

Safety Data Sheet per OSHA HazCom 2012

	ea on 12/11/2010
1 Identification	
Product identifier Product remove 2 (4 Cycenophenyl) propionie coid	
Product name: <u>3-(4-Cyanophenyl)propionic acid</u>	
Stock number: H34297 CAS Number:	
42287-94-5 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	
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) 928-0	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. 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	
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.	
H335 May cause respiratory irritation. Precautionary statements	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. 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. 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	
D1B - Toxic material causing immediate and serious toxic effects D2B - Toxic material causing other toxic effects	
Classification system	
HMIS ratings (scale 0-4) (Hazardous Materials Identification System)	
HEALTH 2 FIRE I Flammability = 1	
REACTIVITY Physical Hazard = 1	
Other hazards Results of PBT and vPvB assessment	
PBT: Not applicable.	
3 Composition/information on ingredients	
Chemical characterization: Substances CAS# Description:	
42287-94-5 3-(4-Cyanophenyl)propionic acid	USA -
	(Contd. on page 2

Product name: 3-(4-Cyanophenyl)propionic acid

	(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.	
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 No further relevant information available.	
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	
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 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:	
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.	
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: Not required. 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 áll soiled and contaminated clothing immediately. 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. 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. Penetration time of glove material (in minutes) Not determined	
Eye protection: Safety glasses Body protection: Protective work clothing.	
9 Physical and chemical properties Information on basic physical and chemical properties	
General Information Appearance:	
Form: Powder Color: White	
	(Contd. on page 3)
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Product name: 3-(4-Cyanophenyl)propionic acid

Product name: 3-(4-Cyanophenyl) p	ropionic acid		
		(Contd. of page 2)	
Odor: Odor threshold:	Not determined Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	Not determined Not determined Not determined 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 Water: Partition coefficient (n-octanol/wated Viscosity: dynamic:	Product does not present an explosion hazard. Not determined Not determined Not applicable. Not determined. Not determined. Not applicable. Not applicable. Not determined Not determined. Not determined. Not determined. Not determined. Not determined.		
kinematic: Other information	Not applicable. No further relevant information available.		
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 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 if swallowed. Toxic if inhaled. Danger through skin absorption. LD/L C50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes skin irritation. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No effects known. Germ cell mutagenicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Abgiration 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 information available.			
Persistence and degradability No fu Bioaccumulative potential No further Mobility in soil No further relevant inf Additional ecological information: General notes: Do not allow material to be released to	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. e quantities to reach ground water, water course or sewage system. nt		

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. 14 Transport information

UN-Number DOT, IMDG, IATA

UN3439

(Contd. on page 4) USA

Safety Data Sheet per OSHA HazCom 2012

Product name: 3-(4-Cyanophenyl)propionic acid	Product name: 3-(4-Cvanophenvl)propionic acid			
	(Contd. of page 3)			
UN proper shipping name DOT	Nitriles solid toxic nos (3-(4 Cyanophenyl)propionic acid)			
IMDG, IATA	Nitriles, solid, toxic, n.o.s. (3-(4-Cyanophenyl)propionic acid) NITRILES, SOLID, TOXIC, N.O.S. (3-(4-Cyanophenyl)propionic acid)			
Transport hazard class(es)				
DOT				
Class	6.1 Toxic substances.			
Label Class	6.1 6.1 (T2) Toxic substances			
Label	6.1			
IMDG, IATA				
< <u>*</u> >				
Class Label	6.1 Toxic substances. 6.1			
Packing group DOT, IMDG, IATA	III			
Environmental hazards:	Not applicable.			
Special precautions for user	Warning: Toxic substances			
Transport in bulk according to Annex II of MARPOL73/7	8 and the IBC Code Not applicable.			
Transport/Additional information:				
DOT Marine Pollutant (DOT):	No			
UN "Model Regulation":	UN3439, Nitriles, solid, toxic, n.o.s. (3-(4-Cyanophenyl)propionic acid), 6.1, III			
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GHS06 Signal word Danger Hazard statements Hazard statements Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H335 Causes serious eye irritation. H316 Causes serious eye irritation. H317 Causes seriour systements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clohing/eye protection/face protection. P305+P351+P338 IF IN EYSS: Rise cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYSS: Rise cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYSS: Rise cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYSS: Rise cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P305+P351+P338 IF IN EYSS: Rise 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. 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 restrict to research and development only. This product must be used for or oincreial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listed). Prop 65 Developmental toxicity, female Substance is not listed. Prop 65 Developmental toxicity, female Substance is not listed. Prop 65 Developmental toxicity, female Substance is not listed. Prop 65 Developmental toxicity, female Substance is not listed. Prop 65 Developmental toxicity, female Substance is not listed. Prop 65 Developmental toxicity, female S				
information to ensure proper use and protect the health and conformance with this Material Safety Data Sheet, or in com Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015 / -	t to other information gathered by them, and should make independent judgement of suitability of this safety of employees. This information is furnished without warranty, and any use of the product not in bination with any other product or process, is the responsibility of the user.			
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" ADR: Accord européen sur le transport des marchandises dangereuses par Rou IMDC: International Maritime Code for Dangerous Goods DOT: US Department of Transportation	reuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) issociation" (IATA) " (ICAO) ute (European Agreement concerning the International Carriage of Dangerous Goods by Road)			

IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society)

(Contd. on page 5)

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HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent DS0: Lethal dose, 50 percent VPUB: 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) IAPC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

(Contd. of page 4)

USA