

Safety Data Sheet per OSHA HazCom 2012

Vene	ewed 011 12/03/2012
1 Identification	
Product identifier Product name: n-Dodecylbenzenesulfonic acid	
Stock number: H60949	
CAS Number:	
27176-87-0 EC number:	
248-289-4 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	8-0789.
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.	
(I) 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	
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GHS05 GHS07	
Signal word Danger Hazard statements	
H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.	
Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.	
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 rinsi P305+P351+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.	ng.
P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up.	0
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 E - Corrosive material	
Classification system HMIS ratings (scale 0-4)	
(Hazardous Materials Identification System)	
HEALTH B Health (acute effects) = 3 FIRE B Flammability = 1	
REACTIVITY 1 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: 27176 <u>-</u> 87-0 n-Dodecylbenzenesulfonic acid	
Identification number(s): EC number: 248-289-4	
4 First-aid measures	
Description of first aid measures	
General information Immediately remove any clothing soiled by the product.	(Contd. on page 2)
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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 Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available.	(Contd. of page 1)
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 Sulfur oxides (SOx) 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 material to be released to the environment without proper governmental permits. 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: No special measures required. Reference to other sections See Section 7 for information on safe handling See Section 13 for disposal information. 	
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 strong bases. Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in cool, dry conditions in well sealed containers.	
 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 usel 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. 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. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable glove material, but also on quality. Quality will vary from manufacturer to manufacturer. Penetration time of glove material (in minutes) Not determined Eye protection: Tightly sealed goggles Full face protection: Body protection: Protective work clothing. 	
	(Contd. on page 3)

Product name: n-DodecyIbenzenesulfonic acid

		(Contd. of page 2)		
9 Physical and chemical properties	s	(1111)		
Information on basic physical and chemical properties				
General Information Appearance:				
Form:	Liquid			
Color: Odor:	Pale yellow Odorless			
Odor threshold:	Not determined.			
pH-value:	Not determined.			
Change in condition	10 °C (F0 °F)			
Melting point/Melting range: Boiling point/Boiling range:	10 °C (50 °F) 315 °C (599 °F)			
Sublimation temperature / start:	Not determined			
Flammability (solid, gaseous) Ignition temperature:	Not determined. Not determined			
Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion:	Not determined.			
Explosion limits:				
Lower: Upper:	Not determined Not determined			
Vapor pressure: Density at 20 °C (68 °F):	Not determined			
Density at 20 °C (68 °F): Relative density	1.2 g/cm³ (10.014 lbs/gal) Not determined.			
Vapor density	Not determined.			
Evaporation rate Solubility in / Miscibility with	Not determined.			
Water:	Not determined			
Partition coefficient (n-octanol/water) Viscosity:	: Not determined.			
dynamic: kinematic:	Not determined. Not determined.			
Other information	No further relevant information available.			
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: Bases Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide				
Sulfur oxides (SOx) 11 Toxicological information				
Information on toxicological effects Acute toxicity: Harmful if swallowed. Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification:				
Oral LD50 650 mg/kg (rat) Skin irritation or corrosion: Causes se	evere skin burns			
Eye irritation or corrosion: Causes se	prious eye damage.			
Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno	own.			
Carcinogenicity: No classification data Reproductive toxicity: No effects know	on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.			
Specific target organ system toxicity	- repeated exposure: No effects known.			
Specific target organ system toxicity Aspiration hazard: No effects known.	- single exposure: No effects known.			
Subacute to chronic toxicity: No effect	cts known. 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.				
Other adverse effects No further releva	ant information available.			
13 Disposal considerations				
Waste treatment methods				
Recommendation Consult state, local or national regulations to ensure proper disposal. (Contd. on page 4)				

(Contd. on page 4)

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Uncleaned packagings: Recommendation: Disposal must be made according to official	I regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN2586	
UN proper shipping name DOT	Alled sulfania saida liquid	
IMDG, IATA	Alkyl sulfonic acids, liquid ARYLSULPHONIC ACIDS, LIQUID	
Transport hazard class(es)		
DOT		
Class	8 Corrosive substances.	
Label Class	8 8 (C3) Corrosive substances	
Label IMDG, IATA	8	
Class	8 Corrocivo substancos	
Label	8 Corrosive substances. 8	
Packing group DOT, IMDG, IATA	III	
Environmental hazards:	Not applicable.	
Special precautions for user EMS Number:	Warning: Corrosive substances F-A,S-B	
Segregation groups Transport in bulk according to Annex II of MARPOL73/78 an	Acids ad the IBC Code Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	UN2586, Alkyl sulfonic acids, liquid (n-Dodecylbenzenesulfonic acid), 8, III	
Safety, health and environmental regulations/legislation spe GHS label elements The product is classified and labeled in acc Hazard pictograms		
GHS05 GHS07 Signal word Danger Hazard statements H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/s P303+P361+P353 If on skin (or hair): Take off immediately all cc	pray. ontaminated clothing. Rinse skin with water/shower	
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P501 Dispose of contents/container in accordance National regulations	with local/regional/national/international regulations.	
All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. 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.		
California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not 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:	ted.	
For use only by technically qualified individuals. This product is subject to the reporting requirements of section 3	313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372. EACH Regulations (EC) No. 1907/2006. Substance is not listed. nnex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the	
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation Chemical safety assessment: A Chemical Safety Assessment	on for use) Substance is not listed. has not been carried out.	
	other information gathered by them, and should make independent judgement of suitability of this ety of employees. This information is furnished without warranty, and any use of the product not in ation with any other product or process, is the responsibility of the user.	
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	(Contd. on page 5	

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 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)

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USA