

ALPHA-ACETYLPHENYLACETONITRILE

Page: 1

Compilation date: 10/02/2015

Revision No: 1

Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name: ALPHA-ACETYLPHENYLACETONITRILE

CAS number: 4468-48-8

EINECS number: 224-737-4

Product code: OR7110

Synonyms: 2-OXO-1-PHENYLPROPYL CYANIDE

2-PHENYLACETOACETONITRILE

3-OXO-2-PHENYLBUTANENITRILE

1.2. Relevant identified uses of the substance or mixture and uses advised against

### 1.3. Details of the supplier of the safety data sheet

Company name: Apollo Scientific Ltd

	Units 3 & 4
	Parkway
	Denton
	Manchester
	M34 3SG
	UK
Tel:	0161 337 9971
Fax:	0161 336 6932
Email:	david.tideswell@apolloscientific.co.uk

### 1.4. Emergency telephone number

### Section 2: Hazards identification

2.1. Classification of the substance or mixture				
Classification under CHIP:	Xn: R20/21/22; Xi: R36/37/38			
Classification under CLP:	Acute Tox. 4: H302+312+332; STOT SE 3: H335; Eye Irrit. 2: H319; Skin Irrit. 2: H315			
Most important adverse effects:	Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory			
	system and skin.			
2.2. Label elements				
Label elements under CLP:				
Hazard statements:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.			
	H315: Causes skin irritation.			
	H319: Causes serious eye irritation.			
	H335: May cause respiratory irritation.			
	[0	cont		

## ALPHA-ACETYLPHENYLACETONITRILE

Signal words:       Warning         Hazard pictograms:       GH307: Exclamation mark         Weine       Weine         Proceautionary statements:       P200: Do not breathe dust.         Hazard pictograms:       P200: On CENTER or doctor if you feel unwell.         Hazard symbols:       Harmint.         Weine protective glows/protective clothing/eye protection.       P31: Call a POISON CENTER or doctor if you feel unwell.         Label elements under CHIP:       Hazard symbols:       Harmint.         Weine Protective glows/protective clothing/eye protection.       R3073738: Irritating to eyes, respiratory system and skin.         2.3. Other hazards       P81: This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients       CAS numbs:       468-48-8         EINECS numbs:       468-48-8       EINECS numbs:       242-473-4         Section 4: First aid measures       Consult a doctor.       Drenkin doctor.         Maintonic       Geneticed skin with running water for 15 minutes or longer if substance is still octor.       Drenkin doctor.         Section 4: First aid measures       Consult a doctor.       Insalito::       Renove all contaminated clothes and footwear immediately unless stuck to skin.         Drenk the affected skin with running water for 15 minutes. Consult a doctor.       Insalito::       Renove all contaminated cl		Page: 2
<image/> Precautionary statements:       Precautionary statements:         Precaution of first aid measures:       Precautionary statements:         Precaution of first aid measures:       Precautionary statements:         Precaution Precaution Precaution of thome and contexer immediately unless stuck	Signal words:	Warning
P280: Wear protective gloves/protective clothing/eye protection.         P312: Call a POISON CENTER or doctor if you feel unwell.         Label elements under CHIP         Hazard symbols:         Farard symbols:         Farard symbols:         Risk phrases:         R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.         R36/37/38: Irritating to eyes, respiratory system and skin.         2.3. Other hazards         PBT:         This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         3.1. Substances         Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       4488-48-8         EINECS number:       224-737-4         Section 4: First aid measures       Intervention of first aid measures         A.1. Description of first aid measures       Intervention the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Ingestion:       Remove all contaminated clothes and footwear immediately unless stuck to skin.         Drenot the affected skin with running water for 10 minutes. Consult a doctor.       Ingestion: Remove assault with water. Do not induce vonting. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vonting. Consult a doctor.         Ingestion:	Hazard pictograms:	GHS07: Exclamation mark
P280: Wear protective gloves/protective clothing/eye protection.         P312: Call a POISON CENTER or doctor if you feel unwell.         Label elements under CHIP         Hazard symbols:         Farard symbols:         Farard symbols:         Risk phrases:         R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.         R36/37/38: Irritating to eyes, respiratory system and skin.         2.3. Other hazards         PBT:         This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         3.1. Substances         Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       4488-48-8         EINECS number:       224-737-4         Section 4: First aid measures       Intervention of first aid measures         A.1. Description of first aid measures       Intervention the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Ingestion:       Remove all contaminated clothes and footwear immediately unless stuck to skin.         Drenot the affected skin with running water for 10 minutes. Consult a doctor.       Ingestion: Remove assault with water. Do not induce vonting. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vonting. Consult a doctor.         Ingestion:		
P31: Call a POISON CENTER or doctor if you feel unwell.         Label elements under CHIP:         Hazard symbols:         Hazard Symbol:         Hazard Symbol:         Hazard Symbol:         Hazard Symbol:         Alter hazards         Definition:         PBT:         This substance is not identified as a PBT substance.         Section 3: Composition/Intorration on ingredients         Chemical identity:         ALPHA-ACETYLPHENYLACETONITRILE         CAS number:         24.737-4         Section 4: First aid measures         Skin contat:         Remove all contaminated clothes and footwear immediately unless stuck to skin.         Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Breschin:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Ingestion:       Wash out mouth with	Precautionary statements:	P260: Do not breathe dust.
Label elements under CHIP:         Hazard symbols:         Hazard symbols:         Hazard symbols:         Hazard symbols:         Hazard symbols:         Risk phrases:         Robit phrases:         Section 3: Composition/information on ingredients         Section 3: Composition/information on ingredients         Alsobatances         Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS numbe:       244:737-8         Section 1: First aid measures       Interview defected skin with running water for 10 minutes or longer if substance is still         Description of first aid measures       Interview with running water for 10 minutes or longer if substance is still         Main:       Remove all contaminated clothes and footwear immediately unless stuck to skin.         Description of first aid measures       Interview with running water for 10 minutes or longer if substance is still         Main:       Remove all contaminated clothes and footwear immediately unless. Consult a clother.         Reterime:       Reterime as obtin mouth with water. Do not induce vomiting. Consult a clother.         Inhelation:       Remo		P280: Wear protective gloves/protective clothing/eye protection.
Hazard symbols:       Harmful.         First phrases:       R20/21/22:         Hazards       R36/37/38:         Initiating to eyes, respiratory system and skin.         2.3. Other hazards         PBT:       This substance is not identified as a PBT substance.         Section 3: Composition/Information on ingredients         3.1. Substances         Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       4468-48-8         EINECS number:       224-737-4         Section 4: First aid measures       Internet intere internet internet internet internet internet internet		P312: Call a POISON CENTER or doctor if you feel unwell.
Risk phrases:       R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.         R36/37/38: Irritating to eyes, respiratory system and skin.         2.3. Other hazards         PBT:       This substance is not identified as a PBT substance.         Section 3: Composition/Information on ingredients         3.1. Substances         Chemical identify:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       2468-48-8         EINECS number:       224-737-4         Section 4: First aid measures	Label elements under CHIP:	
R36/37/38: Irritating to eyes, respiratory system and skin.         JET: This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         J. Substances         Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 4468-48-8 EINECS number: 224-737-4         Section 4: First aid measures         J. Length Colspan="2">Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 224-737-4         Section 4: First aid measures         J. Length Colspan="2">Automation of first aid measures         Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation: Remove casually from exposure ensuring one's own safety whilst doing so. Consult a doctor.         Skin contact: There may be irritation and redness at the site of contact.         Eye contact: There may be irritation and redness. The eyes may water profusely. Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach Batimary occur. There may be wortling.         Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. </th <th>Hazard symbols:</th> <th>Harmful.</th>	Hazard symbols:	Harmful.
R36/37/38: Irritating to eyes, respiratory system and skin.         JET: This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         J. Substances         Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 4468-48-8 EINECS number: 224-737-4         Section 4: First aid measures         J. Length Colspan="2">Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 224-737-4         Section 4: First aid measures         J. Length Colspan="2">Automation of first aid measures         Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation: Remove casually from exposure ensuring one's own safety whilst doing so. Consult a doctor.         Skin contact: There may be irritation and redness at the site of contact.         Eye contact: There may be irritation and redness. The eyes may water profusely. Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach Batimary occur. There may be wortling.         Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. </th <th></th> <th>×</th>		×
2.3. Other hazards         PBT: This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         3.1. Substances         Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 4468-48-8 EINECS number: 224-737-4         Section 4: First aid measures         4.1. Description of first aid measures         Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor. Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact: There may be irritation and redness at the site of contact.         Eye contact: There may be irritation and redness of the mouth and throat. Nausea and stomach pain may occur. There may be woriting.         Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.	Risk phrases:	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
PBT: This substance is not identified as a PBT substance.         Section 3: Composition/information on ingredients         3.1. Substances         Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE CAS number: 4468-48-8 EINECS number: 224-737-4         Section 4: First aid measures         4.1. Description of first aid measures         Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact: There may be irritation and redness at the site of contact.         Eye contact: There may be irritation and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.		R36/37/38: Irritating to eyes, respiratory system and skin.
Section 3: Composition/information on ingredients         3.1. Substances         Chemical identity: ALPHA-ACETYLPHENYLACETONITRILE         CAS number: 4468-48-8         EINECS number: 224-737-4         Section 4: First aid measures         ALD Description of first aid measures         Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion: Wash out mouth with water. Do not induce vorniting. Consult a doctor.         Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact: There may be irritation and redness. The eyes may water profusely.         Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.	2.3. Other hazards	
3.1. Substances         Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       4468-48-8         EINECS number:       224-737-4         Section 4: First aid measures       4.1. Description of first aid measures         Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed       Skin contact:         Skin contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	PBT:	This substance is not identified as a PBT substance.
Chemical identity:       ALPHA-ACETYLPHENYLACETONITRILE         CAS number:       4468-48-8         EINECS number:       224-737-4         Section 4: First aid measures         4.1. Description of first aid measures         Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin.         Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed       Skin contact:         There may be irritation and redness at the site of contact.       Eye contact:         Eye contact:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	Section 3: Composition/info	mation on ingredients
CAS number:       4468-48-8         EINECS number:       224-737-4         Section 4: First aid measures          4.1. Description of first aid measures          Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed          Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	3.1. Substances	
CAS number:       4468-48-8         EINECS number:       224-737-4         Section 4: First aid measures          4.1. Description of first aid measures          Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed          Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	Chemical identity:	ALPHA-ACETYLPHENYLACETONITRILE
Section 4: First aid measures         4.1. Description of first aid measures         Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed       Skin contact:         Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.		
4.1. Description of first aid measures         Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	EINECS number:	224-737-4
4.1. Description of first aid measures         Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	Section 4: First aid measures	3
Skin contact:       Remove all contaminated clothes and footwear immediately unless stuck to skin.         Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.         Eye contact:       Bathe the eye with running water for 15 minutes. Consult a doctor.         Ingestion:       Wash out mouth with water. Do not induce vomiting. Consult a doctor.         Inhalation:       Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact:       There may be irritation and redness at the site of contact.         Eye contact:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.		
Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.Eye contact:Bathe the eye with running water for 15 minutes. Consult a doctor.Ingestion:Wash out mouth with water. Do not induce vomiting. Consult a doctor.Inhalation:Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.4.2. Most important symptoms and effects, both acute and delayedSkin contact:There may be irritation and redness at the site of contact.Eye contact:There may be irritation and redness. The eyes may water profusely.Ingestion:There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.Inhalation:There may be irritation of the throat with a feeling of tightness in the chest.	4.1. Description of first aid m	easures
on skin. Consult a doctor.  Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.  Ingestion: Wash out mouth with water. Do not induce vomiting. Consult a doctor.  Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.  4.2. Most important symptoms and effects, both acute and delayed  Skin contact: There may be irritation and redness at the site of contact.  Eye contact: There may be irritation and redness. The eyes may water profusely.  Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.  Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.	Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
Eye contact:Bathe the eye with running water for 15 minutes. Consult a doctor.Ingestion:Wash out mouth with water. Do not induce vomiting. Consult a doctor.Inhalation:Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.4.2. Most important symptoms and effects, both acute and delayedSkin contact:There may be irritation and redness at the site of contact.Eye contact:There may be irritation and redness. The eyes may water profusely.Ingestion:There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.Inhalation:There may be irritation of the throat with a feeling of tightness in the chest.		Drench the affected skin with running water for 10 minutes or longer if substance is still
Ingestion:Wash out mouth with water. Do not induce vomiting. Consult a doctor.Inhalation:Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.4.2. Most important symptoms and effects, both acute and delayedSkin contact:There may be irritation and redness at the site of contact.Eye contact:There may be irritation and redness. The eyes may water profusely.Ingestion:There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.Inhalation:There may be irritation of the throat with a feeling of tightness in the chest.		on skin. Consult a doctor.
Inhalation:Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor. <b>4.2. Most important symptoms and effects, both acute and delayed</b> Skin contact:There may be irritation and redness at the site of contact.Eye contact:There may be irritation and redness. The eyes may water profusely.Ingestion:There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.Inhalation:There may be irritation of the throat with a feeling of tightness in the chest.	Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
doctor.         4.2. Most important symptoms and effects, both acute and delayed         Skin contact:         There may be irritation and redness at the site of contact.         Eye contact:       There may be irritation and redness. The eyes may water profusely.         Ingestion:       There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.         Inhalation:       There may be irritation of the throat with a feeling of tightness in the chest.	Ingestion:	Wash out mouth with water. Do not induce vomiting. Consult a doctor.
<ul> <li>4.2. Most important symptoms and effects, both acute and delayed</li> <li>Skin contact: There may be irritation and redness at the site of contact.</li> <li>Eye contact: There may be irritation and redness. The eyes may water profusely.</li> <li>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</li> <li>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</li> </ul>	Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a
<ul> <li>Skin contact: There may be irritation and redness at the site of contact.</li> <li>Eye contact: There may be irritation and redness. The eyes may water profusely.</li> <li>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</li> <li>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</li> </ul>		doctor.
<ul> <li>Eye contact: There may be irritation and redness. The eyes may water profusely.</li> <li>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</li> <li>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</li> </ul>	4.2. Most important symptom	s and effects, both acute and delayed
<ul><li>Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.</li><li>Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.</li></ul>	Skin contact:	There may be irritation and redness at the site of contact.
pain may occur. There may be vomiting. Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.	Eye contact:	There may be irritation and redness. The eyes may water profusely.
<b>Inhalation:</b> There may be irritation of the throat with a feeling of tightness in the chest.	Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach
		pain may occur. There may be vomiting.
	Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

### ALPHA-ACETYLPHENYLACETONITRILE

#### 4.3. Indication of any immediate medical attention and special treatment needed

#### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Carbon dioxide, dry chemical powder, foam. Suitable extinguishing media for the surrounding fire should be used.

#### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides (NOx).

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

#### 6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

### 6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate

method.

#### 6.4. Reference to other sections

#### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air. Only

use in fume hood.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

#### 7.3. Specific end use(s)

Specific end use(s): No data available.

### ALPHA-ACETYLPHENYLACETONITRILE

Page: 4

#### Section 8: Exposure controls/personal protection

#### 8.1. Control parameters

Workplace exposure limits: No data available.

### **DNEL / PNEC** No data available.

#### 8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area.	
Respiratory protection:	ection: Self-contained breathing apparatus must be available in case of emergency	
	Respiratory protective device with particle filter.	
Hand protection:	Protective gloves.	
Eye protection: Safety glasses. Ensure eye bath is to hand.		
Skin protection:	Protective clothing.	

#### Section 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

State: Powder

Colour: White

Melting point/range°C: 92-94

9.2. Other information

Other information: No data available.

#### Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

#### **10.6. Hazardous decomposition products**

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide. Nitrogen oxides

### ALPHA-ACETYLPHENYLACETONITRILE

**Page:** 5

#### Section 11: Toxicological information

#### **11.1. Information on toxicological effects**

**Toxicity values:** 

Route	Species	Test	Value	Units
INTRAPERITONEAL	MUS	LD50	200	mg/kg

#### Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH DRM ING	Based on test data
Skin corrosion/irritation	DRM	Based on test data
Serious eye damage/irritation	OPT	Based on test data
STOT-single exposure	INH	Based on test data

### Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

**Ingestion:** There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

### Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

### 12.2. Persistence and degradability

Persistence and degradability: No data available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

### 12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: No data available.

#### Section 13: Disposal considerations

### ALPHA-ACETYLPHENYLACETONITRILE

Disposal operations:	MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND	
	FEDERAL REGULATIONS	
Disposal of packaging:	Dispose of as special waste in compliance with local and national regulations Observe	
	all federal, state and local environmental regulations.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	
Section 14: Transport information		

### Se

13.1. Waste treatment methods

#### 14.1. UN number

UN number: UN3439

14.2. UN proper shipping name

Shipping name: NITRILES, SOLID, TOXIC, N.O.S.

14.3. Transport hazard class(es)

Transport class: 6.1

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

#### Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

> \* Data predicted using computational software. Toxtree - Toxic Hazard Estimation by decision tree approach.

Marine pollutant: No

http://ecb.jrc.ec.europa.eu/qsar/qsar-tools/index.php?c=TOXTREE

### ALPHA-ACETYLPHENYLACETONITRILE

		Page:	7
	~ Data predicted using computatioanl software ACD/ToxSuite v 2.95.1 Copyright		
	1994-2009 ACD/labs, Copyright 2001-2009 Pharma Algorithms, Inc, Advanced		
	Chemistry Development, Inc (ACD/Labs).		
	http://www.acdlabs.com/products/pc_admet/tox/tox/		
Phrases used in s.2 and 3:	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.		
	H315: Causes skin irritation.		
	H319: Causes serious eye irritation.		
	H335: May cause respiratory irritation.		
	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.		
	R36/37/38: Irritating to eyes, respiratory system and skin.		
Legal disclaimer:	The material is intended for research purposes only and should be handled exclusively		
	by those who have been fully trained in safety, laboratory and chemical handling		
	procedures. The above information is believed to be correct to the best of our		
	knowledge. The above information is believed to be correct to the best of our knowledge	е	
	at the date of its publication, but should not be considered to be all inclusive. It should		
	be used only as a guide for safe handling, storage, transportation and disposal. We		
	cannot guarantee that the hazards detailed in this document are the only hazards that		
	exist for this product. This is not a warranty and Apollo Scientific Ltd shall not be held		
	liable for any damage resulting from handling or from contact with the above product.		

[final page]