

Safety Data Sheet per OSHA HazCom 2012

Review	ed on 09/16/2009
1 Identification	
Product identifier Product name: 2,5-Dimethylphenylacetonitrile	
Stock number: L01942 CAS Number: 16213-85-7 EC number: 240-339-3	
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	
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 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)	
GHS06 Skull and crossbones	
Acute Tox. 3 H331 Toxic if inhaled.	
GHS07	
Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H312 Harmful in contact with skin. 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	
GHS06	
Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. Precautionary statements P261 Wird breathing dust/fume/gas/mist/vapours/spray.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P311 Call a POISON CENTER/doctor/ P405 Store locked up.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D1B - Toxic material causing immediate and serious toxic effects	
Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) HEALTH 2 Health (acute effects) = 2 FRE 1 Flammability = 1 REACTIVIT 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: 16213-85-7 2,5-Dimethylphenylacetonitrile Identification number(s): EC number: 240-339-3	
4 First-aid measures	
Description of first aid measures After inhalation Supply track of it is finguized provide artificial respiration. Keen patient warm	
Supply fresh air. If required, provide artificial respiration. Keep patient warm.	(Contd. on page 2) USA

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Seek immediate medical advice.		(Contd. of page 1)
After skin contact Immediately wash with water and soap a	and rinse thoroughly.	
Seek immediate medical advice.	r several minutes under running water. Then consult a doctor.	
After swallowing Seek medical treatme Information for doctor	ent.	
Most important symptoms and effects	s, both acute and delayed No further relevant information available.	
-	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 subs If this product is involved in a fire, the fol	llowing can be released:	
Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)		
Hydrogen cyanide (HCN) Advice for firefighters		
Protective equipment: Wear self-contained respirator.		
Wear fully protective impervious suit.		
6 Accidental release measures		
Personal precautions, protective equipment. Keep unpro	ipment and emergency procedures tected persons away.	
Ensure adequate ventilation	ow material to be released to the environment without proper governmental permits.	
Methods and material for containmen Dispose of contaminated material as wa	t and cleaning up:	
Ensure adequate ventilation.	-	
Prevention of secondary hazards: No Reference to other sections See Section 7 for information on safe ha	andling	
See Section 8 for information on person. See Section 13 for disposal information.	al protection equipment.	
· · · · · ·		
7 Handling and storage Handling		
Precautions for safe handling Keep container tightly sealed.		
Store in cool, dry place in tightly closed Ensure good ventilation at the workplace	containers.	
Information about protection against	explosions and fires: No information known.	
Conditions for safe storage, including Storage	g any incompatibilities	
Requirements to be met by storeroon	ns and receptacles: No special requirements. Imon storage facility: Store away from oxidizing agents.	
Further information about storage con Keep container tightly sealed.	nditions:	
Store in cool, dry conditions in well seale Specific end use(s) No further relevant	ed containers.	
8 Exposure controls/personal prote Additional information about design of		
Properly operating chemical fume hood	designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
	quire monitoring at the workplace: Not required.	
Additional information: No data Exposure controls		
Personal protective equipment General protective and hygienic meas		
The usual precautionary measures for h	andling chemicals should be followed.	
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	na teea. thing immediately.	
Wash hands before breaks and at the en Avoid contact with the eyes and skin.		
Maintain an ergonomically appropriate w Breathing equipment: Use suitable res	vorking environment. pirator when high concentrations are present.	
Protection of hands: Impervious gloves Check protective gloves prior to each us		
	(depends on the malenal, but also on quality . Quality will vary from manufacturer to manufacturer	
Penetration time of glove material (in Eye protection: Safety glasses Body protection: Protective work clothi	minutes) Not determined	
Body protection: Protective work clothi	ing.	
9 Physical and chemical properties		
Information on basic physical and che General Information	emical properties	
Appearance: Form:	Crystalline	
Color: Odor:	White Not determined	
Odor threshold:	Not determined.	
pH-value:	Not applicable.	(Contd. on page 3)
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	(Contd. o	of page 2)		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	27-29 °C (81-84 °F) 73 °C (163 °F) (1 mmHg) Not determined			
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not applicable Not determined. Not determined Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not determined. Not applicable. Not applicable.			
Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic:	Insoluble : Not determined. Not applicable. Not applicable.			
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 No dangerous reactions known				

Possibility of hazardous reactions No dangerous reactions k Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Hydrogen cyanide

11 Toxicological information

	Information on toxicological effects Acute toxicity: Harmful in contact with skin. Harmful in contact with skin. Harmful in swallowed. Toxic if inhaled. Danger through skin absorption. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Sensitization data on carcinogenic 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 exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Subacute to chronic toxicity: No effects known. Subacute to			
	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. 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.			
	Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.			
ī	14 Transport information			
h	UN-Number			

UN-Number DOT, IMDG, IATA

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Product name: 2,5-Dimethylphenylacetonitrile				
	(Contd. of page 3			
UN proper shipping name DOT	Nitriles, solid, toxic, n.o.s, (2.5-Dimethylphenylacetonitrile)			
IMDG, IATA	Nitriles, solid, toxic, n.o.s. (2,5-Dimethylphenylacetonitrile) NITRILES, SOLID, TOXIC, N.O.S. (2,5-Dimethylphenylacetonitrile)			
Transport hazard class(es) DOT				
Class	6.1 Toxic substances.			
Label Class	6.1 6.1 (T2) Toxic substances			
Label	6.1			
IMDG, IATA				
Class	6.1 Toxic substances.			
Label	6.1			
Packing group DOT, IMDG, IATA	11			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Toxic substances			
EMS Number: Transport in bulk according to Annex II of MARPOL73/78	F-A,S-Ă 8 and the IBC Code Not applicable			
Transport Additional information:				
DOT	A1-			
Marine Pollutant (DOT): UN "Model Regulation":	No UN3439, Nitriles, solid, toxic, n.o.s. (2,5-Dimethylphenylacetonitrile), 6.1, III			
Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P311 Call a POISON CENTER/doctor/ P405 Store locked up. P401 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 -				
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.				
6 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.				
Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Réglement international concernant le transport des marchandises dangere IATA-DER: Dangerous Goods Regulations by the "International Air Transport As	Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IdTA-DGR: Dangerouis Goods Regulations by the "International Air Transport Association" (IdTA)			
Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO) ICAO-II: Technical Instructions by the "International Civil Aviation Organization" (ICAO) 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 IATA: International Air Transport association IATA: International Air Transport association IATA: Code: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport association IATA: Internation Air Transport Association IATA: Inte				
EINECS: European Inventory of Existing Commercial Chemical Substances EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)				
	(Contd. on page			

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent vPvB: 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)

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USA ·