

# SAFETY DATA SHEET

Revision Date 19-Jan-2018

**Revision Number** 3

1. Identification

### Product Name Pentyl isocyanate

Cat No. :

AC314320000; AC314320010; AC314320050

CAS-No Synonyms 3954-13-0 No information available

Recommended Use Uses advised against

e Laboratory chemicals. nst Food, drug, pesticide or biocidal product use

## Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

## Classification

Γ

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Acute oral toxicity	Category 4
Acute dermal toxicity	Category 4
Acute Inhalation Toxicity - Vapors	Category 4
Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Respiratory Sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

## Label Elements

Signal Word Danger

#### Hazard Statements

Flammable liquid and vapor

Harmful if swallowed Harmful in contact with skin Causes skin irritation Causes serious eye damage Harmful if inhaled May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause respiratory irritation



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area In case of inadequate ventilation wear respiratory protection Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician Skin Call a POISON CENTER or doctor/physician if you feel unwell If skin irritation occurs: Get medical advice/attention IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse Eves IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician Indestion IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Component	CAS-No	Weight %	
Pentyl isocyanate	3954-13-0	98	
	4. First-aid measure	es	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Obtain medical attention.		
Inhalation	Remove from exposure, lie down. Move to fresh air. If not breathing, give artificial respiration. Obtain medical attention.		
Ingestion	Clean mouth with water. Get medical atte	ention.	
Most important symptoms and effects	Breathing difficulties. Causes eye burns. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes severe eye damage. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing		
Notes to Physician	Treat symptomatically		
	5. Fire-fighting measu	ures	
Suitable Extinguishing Media	Ŭ	ol closed containers exposed to fire with water	
Unsuitable Extinguishing Media	No information available		
Flash Point	32 °C / 89.6 °F		
Method -	No information available		
Autoignition Temperature Explosion Limits	No information available		
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available No information available No information available		

### Specific Hazards Arising from the Chemical

Flammable. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Vapors may form explosive mixtures with air.

#### Hazardous Combustion Products

Nitrogen oxides (NOx) Carbon monoxide (CO) Carbon dioxide (CO<sub>2</sub>) Hydrogen cyanide (hydrocyanic acid)

## Protective Equipment and Precautions for Firefighters

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

NFPA Health 2	Flammability 2	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions			

Methods for Containment and Clean Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

Up	sawdust). Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Do not let this chemical enter the environment.
	7. Handling and storage
Handling	Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Do not ingest. Use explosion-proof equipment. Use only non-sparking tools. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat and sources of ignition. Flammables area. Keep container tightly closed in a dry and well-ventilated place.
8. [	Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9. Physical and chemical properties

9.	. Physical and chemical properties
Physical State	Liquid
Appearance	Colorless
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	136 - 137 °C / 276.8 - 278.6 °F @ 760 mmHg
Flash Point	32 °C / 89.6 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available
Specific Gravity	0.870
Solubility	No information available
Partition coefficient; n-octanol/wate	
Autoignition Temperature	No information available
Decomposition Temperature	No information available

Viscosity	
Molecular Formula	
Molecular Weight	

No information available C6 H11 N O 113.16

		10. Stab	ility and rea	activity		
Reactive Hazard		None known, base	ed on information a	vailable		
Stability		Moisture sensitive				
Conditions to Avoid	Ł	Keep away from o Incompatible prode			s of ignition. Exces	s heat.
Incompatible Mater	ials	Acids, Strong oxid	izing agents, Stror	g bases, Alcohols	, Amines	
Hazardous Decomp	osition Products	Nitrogen oxides (N (hydrocyanic acid)		oxide (CO), Carbor	n dioxide (CO2), Hy	drogen cyanide
Hazardous Polyme	rization	No information ava	ailable.			
Hazardous Reaction	ns	None under norma	al processing.			
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information Component Informa Toxicologically Syn Products Delayed and immed	ation nergistic	No information ava		d long-term expo	sure_	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient a	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Pentyl isocyanate	3954-13-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects Reproductive Effec	ts	No information ava				
Developmental Effe	ects	No information ava	ailable.			
Teratogenicity		No information ava	ailable.			
STOT - single expo STOT - repeated ex		Respiratory systen None known	n			
Aspiration hazard		No information ava	ailable			
Symptoms / effects delayed	s,both acute and	Symptoms of aller	gic reaction may ir	clude rash, itching	ss, tiredness, nause I, swelling, trouble t st pain, muscle pair	preathing, tingling
Endocrine Disrupto	or Information	No information ava	ailable			
Other Adverse Effe	cte	The toxicological r	properties have not	been fully investig	nated	

	10. Each add information
	12. Ecological information
Ecotoxicity Do not empty into drains.	
Persistence and Degradability	No information available
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	No information available.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information
DOT	
UN-No	UN3080
Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.
Proper technical name	Pentyl isocyanate
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
TDG	
UN-No	UN3080
Proper Shipping Name	ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
ΙΑΤΑ	
UN-No	UN3080
Proper Shipping Name	ISOCYANATE SOLUTION, TOXIC, FLAMMABLE, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	II
IMDG/IMO	
UN-No	UN3080
Proper Shipping Name	ISOCYANATES, TOXIC, FLAMMABLE, N.O.S.
Hazard Class	6.1
Subsidiary Hazard Class	3
Packing Group	<u> </u>
	15. Regulatory information

#### International Inventories

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants

that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

#### U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

#### **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

#### Other International Regulations

Mexico - Grade

No information available

16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Revision Date Print Date Revision Summary	19-Jan-2018 19-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

## **End of SDS**