Transport hazard class(es)	
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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 Not Marine Pollutant (DOT): No UN "Model Regulation": Not applicable 5 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 V GHS07 Signal word Warning Hazard statements H315 Causes skin iritation. H335 May cause respiratory irritation. H336 May cause respiratory irritation. P261 Avoid breathing dust/fume/gas/mist/vapors/spray P261 Avoid breathing dust/fume/gas/mist/vapors/spray 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. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 Store locked up. P501 Dispose of	Packing group DOT, ADR, IMDG, IATA	Not applicable
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Dor No Marine Pollutant (DOT): No UN "Model Regulation": Not applicable Image: State Pollutant (DOT): State Pollutant (DOT): Image: State Pollutant (DOT): Pollutant (DOT): Image: State Pollutant (DOT): Protective State Pollutant (DOT): Image: State Pollutant (DOT): Protective State Polutant (Dot): Image: St	Transport in bulk according to Annex II of MARPOL73/7	78 and the IBC Code Not applicable.
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Frequlatory 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	UN "Model Regulation":	Not applicable
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All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed.	Signal word Warning Hazard statements H315 Causes skin irritation. H315 Causes serious eye irritation. H335 May cause respiratory irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapu P305+P351+P338 If in eyes: Rinse cautiously with water for P304+P340 IF INHALED: Remove person to fresh at P405 Store locked up. P501 Dispose of contents/container in accords National regulations All components of this product are listed in the U.S. Enviror	or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. lance with local/regional/national/international regulations. nmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. Non-Domestic Substances List (NDSL).

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 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. 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. Interfactor of the solution properties of the product and include of the data of the 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 Transportation
IATA: International Air Transport Association
ENECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
LD50: Lethal concentration, 50 percent
LD50: Lethal concentration, 50 percent
VPE: very sistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
VPWE: very Persistent, Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
NTP: National Toxicology Program (USA)
Xim Intt. 2: Skin corrosion/initiation – Category 2A
StrOT SE 3: Specific target organ toxicity (single exposure) – Category 3