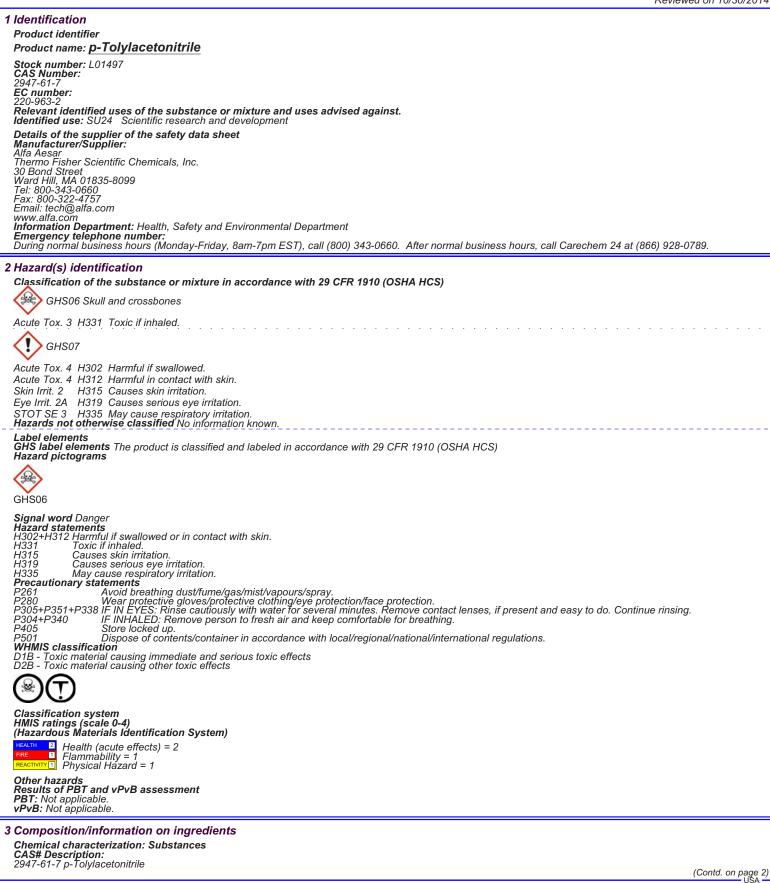


# Safety Data Sheet per OSHA HazCom 2012



Product name: p-Tolylacetonitrile

# Identification number(s): EC number: 220-963-2

4 First-aid measures

## Description of first aid measures

After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.

After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide

Carbon monoxide and carbon dioxide Hydrogen cyanide (HCN) Nitrogen oxides (NOx) **Advice for firefighters Protective equipment:** Wear self-contained respirator. Wear fully protective impervious suit.

### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. **Prevention of secondary hazards:** No special measures required. **Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: 2947-61-7 p-Tolylacetonitrile (100.0%) PEL (USA) Long-term value: 5 mg/m<sup>3</sup> as CN; Skin Additional information: No data Exposure controls Personal protective equipment

Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with organic vapor/acid gas cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. (Contd. on p.

(Contd. on page 3)

(Contd. of page 1)

# Product name: p-Tolylacetonitrile

Eye protection: Safety glasses Body protection: Protective work clothing.

9 Physical and chemical properties			
Information on basic physical and ch	iemical properties		
General Information			
Appearance:	Linuid		
Form: Color:	Liquid Colorless		
Odor:	Coloress Not determined		
Odor threshold:	Not determined		
pH-value:	Not determined.		
	Not determined.		
Change in condition			
Melting point/Melting range:	18 °C (64 °F)		
Boiling point/Boiling range:	242-243 °C (468-469 °F)		
Sublimation temperature / start:	Not determined		
Flash point:	106 °C (223 °F)		
Flammability (solid, gaseous)	Not determined.		
Ignition temperature:	Not determined		
Decomposition temperature:	Not determined		
Auto igniting:	Not determined.		
Danger of explosion:	Not determined.		
Explosion limits:			
Lower:	Not determined		
Upper:	Not determined		
Vapor pressure:	Not determined		
Density at 20 °C (68 °F):	0.989 g/cm³ (8.253 lbs/gal) Not determined.		
Relative density			
Vapor density	Not determined.		
Evaporation rate	Not determined.		
Solubility in / Miscibility with			
Water:	Not miscible or difficult to mix		
Partition coefficient (n-octanol/water)	i: Not determined.		
Viscosity:			
dynamic:	Not determined.		
kinematic:	Not determined.		
Other information	No further relevant information available.		
10 Stability and reactivity			
Reactivity No information known.			
Chemical stability Stable under recom	mended storage conditions		
Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications.			
Possibility of hazardous reactions Reacts with strong oxidizing agents			
Conditions to avoid No further relevan	it information available.		
Incompatible materials: Oxidizing agents			
	Hazardous decomposition products:		
Carbon monoxide and carbon dioxide			

Carbon monoxide and carbon dioxide

Hydrogen cyanide Nitrogen oxides

## 11 Toxicological information

 Toxicological information

 Information on toxicological effects

 Acute toxicity:

 Harmful in contact with skin.

 Harmful if swallowed.

 Toxic if inhaled.

 Danger through skin absorption.

 LD/LC50 values that are relevant for classification: No data

 Skin irritation or corrosion: Causes skin irritation.

 Eye irritation or corrosion: Causes serious eye irritation.

 Sensitization: No sensitizing effects known.

 Germ cell mutagenicity: No effects known.

 Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

 Reproductive toxicity: No effects known.

 Specific target organ system toxicity - repeated exposure: No effects known.

 Specific target organ system toxicity - single exposure: May cause respiratory irritation.

 Aspiration hazard: No effects known.

 Subacute to chronic toxicity: No effects known.

 Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. 12 Ecological information Toxicity Aquatic toxicity: No further relevant information available. Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. Additional ecological information:

Mobility in soil No further relevant information available. Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvP: Not applicable.

vPvB: Not applicable. Other adverse effects No further relevant information available.

(Contd. of page 2)

USA (Contd. on page 4)

(Contd. of page 3)

3 Disposal considerations	
Waste treatment methods	no to another menor disposed
<b>Recommendation</b> Consult state, local or national regulatio <b>Uncleaned packagings:</b>	
<b>Recommendation:</b> Disposal must be made according to of	fricial regulations.
4 Transport information	
UN-Number DOT, IMDG, IATA	UN3276
UN proper shipping name	
DOT IMDG, IATA	Nitriles, liquid, toxic, n.o.s. (p-Tolylacetonitrile) NITRILES, LIQUID, TOXIC, N.O.S. (p-Tolylacetonitrile)
Transport hazard class(es)	
DOT	
Class	6.1 Toxic substances.
Label	6.1
Class Label	6.1 (T1) Toxic substances 6.1
IMDG, IATA	
$\langle * \rangle$	
Class	6.1 Toxic substances.
Label	6.1
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user EMS Number:	Warning: Toxic substances F-A.S-A
Transport in bulk according to Annex II of MARPOL73/7	
Transport/Additional information:	
DOT Marine Pollutant (DOT):	No
UN "Model Regulation":	UN3276, Nitriles, liquid, toxic, n.o.s. (p-Tolylacetonitrile), 6.1, III
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard nictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Safety, health and environmental regulations/legislation GHS label elements The product is classified and labeled in Hazard pictograms	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
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Hazard pictograms GHS06	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms GHS06 Signal word Danger Hazard statements	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled.	n specific for the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)
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Hazard pictograms GHS06 Signal word Danger Hazard statements H302+H312 Harmful if swallowed or in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements	
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H335       May cause respiratory irritation.         Precautionary statements       P261         Avoid breathing dust/fume/gas/mist/vapor         P280       Wear protective clothing	ours/spray. ng/eve protection/face protection.
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H331       Toxic if inhaled.         H315       Causes skin irritation.         H335       May cause respiratory irritation.         Precautionary statements       P261         P280       Wear protective gloves/protective clothir         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF IN HAI FD: Remove person to fresh ai	ours/spray. ng/eye protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H335       May cause respiratory irritation.         Precautionary statements       P261         P280       Wear protective gloves/protective clothir         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.	ours/spray. ng/eye protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing.
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H315       Causes serious eye irritation.         H319       Causes serious eye irritation.         H319       Cause serious eye irritation.         P261       Avoid breathing dust/fume/gas/mist/vapor         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accorda         National regulations       This product is not listed in the U.S. Environmental Protection	ours/spray. ng/eye protection/face protection. Tor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Ir and keep comfortable for breathing. ance with local/regional/national/international regulations.
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H313       Toxic if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H325       May cause respiratory irritation.         P261       Avoid breathing dust/fume/gas/mist/vapor         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accorda         National regulations       This product is not listed in the U.S. Environmental Protective to research and development only. This product must be us	ours/spray. ng/eye protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H315       Causes serious eye irritation.         H319       Causes serious eye irritation.         H325       May cause respiratory irritation.         P261       Avoid breathing dust/fume/gas/mist/vapo         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accordat         National regulations       This product is not listed in the U.S. Environmental Protective         This product is not listed on the Canadian Domestic Substation       Protective should be used for commercial purposes or in for	ours/spray. ng/eye protection/face protection. for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. fon Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes.
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Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H311       Toxic if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H319       Causes serious eye irritation.         H319       Cause respiratory irritation.         P261       Avoid breathing dust/fume/gas/mist/vapo         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accorda         National regulations       This product is not listed in the U.S. Environmental Protective to research and development only. This product must be us product must not be used for commercial purposes or in for         This product is not listed on the Canadian Domestic Substa         SARA Section 313 (specific toxic chemical listings) Sub         California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is not listed.	ours/spray. ng/eye protection/face protection. 'for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. 'on Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. muces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). is not listed.
Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H320+H312 Harmful if swallowed or in contact with skin.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H320       May cause respiratory irritation.         Precautionary statements       P261         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accorded         National regulations       This product is not listed in the U.S. Environmental Protectii         to research and development only. This product must be us       product must not be used for commercial purposes or in for         This product is not listed on the Canadian Domestic Substa       SARA Section 313 (specific toxic chemical listings) Sub         California Proposition 65       Prop 65 - Chemicals known to cause cancer Substance is not         Prop 65 - Development	ours/spray. ng/eye protection/face protection. For several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. inces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Instance is not listed. is not listed.
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Hazard pictograms         GHS06         Signal word Danger         Hazard statements         H302+H312 Harmful if swallowed or in contact with skin.         H311       Toxic if inhaled.         H315       Causes skin irritation.         H319       Causes serious eye irritation.         H319       Causes serious eye irritation.         H319       Cause serious eye irritation.         P261       Avoid breathing dust/fume/gas/mist/vapo         P280       Wear protective gloves/protective clothin         P305+P351+P338 IF IN EYES: Rinse cautiously with water         P304+P340       IF INHALED: Remove person to fresh ai         P405       Store locked up.         P501       Dispose of contents/container in accorda         National regulations       This product is not listed on the Canadian Domestic Substa         SARA Section 313 (specific toxic chemical listings) Sub       California Proposition 65         Prop 65 - Chemicals known to cause cancer Substance is not       Prop 65 - Developmental toxicity, female Substance is not         Prop 65 - Developmental toxicity, female Substance is not       Information about limitation of use: For use only by techn         Other regulations, limitations and prohibitive regulation       Substance of Very High Concern (SVHC) according to the	ours/spray. ng/eye protection/face protection. Tor several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ir and keep comfortable for breathing. ance with local/regional/national/international regulations. ion Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restric: sed by or directly under the supervision of a technically qualified individual as defined by TSCA. This mulations for commercial purposes. inces List (DSL) or the Canadian Non-Domestic Substances List (NDSL). Distance is not listed. is not listed. of listed. listed. is not listed. is mically qualified individuals. 15 the REACH Regulations (EC) No. 1907/2006. Substance is not listed. nd Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the ristation for use) Substance is not listed.

# Product name: p-Tolylacetonitrile

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### (Contd. of page 4)

USA

### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the use Department issuing SDS: Global Marketing Department Date of preparation / last revision 11/23/2015 / -Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Substances LCSO: Lethal concentration, 50 percent LDSO: Lethal concentration, 50 percent LDSO: Lethal dose, 50 percent LDSO: Lethal dose, 50 percent VPW very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MTP: Marinal Toxicology Program (USA)