



	Novio,	100 011 11/13/2014
1	Identification	
	Product identifier Product name: Polytetrafluoroethylene	
	Stock number: 44184	
	CAS Number: 9002-84-0	
	Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development	
	Details of the supplier of the safety data sheet	
	Manufacturer/Supplier: Alfa Aesar	
	Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street	
	Ward Hill, MA 01835-8099 Tel: 800-343-0660	
	Fax: 800-322-4757 Email: tech@alfa.com	
	www.alfa.com Information Department: Health, Safety and Environmental Department	
	Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-	0789.
2	P Hazard(s) identification	
	Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS).	
	Hazards not otherwise classified No information known.	
	Label elements GHS label elements Not applicable	
	Hazard pictograms Not applicable Signal word Not applicable	
	Hazard statements Not applicable WHMIS classification Not controlled	
	Classification system HMIS ratings (scale 0-4)	
	(Hazardous Materials Identification System)	
	FIRE I Flammability = 1	
	REACTIVITY Physical Hazard = 1 Other hazards	
	Results of PBT and vPvB assessment PBT: Not applicable.	
	vPvB: Not applicable.	
3	Composition/information on ingredients	
	Chemical characterization: Substances CAS# Description:	
	9002-84-0 Polytetrafluoroethylene	
4	l 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	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 Hydrogen fluoride (HF)	
	Advice for firefighters	
	Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit	
,	Wear fully protective impervious suit.	
Ċ	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: Pick up mechanically.	
	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.	
		(Contd. on page 2) USA

Product name: Polytetrafluoroethylene

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.				
Information about protection against explosions and fires: No information known.				
Conditions for safe storage, including	any incompatibilities			
Storage				
Requirements to be met by storeroom	ns and receptacles: No special requirements.			
Further information about storage in one con	mon storage facility: Store away from oxidizing agents.			
Keep container tightly sealed.	ruriner information about storage conditions: Keep container tightly sealed.			
Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.				
Specific end use(s) No further relevant information available.				
8 Evenesuse controls/personal protection				
8 Exposure controls/personal prote				
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 req	uire monitoring at the workplace: In quantities of materials with critical values that have to be monitored at the workplace			
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data				
Exposure controls				
Personal protective equipment				
General protective and hygienic meas	sures			
The usual precautionary measures for ha	andling chemicals should be followed.			
Keep away from foodstuffs, beverages a Remove all soiled and contaminated clo	na reea. Hina immediately			
Wash hands before breaks and at the er	nd of work.			
Maintain an ergonomically appropriate w	vorking environment.			
Breathing equipment: Use suitable res Recommended filter device for short	pirator when high concentrations are present.			
Use a respirator with type N95 (USA) or	PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-			
purifying respirators are appropriate. Or	by use equipment tested and approved under appropriate government standards.			
Protection of hands:				
Impervious gloves Check protective gloves prior to each us	a far 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.			
Material of gloves Nitrile rubber. NBR				
Penetration time of glove material (in	minutes) 480			
Glove thickness 0.11 mm				
Eye protection: Safety glasses Body protection: Protective work clothing.				
9 Physical and chemical properties				
Information on basic physical and che				
Information on basic physical and che General Information				
Information on basic physical and che General Information	emical properties			
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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 relevant information available. **Incompatible materials:** Oxidizing agents

(Contd. of page 1)

(Contd. on page 3)

Product name: Polytetrafluoroethylene		
Hazardous decomposition products: Carbon monoxide and carbon dioxide Hydrogen fluoride		(Contd. of page 2)
 11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: IARC-3: Not classifiable as to carcinogenicity to humans. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorige Reproductive toxicity: No effects known. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: 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 are Contains toxicity are<!--</td--><th></th><td></td>		
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: General notes: Do not allow undiluted product or large quantities to reach ground water, water co Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	urse or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper dis Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.	sposal.	
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name DOT, ADN, IMDG, IATA	Not applicable	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not applicable	
Packing group	Not applicable	
DOT, IMĎG, IATA	Not applicable	
	Not applicable.	
	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N Transport/Additional information:		
DOT		
Marine Pollutant (DOT):	Vo	
UN "Model Regulation": -		
15 Regulatory information Safety, health and environmental regulations/legislation specific for the subs GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection Age All components of this product are listed on the Canadian Domestic Substances L SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, neale Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Information about limitation of use: For use only by technically qualified individe Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulation The conditions of restrictions according to Article 67 and Annex XVII of the I market and use must be observed.	ency Toxic Substances Control Act Chemical substance Inventory. ist (DSL). uals.	placing on the
Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Subst		
		(Contd. on page 4)
		USA

Product name: Polytetrafluoroethylene

(Contd. of page 3)

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 11/24/2015 / - Abbreviations and accorpms: 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 Transportation IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent CAGIH: American Abstratian Meental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) MTP: National Toxicology Program (USA) MARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)

USA