



	Revision uale 00/12/2010
1 Identification	
Product identifier Product name: Diethyl cyanomethylphosphonate	
Stock number:	
2537-48-6 EC number:	
219-806-0 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 (80	56) 928-0789.
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.	
Skin Irrit. 2 H315 Causes skin irritation.	
Eye Irrit. 2A H319 Causes serious eye 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	
GHS06	
Signal word Danger Hazard statements	
H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled.	
H315 Causes skin irritation. H319 Causes serious eye irritation.	
Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eve protection/face protection	
P280 Wear protective gloves/protective clothing/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. Continu P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P362 Take off contaminated clothing and wash before reuse.	ıe rinsing.
P362 Take off contaminated clothing and wash before reuse. P363 Wash contaminated clothing before reuse. P321 Specific treatment (see on this label).	
P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed.	
P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system HMIS ratings (scale 0-4)	
Health (acute effects) = 2	
FIRE I Flammability = 1 REACTIVITY I Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment PBT vote and verbacks	
PBT: Not applicable. vPvB: Not applicable.	USA
	(Contd. on page 2)

Product name: Diethyl cyanomethylphosphonate

(Contd. of page 1)

	(Contd. of page 1)
3 Composition/information on ingredients Chemical characterization: Substances CAS# Description:	
2537-48-6 Diethyl cyanomethylphosphonate Identification number(s): EC number: 219-806-0	
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.	
After eye contact Kinse opened eye for several minutes under funning 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. Harmful if swallowed. Causes serious eye irritation.	
Harmful in contact with skin. Toxic if inhaled. 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	
Hydrogen cyanide (HCN) Nitrogen oxides (NOx) Phosphorus oxides	
Advice for filefighters 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). 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 8 for information on personal protection equipment. 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 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. 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.	(Contd. on page 3)

(Contd. of page 2)

Product name: Diethyl cyanomethylphosphonate

Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) 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 (EL) and appropriate of the second standards such as NIOSH (USA) or

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. Eye protection: Safety glasses Body protection: Protective work clothing.

9 Physical and chemical properties

9 Filysical and chemical properties	
Information on basic physical and che General Information Appearance: Form: Odor: Odor: Odor threshold:	emical properties Liquid Not determined Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 132-135 °C (270-275 °F) (1.2mm) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	> 110 °C (> 230 °F) Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic: kinematic: Other information	Not determined. Not determined Not determined 1.094 g/cm³ (9.129 lbs/gal) Not determined. Not determined.

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: Oxidizing agents Hazardous decomposition products:

Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen cyanide Nitrogen oxides Phosphorus oxides (e.g. P2O5)

11 Toxicological information

Information on toxicological effects

Information on toxicological effects
Acute toxicity:
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: Causes skin irritation.
Eye irritation or corrosion: Causes serious eye irritation.
Germ cell mutagenicity: No effects known.
Garcinogenicity: No effects known.
Specific target organ system toxicity - repeated exposure: No effects known.
Specific target organ system toxicity - single exposure: 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.
Carcinogenic categories Carcinogenic categories OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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.

Safety Data Sheet

Additional ecclogical information:		Revision date 08/12/2010	
Additional ecological information: Constant of the economic and the econom	Product name: Diethyl cyanomethylphosphonate		
13 Disposed considerations We commendation We commenda	General notes: Do not allow undiluted product or large quantities to reach ground Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable	(Contd. of page 3) water, water course or sewage system.	
UN-Number OD 07, MIOS, LitTA UN2778 UN proper shipping name OD 7, MIOS, LitTA Organophraphoraphoras compound, liquid, toxic, n.a.s. (Diethyl Organophraphoras) Transport hazard class(es) Organophraphoras) OT Second Class(es) Ots Second Class(es) Second Class(es) Second Class(es) <th>13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings:</th> <th></th>	13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to e Uncleaned packagings:		
DOT, MOG, ATA UM3278 UM groper shipping name Organophosphoras compound, liquid, toxic, n.o.s. (Diethyl Organophosphoras) MOG, ATA Organophosphoras compound, liquid, toxic, n.o.s. (Diethyl Organophosphoras) Transport hazard class(es) Organophosphoras DOT Image: Compound of the second	14 Transport information		
DOT Organophosphorus compound flugids, coke, n.o.s. (Dethyl Great-August Coke Point Sciences (Science) Transport heard class(es) Organophosphorus compound flugids, CokePoUND, LIQUID, TOXIC, N.O.S. (Dethyl Great-August CokePoint) Transport heard class(es) Organophosphorus compound flugids, CokePoUND, LIQUID, TOXIC, N.O.S. (Dethyl Great-August CokePoint) Class Label 6.1 Transport hould heards: Not applicable. Special presentions for user Warning: Toxic substances. Transport Additional Information: Not applicable. Dorf MGC, INTA With applicable. Transport Additional Information: Not applicable. Transport Additional Information: Not applicable. Transport Additional Information: Not applicable. Special presents: The product is classified and labeled in accordance with 29 CFR 1910 [OSHA HCS] With Wedel Regulation*: UN3278. Organophosphorus compound. liquid, toxic. n.o.s. (Diethyl Cyaromethylphosphorus) Special presents: The product is classined and labeled in accordance with 29 CFR 1910 [OSHA		UN3278	
Transport hazard class(es) Operating (n) procession (n) procesta	DOT	Organophosphorus compound, liquid, toxic, n.o.s. (Diethyl cyanomethylphosphonate)	
DOT		ORGANOPHOSPHORUS COMPOUND, LIQUID, TOXIC, N.O.S. (Diethyl cyanomethylphosphonate)	
Label Class	DOT		
Label MIDG, IATA 6.1 Class 6.1 Toxic substances. Label 6.1 Dot, IMDG, IATA III Environmental hazards: Not applicable. Special precautions for user Warning: Toxic substances EMS Munibus Contractions FA3.5A Transport in bulk according to Annex II of MARPOLT3/T8 and the IBC Code Not applicable. Transport Additional Information: DOT Marine Pollutant (DOT): No UN Woold Regulation*: UN3278, Organophosphorus compound, liquid, toxic, n.o.s. (Diethyl cyanomethylphosphorate), 6.1, III Stergy, health and environmental regulations/legislation specific for the substance or mixture GMS table terments The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms Wood Fast and subset on the contact with skin. Hard Politicart (Jobor) No Marine Politicart (Doting and wash on the contact with skin. Hard Charger Statements Fast and subset on contact with skin. Hard Politicart (Jobor) Wear product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hard State on the contact with skin. Fast and subset on the contact with skin. Hard State on the contain ted octing and wash before reuse. Fast and subset on contact with skin. </th <th>Label</th> <th>6.1</th>	Label	6.1	
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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 Soften Softe	UN "Model Regulation":	UN3278, Organophosphorus compound, liquid, toxic, n.o.s. (Diethyl cyanomethylphosphonate), 6.1, Ill	
H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. H316 Causes skin irritation. H317 Causes serious eye irritation. Precautionary statements Percentionary statements P280 Wear protective gloves/protective cothing/eye 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 victim to fresh air and keep at rest in a position comfortable for breathing. P303 Wash contaminated clothing before reuse. P303 Wash contaminated clothing before reuse. P311 Specific treatment (see on this label). P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 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 is not listed on the Canadian Domestic Substances List (NDSL). <th>GHS label elements The product is classified and labeled in acco Hazard pictograms GHS06 Signal word Danger</th> <th><i>ific for the substance or mixture</i> rdance with 29 CFR 1910 (OSHA HCS)</th>	GHS label elements The product is classified and labeled in acco Hazard pictograms GHS06 Signal word Danger	<i>ific for the substance or mixture</i> rdance with 29 CFR 1910 (OSHA HCS)	
SARA Section 313 (specific toxic chemical listings) Substance is not listed.	H302+H312 Harmful if swallowed or in contact with skin. H311 Toxic if inhaled. H315 Causes skin irritation. H316 Causes serious eye irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/sp P280 Wear protective gloves/protective clothing/eye P305+P351+P388 IF IN EYES: Rinse cautiously with water for ser P304+P340 IF INHALED: Remove victim to fresh air and ke P362 Take off contaminated clothing and wash befor P363 Wash contaminated clothing before reuse. P321 Specific treatment (see on this label). P405 Store locked up. P403+P233 Store in a well-ventilated place. Keep containe. P501 Dispose of contents/container in accordance w National regulations This product in sol listed in the U.S. Environmental Protection Age This product is not listed in the U.S. Environmental Protection Age To product in sol listed in the U.S. Environmental Protection Age	protection/face protection. veral minutes. Remove contact lenses, if present and easy to do. Continue rinsing. sep at rest in a position comfortable for breathing. re reuse. r tightly closed. ith local/regional/national/international regulations. ency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restricted or directly under the supervision of a technically qualified individual as defined by TSCA. This	
	This product is not listed on the Canadian Domestic Substances L SARA Section 313 (specific toxic chemical listings) Substance	ist (DSL) or the Canadian Non-Domestic Substances List (NDSL). is not listed. USA	

USA

Product name: Diethyl cyanomethylphosphonate

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. (Contd. of page 4) 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 Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/16/2016 / - Abbreviations and acronym: 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 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 EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Information System (Canada) LC50: Lethal concentration. 50 percent LD50: Lethal concentration. 50 percent LD50: Lethal concentration. 50 percent LD50: Lethal dove, 50 percent LD50: Lethal dove, 50 percent LD50: Lethal dove, for percent LD50: Lethal dove, for Research on Cancer EPA: Environmental Protection Agency (USA) Acute Tox. 4: Acute Tox 4: Category 4 Eye Intt. 24: Serious eye damage/eye Initiation, Hazard Category 2 Eye Intt. 24: Serious eye damage/eye Initiation, Hazard Category 2A