

# **2-Amino-2-(4-fluorophenyl)acetonitrile** Safety Data Sheet 3637364 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/07/2016 Version: 1.0

SECTION 1: Identification	
I.1. Identification	
Product form	: Substance
Substance name	: 2-Amino-2-(4-fluorophenyl)acetonitrile
CAS No	: 56464-70-1
Product code	: 3637-3-64
Formula	: C8H7FN2
Other means of identification	: MFCD00236207
.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Jse of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
1.3. Details of the supplier of the safe	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - <u>www.synquestlabs</u>	
I.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identification	on
2.1. Classification of the substance of	
	ST MIXTURE
Classification (GHS-US) Acute Tox. 3 (Oral) H301 - Toxic if s	
Skin Irrit. 2 H315 - Causes s Eye Irrit. 2A H319 - Causes s	
STOT SE 3 H335 - May cau Full text of H-phrases: see section 16	se respiratory irritation
STOT SE 3       H335 - May cau         Full text of H-phrases: see section 16         2.2.       Label elements	
STOT SE 3 H335 - May cau Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling	se respiratory irritation
STOT SE 3 H335 - May cau Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	se respiratory irritation : GHS06 $GHS07GHS07$
STOT SE 3 H335 - May cau Full text of H-phrases: see section 16	se respiratory irritation
STOT SE 3 H335 - May cau Full text of H-phrases: see section 16 2.2. Label elements GHS-US labeling Hazard pictograms (GHS-US)	<ul> <li>se respiratory irritation</li> <li>: i i i i i i i i i i i i i i i i i i</li></ul>

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

No additional information available           C4.         Unknown acute toxicity (GHS US)           Vet applicable         Substance           SECTION 3: Composition/information on ingredients         Substance           Substance         Substance           Substance         Product identifier         %         Classification (GHS-US)           Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1           Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD2           Substance         Mixture         Statistication (GHS-US)         Acute Tox: 3 (DRI), HSD2           Value contraination         If CAS ND 56464-70-1         acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2           Substance         Mixture         Statistication (GHS-US)         Acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2         Statistication (GHS-US)           Section 16         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)           Section 16         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)           Statistication Contraination on tot         In case of accident or if you feel unwell, seek medical advice attention.         Statistication (SHS)	ccording to Federal Register / Vol. 77, No. 58 / Monday	y, March 26,	2012 / Rules and Regulations		
No additional information available           C4.         Unknown acute toxicity (GHS US)           Vet applicable         Substance           SECTION 3: Composition/information on ingredients         Substance           Substance         Substance           Substance         Product identifier         %         Classification (GHS-US)           Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1           Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD1         Acute Tox: 3 (DRI), HSD2           Substance         Mixture         Statistication (GHS-US)         Acute Tox: 3 (DRI), HSD2           Value contraination         If CAS ND 56464-70-1         acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2           Substance         Mixture         Statistication (GHS-US)         Acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2         Acute Tox: 3 (DRI), HSD2         Statistication (GHS-US)           Section 16         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)           Section 16         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)         Statistication (SHS)           Statistication Contraination on tot         In case of accident or if you feel unwell, seek medical advice attention.         Statistication (SHS)		<ul> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P337+P313 - If eye irritation persists: Get medical advice/attention</li> <li>P361 - Take off immediately all contaminated clothing</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse</li> <li>P363 - Wash contaminated clothing before reuse</li> <li>P403+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P405 - Store locked up</li> </ul>			
24.       Unknown acute toxicity (GHS US)         Vict apricable         SECTION 3: Composition/information on ingredients         31.       Substance         Substance type       : Mono-constituent         Mame         Product identifier         10.       Acute Tox: 3 (Dena), H311 Acute Tox: 4 (Dena) H312 (Deca) H323 (Deca) H3	2.3. Other hazards				
Not applicable SECTION 3: Composition/Information on ingredients Substance type is Mono-constituent           Name         Product identifier         %         Classification (0HS-US)           2.Amice 24/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 56464-70-1         %         Classification (0HS-US)           2.Amice 74/4 lucoopennyllacetonistile         If CAS No 5	No additional information available				
Substance Subst	2.4. Unknown acute toxicity (GHS US)				
Substance       Substance         Substance type       : Mono-constituent         Name       Product identifier       %       Classification (GHS-US)         2 Arriso-24 (Alburophenyl)acetonitrie       [CAS No) 56464-70-1       c= 100       Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 4 (Dormal) H313 Acuse Tox 4	Not applicable				
Substance       Substance         Substance type       : Mono-constituent         Name       Product identifier       %       Classification (GHS-US)         2 Arriso-24 (Alburophenyl)acetonitrie       [CAS No) 56464-70-1       c= 100       Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 3 (Dormal) H301 Acuse Tox 4 (Dormal) H313 Acuse Tox 4	SECTION 3: Composition/information	on on in	gredients		
Name         Product identifier         %         Classification (GHS-US)           2-Amino-2-44-fluorophenyljacetonitrile         (CAS No) 56464-70-1         = 100         Actue Tox.3 (Oral), H301           Actue Tox.3 (Oral), H301         Actue Tox.3 (Oral), H301         Actue Tox.3 (Oral), H301           Main consiluent)         (CAS No) 56464-70-1         = 100         Actue Tox.3 (Oral), H301           String Tor Set 3, H315         Eye Int. 2A, H315         Eye Int. 2A, H315         Eye Int. 2A, H315           String Tor Set 3, H323         String Tor Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         String Tor Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         String Tor Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         String Tor Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         Experiment Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         Experiment Set 3, H335           String Tor Set 3, H335         Experiment Set 3, H335         Experiment Set 3, H335			5		
2-Amino-2:(Hurorphenyl)acetonitrile (Main constituent)       (CAS No) 56464-70-1       C= 100       Acute Tox 3 (Drain), H301         Main constituent)       Acute Tox 3 (Drain), H301       Acute Tox 3 (Drain), H301         Main constituent)       Acute Tox 3 (Drain), H301       Acute Tox 3 (Drain), H301         Visit (ext of H-phrases: see section 16       Stort SE 3, H335         Stort SE 3, H335       Stort SE 3, H335         Full text of H-phrases: see section 16       Stort SE 3, H335         Stort SE 3, H335	Substance type	: Mono	-constituent		
2.Amino-2:(Hurorphenyl)acetonitrile (Mem consistent)       (CAS No) 56464-70-1       C= 100       Acute Tox 3 (Dra), H301         Mem consistent)       Acute Tox 3 (Dra), H301       Acute Tox 3 (Dra), H301         Mem consistent)       Acute Tox 3 (Dra), H301       Acute Tox 3 (Dra), H301         Mem consistent)       Stort SE 3, H335       Stort SE 3, H335         Full text of H-phrases: see section 16       Stort SE 3, H335         3.2.       Mixture         Not applicable       Stort SE 3, H335         SECTION 4; First aid measures       First-aid measures general         : Tirst-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         : First-aid measures after skin contact       : Wash with plenty of soap and water. Get immediate medical advice/attention.         : First-aid measures after eve contact       : Immediately lush eves thoroughly with water for at least 15 minutes. Remove contact lenses, if present and desy to do. Continue insing. Get immediate medical advice/attention.         : First-aid measures after ingestion       : Do NOT induce vomiling, Never give anythying by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         : First-aid measures after ingestion       : Do NOT induce vomiling, Never give anythying by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice	Name		Product identifier	%	Classification (GHS-US)
3.2.       Mixture         Vot applicable       SECTION 4: First aid measures         First-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing, If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after skin contact       : Wash with plenty of scap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce voritiing. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce voritiing. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         4.3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.       Ectronon	2-Amino-2-(4-fluorophenyl)acetonitrile				Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Not applicable SECTION 4: First aid measures First-aid measures First-aid measures general i In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area. First-aid measures after inhalation i Remove person to fresh air and keep comforable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention. First-aid measures after skin contact Wash with plenty of soap and water. Get immediate medical advice/attention. First-aid measures after inpestion First-aid measures after rigestion First-aid measures after ingestion First-aid measures after ingestion First-aid measures after ingestion First-aid measures First-Aid Measur	Full text of H-phrases: see section 16				
SECTION 4: First aid measures         1.1       Description of first aid measures         First-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after eye contact       : Wash with plenty of scap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce vormiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         Attention of any immediate medical attention and special treatment needed       :1         Treat symptomatically.       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         S2.       Special hazards arising from the substance or mixture       :         Firefighting instructions       : In case of fire: Evacuate area.         */*       : Uwar gas tight chemically protective clothing in combination with self contained breathing apapratus. For further information refer to sect					
1.       Description of first aid measures         First-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after skin contact       : Wash with plenty of soap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce voniting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         first-aid measures after ingestion       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         first-aid measures       : A cohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         first-aid measures       : In case of fire: Evacuate area.         fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         first-aid measures       : In case of fire: Evacuate area.         fire hazard       : In ca					
First-aid measures general       : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after eye contact       : Wash with plenty of soap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         L2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         L3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         L3.       Special hazards arising from the substance or mixture         Firefighting instructions       : In case of fire: Evacuate area.         Symptom firefighting	SECTION 4: First aid measures				
where possible). Move the affected personnel away from the contaminated area.         First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after skin contact       : Wash with plenty of soap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinning. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         L2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         L3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         S.1.       Extinguishing media       : Alcohol resistant foam. Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         S.2.       Special hazards arising from the substance or mixture       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         S.3					
First-aid measures after inhalation       : Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.         First-aid measures after skin contact       : Wash with plenty of soap and water. Get immediate medical advice/attention.         First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         A.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         R.3.       Indication of any immediate medical attention and special treatment needed         Freat symptomatically.       :         EECTION 5: Firefighting measures       :         Suitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         S.2.       Special hazards arising from the substance or mixture         Firefighting instructions       : In case of fire: Evacuate area.         * Torterial decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.	First-aid measures general				
First-aid measures after eye contact       : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.         First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         Indication of any immediate medical attention and special treatment needed       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         Indication of any immediate medical attention and special treatment needed       : Alcohol resistant foram. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Suitable extinguishing media       : Alcohol resistant foram. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Suitable extinguishing media       : Incase of fire: Evacuate area.         Firefighting instructions       : In case of fire: Evacuate area.         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8. "Exposure controls/personal protection".         Sector of the cause measures       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8. "Exposure controls/personal p	First-aid measures after inhalation	: Remo	ove person to fresh air and keep comfort	able for breathir	
First-aid measures after ingestion       : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.         4.2.       Most important symptoms and effects, both acute and delayed         Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         4.3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.         SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3.       Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures       Exposure controls/personal protection".	First-aid measures after skin contact	: Wash	with plenty of soap and water. Get imm	ediate medical a	advice/attention.
Induction of any immediate medical attention and special treatment needed         Symptoms/injuries       The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         I.3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.       ECTION 5: Firefighting measures         Solutable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Solutable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Solutable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Solutable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         Solutable extinguishing media       : Alcohol resistant foam. Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         Solutable extinguishing media       : In case of fire: Evacuate area.         Solutable exting firefighting       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental r	First-aid measures after eye contact				
Symptoms/injuries       : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.         4.3.       Indication of any immediate medical attention and special treatment needed         Treat symptomatically.         SECTION 5: Firefighting measures         5.1.       Extinguishing media         Suitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3.       Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing appraratus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         6.1.       Personal precautions, protective equipment and emergency procedures	First-aid measures after ingestion				
2.2) and/or in section 11.         4.3. Indication of any immediate medical attention and special treatment needed         Treat symptomatically.         SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3. Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         8.1. Personal precautions, protective equipment and emergency procedures	4.2. Most important symptoms and effe	ects, both	acute and delayed		
Treat symptomatically.         SECTION 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         Suitable extinguishing media         S.2. Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3. Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         S.1. Personal precautions, protective equipment and emergency procedures	Symptoms/injuries			ects are describ	ed in the labelling (see section
Section 5: Firefighting measures         5.1. Extinguishing media         Suitable extinguishing media         Suitable extinguishing media         : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         5.2. Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3. Advice for firefighters       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         S.1. Personal precautions, protective equipment and emergency procedures		al attentio	n and special treatment needed		
Suitable extinguishing media       : Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.         S.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         S.3.       Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         S.1.       Personal precautions, protective equipment and emergency procedures					
appropriate for surrounding fire.         5.2.       Special hazards arising from the substance or mixture         Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3.       Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         S.1.       Personal precautions, protective equipment and emergency procedures	5.1. Extinguishing media				
Fire hazard       : Thermal decomposition generates: Carbon oxides. Hydrogen fluoride. Nitrogen oxides.         5.3.       Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         6.1.       Personal precautions, protective equipment and emergency procedures	Suitable extinguishing media			owder. Water sp	oray. Use extinguishing media
5.3. Advice for firefighters         Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         6.1. Personal precautions, protective equipment and emergency procedures	5.2. Special hazards arising from the su	ubstance	or mixture		
Firefighting instructions       : In case of fire: Evacuate area.         Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         S.1.       Personal precautions, protective equipment and emergency procedures	ire hazard	: Therr	nal decomposition generates: Carbon ox	ides. Hydrogen	fluoride. Nitrogen oxides.
Protection during firefighting       : Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".         SECTION 6: Accidental release measures         6.1.       Personal precautions, protective equipment and emergency procedures	.3. Advice for firefighters				
apparatus. For further information refer to section 8: "Exposure controls/personal protection". SECTION 6: Accidental release measures 3.1. Personal precautions, protective equipment and emergency procedures	Firefighting instructions	: In cas	se of fire: Evacuate area.		
6.1. Personal precautions, protective equipment and emergency procedures	Protection during firefighting				
General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust.					
	General measures	: Evac	uate unnecessary personnel. Ensure ade	equate air ventil	ation. Do not breathe dust.

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6.1.1. For non-emergency pers	sonnel
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency respond	ers
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precaution	ons
Avoid release to the environment. N	lotify authorities if product enters sewers or public waters.
6.3. Methods and material fo	or containment and cleaning up
For containment	: Stop leak if safe to do so.
Methods for cleaning up	: Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.
Other information	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".
6.4. Reference to other secti	ons
No additional information available	
SECTION 7: Handling and	storage
7.1. Precautions for safe har	ıdling
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe dust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe stor	age, including any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible materials	: Refer to Section 10 on Incompatible Materials.
Storage area	: Store in dry, cool, well-ventilated area.

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory Protection.
Other information	: Safety shoes. 29 CFR 1910.136: Foot Protection.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Solid
Color	: No data available
Odor	: No data available
Odor threshold	: No data available
рН	: No data available
Melting point	: 77.9 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 98 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available

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Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 150.15 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

### 9.2. Other information

No additional information available

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

## 10.4. Conditions to avoid

Keep away from heat, sparks and flame.

#### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Strong reducing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity

: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Harmful if inhaled.

2-Amino-2-(4-fluorophenyl)acetonitrile (56464-70-1)			
ATE US (oral)	100.000 mg/kg body weight		
ATE US (dermal)	300.000 mg/kg body weight		
ATE US (gases)	4500.000 ppmV/4h		
ATE US (vapors)	11.000 mg/l/4h		
ATE US (dust, mist)	1.500 mg/l/4h		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
Respiratory or skin sensitization	: Not classified		
Germ cell mutagenicity	: Not classified		
Carcinogenicity	: Not classified		
Reproductive toxicity	: Not classified		
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.		
Specific target organ toxicity (repeated exposure)	: Not classified		
Aspiration hazard	: Not classified		
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SECT	ION 12: Ecological information
12.1.	Toxicity
No add	itional information available
12.2.	Persistence and degradability
No add	itional information available
12.3.	Bioaccumulative potential
No add	itional information available
12.4.	Mobility in soil
No addi	itional information available
12.5.	Other adverse effects
	itional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.	
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	
Additional information	: Recycle the material as far as possible.	

# **SECTION 14: Transport information**

#### **Department of Transportation (DOT)**

In accordance with DOT Transport document description

#### UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)

- : UN3439 Nitriles, solid, toxic, n.o.s., 6.1, III
- : UN3439
- : Nitriles, solid, toxic, n.o.s.
- : 6.1 Class 6.1 Poisonous materials 49 CFR 173.132
- : 6.1 Poison



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).
  IP3 Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
  - T1 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153 DOT Quantity Limitations Passenger aircraft/rail : 100 kg (49 CFR 173.27)

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DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 3439
Proper Shipping Name (IMDG)	: NITRILES, SOLID, TOXIC, N.O.S.
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3439
Proper Shipping Name (IATA)	: Nitriles, toxic, solid, n.o.s.
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: III - Minor Danger
SECTION 15: Regulatory information	n
15.1. US Federal regulations	
All components of this product are listed, or exc Substances Control Act (TSCA) inventory exce	cluded from listing, on the United States Environmental Protection Agency Toxic

Substances Control Act (100A) inventory exception.		
2-Amino-2-(4-fluorophenyl)acetonitrile	CAS No 56464-70-1	100%

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### 15.2. International regulations

CANADA

No additional information available

**EU-Regulations** 

No additional information available

#### National regulations

No additional information available

## 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## **SECTION 16: Other information**

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Full text of H-phrases:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was aiven. NFPA fire hazard : 0 - Materials that will not burn. 0 NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. HMIS III Rating Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given Flammability : 0 Minimal Hazard - Materials that will not burn Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.