



Revision Date 16-Nov-2010

Revision Number 1

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

Product Identifier Product Description: Cat No.

2,3,4,5,6-Pentafluorophenylacetonitrile 296160000; 296160010; 296160050; 296160250

Relevant identified uses of the substance or mixture and uses advised againstRecommended UseLaboratory chemicalsUses advised againstNo Information available

Details of the supplier of the safety data sheetCompanyAcros Organics BVBAJanssen Pharmaceuticalaan 3a2440 Geel, BelgiumE-mail addressbegel.sdsdess

begel.sdsdesk@thermofisher.com

Emergency Telephone Number

For information in the US, call: 001-800-ACROS-01 For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99 Emergency Number, US: 001-201-796-7100

CHEMTREC Phone Number, US: 001-800-424-9300 CHEMTREC Phone Number, Europe: 001-703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Dusts and Mists	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (single exposure)	Category 3

Classification according to EU Directives 67/548/EEC or 1999/45/EC

 For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

 Symbol(s)
 Xn - Harmful

 R-phrase(s)
 none

 Risk Combination Phrases
 R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

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





Revision Date 16-Nov-2010

SECTION 2. HAZARDS IDENTIFICATION



Signal WordWarningHazard StatementsH302 - Harmful if swallowedH312 - Harmful in contact with skinH319 - Causes serious eye irritationH335 - May cause respiratory irritationH332 - Harmful if inhaledH315 - Causes skin irritation

Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Other Hazards

No information available.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	EC-No.	Weight %	CAS-No	67/548/EEC	CLP	REACH No.
				Classification	Classification -	
					Regulation (EC)	
					No 1272/2008	





Revision Date 16-Nov-2010

(Pentafluorophenyl)acetonitrile 653-30-5	EEC No. 211-498-6	96	653-30-5	Xn; R20/21/22 Xi; R36/37/38	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	_
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For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4. FIRST AID MEASURES

Description of first aid measures Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.
Ingestion	Clean mouth with water. Get medical attention.
Inhalation	Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.
Notes to Physician	Treat symptomatically

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂). Dry chemical. chemical foam.

Extinguishing media which must not be used for safety reasons No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.





Revision Date 16-Nov-2010

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Environmental precautions

Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.. Do not let this chemical enter the environment.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Do not breathe dust. Do not breathe vapors or spray mist. Do not ingest.

Conditions for safe storage, including any incompatibilities

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

Specific End Uses

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Component	European Union	The United Kingdom	France	Belgium	Spain
(Pentafluorophenyl)acet		STEL: 15 mg/m ³ 15 min	VME: 5 mg/m ³ 8		
onitrile		TWA: 5 mg/m ³ 8 hr	heures. CN		
		Skin	Skin		
Component	Italy	Germany	Portugal	The Netherlands	Finland
(Pentafluorophenyl)acet		MAK: 2 mg/m ³ 8			
onitrile		Stunden. inhalable			
		fraction			
		Skin Peak: 2 mg/m ³			
L		Teak. 2 mg/m			
Component	Austria	Denmark	Switzerland	Poland	Norway
(Pentafluorophenyl)acet					TWA: 5 mg/m ³ 8 timer
onitrile					Skin



SAFETY DATA SHEET

Revision Date 16-Nov-2010

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
(Pentafluorophenyl)acet onitrile			Skin		
Biological limit values Derived No Effect Level (D Predicted No Effect Conce (PNEC)	establi NEL) No info	roduct, as supplied, doe shed by the region spec ormation available. ormation available.			th biological limits
Exposure controls					
Engineering Measures	safety	e adequate ventilation, or showers are close to the			yewash stations and
Personal protective equ Eye Protection Hand Protection Skin and body prote Respiratory Protect	Goggle Protection Wear ion Follow 149. U	tive gloves appropriate protective g the OSHA respirator re	gulations found in 29 European Standard El	CFR 1910.134 or E N 149 approved res	
Hygiene Measures Environmental exposure o		e in accordance with go ormation available.	od industrial hygiene a	and safety practice	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Appearance pH Vapor Density Boiling Point/Range Melting Point/Range Flash Point Autoignition Temperature Water Solubility Specific Gravity Molecular Formula Molecular Weight Liquid Clear No information available. 7.14 107 - $111^{\circ}C / 224.6 - 231.8^{\circ}F@ 17 mmHg$ No information available. > $110^{\circ}C / > 230^{\circ}F$ No information available. Insoluble 1.610 C8 H2 F5 N 207.1

SECTION 10. STABILITY AND REACTIVITY

Reactivity

Chemical Stability

Stable under normal conditions



SAFETY DATA SHEET

Revision Date 16-Nov-2010

Possibility of Hazardous Reactions

Hazardous PolymerizationNo information available.Hazardous Reactions .No information available.

Conditions to Avoid

Heat, flames and sparks, Incompatible products.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Gaseous hydrogen fluoride (HF).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity Product Information	No acute toxicity information is available for this product
Component Information	
Chronic Toxicity Carcinogenicity	There are no known carcinogenic chemicals in this product
Sensitization Mutagenic Effects Reproductive Effects Developmental Effects Target Organs Other Adverse Effects Endocrine Disruptor Information	No information available. No information available No information available. No information available. No information available. The toxicological properties have not been fully investigated. None known

SECTION 12. ECOLOGICAL INFORMATION

Toxicity Ecotoxicity effects

Do not empty into drains





Revision Date 16-Nov-2010

SECTION 12. ECOLOGICAL INFORMATION

Persistence and degradability No information available Bioaccumulative potential No information available. Mobility in soil No information available. Results of PBT and vPvB assessment Other adverse effects No information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Empty containers should be taken to local recyclers for disposal

SECTION 14. TRANSPORT INFORMATION

IMDG/IMO

UN-No	3276
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	NITRILES, TOXIC, LIQUID, N.O.S.

ADR

UN-No	3276
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	NITRILES, TOXIC, LIQUID, N.O.S.

IATA

UN-No	3276
Hazard Class	6.1
Packing Group	III
Proper Shipping Name	NITRILES, TOXIC, LIQUID, N.O.S.*





Revision Date 16-Nov-2010

SECTION 15. REGULATORY INFORMATION

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

International Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	CHINA	AICS	KECL
(Pentafluorophenyl)acetonitrile	211-498-6	-		-	-	-	-	-	-	-	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 CHINA - China Inventory of Existing Chemical Substances
 AICS - Inventory of Chemical Substances

KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

SECTION 16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed R36/37/38 - Irritating to eyes, respiratory system and skin

Revision Date Revision Summary 16-Nov-2010

Reason for revisionNot applicableThis safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet