

SDS Expiry Date 3/29/2019

Safety Data Sheet - Version 5.0 Preparation Date 3/30/2016

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier

Chemical Name 4-Acetylphenyl Isocyanate

Catalogue # A188045

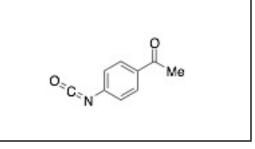
1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

+14166659696 between 0800-1700 (GMT-5)

Product Uses To be used only for scientific research and development. Not for use in humans or animals.

1.3 Details of the Supplier of the Safety Data Sheet

Company	Toronto Research Chemicals 2 Brisbane Road Toronto, ON M3J 2J8 CANADA
Telephone FAX Email	+14166659696 +14166654439 orders@trc-canada.com
1.4 Emergency Tel	ephone Number



WHMIS Symbols (Canada)

2. HAZARDS IDENTIFICATION WHMIS Classification (Canada)

Emergency#

D2B Toxic Material Causing Other Toxic Effects Moderate Skin irritant

Moderate Eye Irritant

2.1/2.2 Classification of the Substance or Mixture and Label Elements GHS Hazards Classification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Acute Toxicity, Inhalation (Category 4)

Acute Toxicity, Dermal (Category 4)

Acute Toxicity, Oral (Category 4)

Skin Irritation (Category 2)

Serious Eye Irritation (Category 2A)

Specific Target Organ Toxicity, Single Exposure; Respiratory Tract Irritation (Category 3)

EU Classification (According to EU Regulation 67/548/EEC)

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

EU Risk and Safety Statements (According to EU Regulation 67/548/EEC)

Hazard Statements	Hazard Codes
Harmful	Xn



Risk Codes and Phrases

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

Safety Precaution Codes and Phrases

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S22	Do not breathe dust.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

GHS Hazards Identification (According to EU Regulation 1272/2008 and US OSHA 1910.1200)

Signal Word Warning

GHS Hazard Statements

- H332 Harmful if inhaled.
- H312 Harmful in contact with skin.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

GHS Precautionary Statements

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash hands thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301/P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302/P352	IF ON SKIN: Wash with plenty of soap and water
P304/P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for
P305/P351/P338	breathing.
P332/P313 P337/P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/ attention.
P362	
	If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

2.3 Unclassified Hazards/Hazards Not Otherwise Classified

Lachrymator.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Molecular Formula: C₉H₇NO₂

CAS Registry #: 49647-20-3

Molecular Weight: 161.16

Synonyms

Isocyanic Acid p-Acetylphenyl Ester; 1-(4-Isocyanatophenyl)ethanone; 4'-Isocyanatoacetophenone; NSC 223088; p-Acetylphenyl Isocyanate

EC#:

3.2 Mixtures

Not a mixture.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

General Advice

If medical attention is required, show this safety data sheet to the doctor.

If Inhaled

If inhaled, move person to fresh air. If not breathing, give artificial respiration and consult a physician.

In Case of Skin Contact

Wash affected area with soap and water. Consult a physician if any exposure symptoms are observed.

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In Case of Eye Contact

Immediately rinse eyes with plenty of water for at least 15 minutes. Consult a physician.

If Swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Do NOT induce vomiting unless advised to do so by a physician or Poison Control Center. Seek medical attention.

4.2 Most Important Symptoms and Effects, Both Acute and Delayed

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or section 11.

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed

No data available.

5. FIREFIGHTING MEASURES

5.1 Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special Hazards Arising from the Substance or Mixture

Carbon oxides, Nitrogen oxides

5.3 Advice for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further Information

No data available.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

Storage conditions: No Data Available

7.3 Specific End Uses

For scientific research and development only. Not for use in humans or animals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters

Contains no components with established occupational exposure limits.

8.2 Exposure Controls

Appropriate Engineering Controls

A laboratory fumehood or other appropriate form of local exhaust ventilation should be used to avoid exposure.

Personal Protective Equipment

All recommendations below are advisory in nature and a risk assessment should be performed by the employer/end user prior to use of this product. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

Eye/Face Protection

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Safety goggles or face shield. All equipment should have been tested and approved under appropriate standards, such as NIOSH (US), CSA (Canada), or EN 166 (EU).

Skin Protection

Gloves should be used when handling this material. Gloves are to be inspected prior to use. Contaminated gloves are to be removed using proper glove removal technique so that the outer surface of the glove does not contact bare skin. Dispose of contaminated gloves after use in compliance with good laboratory practices and local requirements.

Gloves used for incidental exposures (splash protection) should be designated as "chemical resistant" by EU standard EN 374 with the resistance codes corresponding to the anticipated use of the material. Unrated gloves are not recommended.

Suggested gloves: AnsellPro Sol-Vex nitrile gloves style 37-175, 15 mil thickness.

Penetration time has not been determined.

Gloves used for prolonged direct exposure (immersion) should be designated "chemical resistant" as per EN 734 with the resistance codes corresponding to the anticipated use of the material.

Suggested gloves: AnsellPro Viton/Butyl gloves style 38-612, 4/8 mil thickness.

Penetration time has not been determined.

These recommendations may not apply if the material is mixed with any other chemical, or dissolved into a solution. A risk assessment must be performed to ensure the gloves will still offer acceptable protection.

Body Protection

Fire resistant (Nomex) lab coat or coveralls.

Respiratory Protection

Recommended respirators are NIOSH-approved N100 or CEN-approved FFP3 particulate respirators. These are to be only used as a backup to local exhaust ventilation or other engineering controls. If the respirator is the only means of protection, a full-face supplied air respirator must be used.

9. PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Information on Basic Physical and Chemical	Properties		
A) Appearance	B) Odour		
No Data Available	No data available		
C) Odour Threshold	D) pH		
No data available	No data available		
E) Melting Point/Freezing Point	F) Initial Boiling Point/Boiling Range		
No Data Available	No data available		
G) Flash point	H) Evaporation Rate		
No data available	No data available		
I) Flammability (Solid/Gas)	J) Upper/Lower Flammability/Explosive Limits		
No data available	No data available		
K) Vapour Pressure	L) Vapour Density		
No data available	No data available		
M) Relative Density	N) Solubility		
No data available	No Data Available		
O) Partition Coefficient: n-octanol/water	P) Auto-Ignition Temperature		
No data available	No data available		
Q) Decomposition Temperature	R) Viscosity		
No data available	No data available		
S) Explosive Properties	T) Oxidizing Properties		
No data available	No data available		
9.2 Other Information			
no data available			
10. STABILITY AND REACTIVITY			
10.1 Reactivity			
No data available.			

10.2 Chemical Stability

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Stable under recommended storage conditions.	
10.3 Possibility of Hazardous Reactions	
No data available.	
10.4 Conditions to Avoid	
No data available.	
10.5 Incompatible Materials	
Strong oxidizing agents, Strong acids.	
10.6 Hazardous Decomposition Products	
In the event of fire: See section 5. Other decompos	ition products: No data available.
11. TOXICOLOGICAL INFORMATION	
11.1 Information on Toxicological Effects	
A) Acute Toxicity	
Oral LD50: No data available.	Inhalation LC50: No data available.
Dermal LD50: No data available.	
B) Skin Corrosion/Irritation	
Moderate skin irritant.	
C) Serious Eye Damage/Irritation	
Moderate eye irritant.	
D) Respiratory or Skin Sensitization	
No data available	
E) Germ Cell Mutagenicity	
No data available	
F) Carcinogenicity	
No data available	
<u>G) Reproductive Toxicity/Teratogenicity</u>	
No data available	
H) Single Target Organ Toxicity - Single Exposure	
Moderate respiratory tract irritation.	
I) Single Target Organ Toxicity - Repeated Exposu	re
No data available	—
J) Aspiration Hazard	
No data available	
K) Potential Health Effects and Routes of Exposure	
Inhalation	
Harmful if inhaled. Causes respiratory tract irritation	n.
Ingestion	
Harmful if swallowed.	
Skin Harmful if absorbed through skin. Causes skin irrite	ation
Harmful if absorbed through skin. Causes skin irrita Eyes	
Causes eye irritation.	
L) Signs and Symptoms of Exposure	
	e described in the labeling (see section 2.2) and/or section 11.
To the best of our knowledge, the chemical, physical, thoroughly investigated.	, and toxicological properties of this material have not been
M) Additional Information	
RTECS: Not available.	
12. ECOLOGICAL INFORMATION	

12.1 Toxicity

No data available.

12.2 Persistance and Degradability

No data available.

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12 3 Bioaccu	mulative Potential			
No data ava				
12.4 Mobility				
No data ava				
12.5 Results	of PBT and vPvB	Assessment		
No data ava	ailable.			
	dverse Effects			
No data ava				
13. DISPOS	SAL CONSIDER	ATIONS		
	reatment Methods			
A) Product may		cinerator equipped with	afterburner and scrubber	Excess and expired materials are to
				deral and Local regulations regarding
the disposa	al and destruction of	this material are follow		5 5 5
	inated Packaging			
Dispose of a	onsiderations			
		f in sanitary sewers, sto	rm sewers, or landfills.	
14. TRANS	PORT INFORM	ATION		
14.1 UN Num				
DOT (US)		IATA: UN3335	IMDG: N/A	ADR/RID: N/A
	per Shipping Name	2		
DOT (US) A Aviatio		n.o.s. (4-Acetylphenyl is	ocvanate)	
IMDG/ARI	. .		obyanato)	
Not dan	gerous goods			
	ort Hazard Class(e			
DOT (US)		IATA: 9	IMDG: N/A	ADR/RID: N/A
14.4 Packing DOT (US)		IATA: III	IMDG: N/A	ADR/RID: N/A
	mental Hazards			
DOT (US)		IATA: None	IMDG: None	ADR/RID: None
14.6 Special	Precautions for U	ser		
None				
15. REGUL	ATORY INFOR	MATION		
			of WHMIS (Canada), OSHA	1910.1200 (US), and EU Regulation
	7/2006 (European U		agialation Spacific for the	a Subatanaa ar Mixtura
A) Canada		Intental Regulations/L	egislation Specific for the	e Substance of Mixture
	L Status: This prod	duct is not listed on the	Canadian DSL/NDSL.	
B) United S				
TSCA Sta	atus: This product is	s not listed on the US E	PA TSCA.	
C) Europea				
		s not registered with the	e EU ECHA.	
No data ava	al Safety Assessm	ent		
16. OTHER 16.1 Revision		<u> </u>		
	blication Date: 3/30	/2016		
•				
16.2 List of A		lose of a substance rea	uired to kill 50% of a test po	opulation.
16.2 List of A LD50		oncentration of a substa	ance required to kill 50% of	
LD50 LC50		lethal dose		
LD50 LC50 LDLo	Lowest known	tavia daga		
LD50 LC50 LDLo TDLo	Lowest known		Cancer	
LD50 LC50 LDLo	Lowest known	gency for Research on (Cancer	

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RTECS Registry of Toxic Effects of Chemical Substances

16.3 Further Information

Copyright 2015. Toronto Research Chemicals Inc. Copies may be made for internal use only. The above information is believed to be correct to the best of our knowledge, but is to be only used as a guide. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Please take all due care when handling this product.