Material Safety Data Sheet





Henkel Issue date: 04/15/2009

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1. PRODUCT AND COMPANY IDENTIFICATION					
	_octite® Dupont® Kyrtox® RFE PFPE _ubricant	IDH number:	237158		
=	Lubricant	Item number: Region:	31361 United States		
Company address: Henkel Corporation 1001 Trout Brook Crossin Rocky Hill, Connecticut 0		Contact informat Telephone: 860.5	71.5100 none: 860.571.5100		
	2. HAZARDS	IDENTIFICAT	ION		
	EMERGENCY				
Physical state: Solid, waxy, grease HMIS: 1 Color: White FLAMMABILITY: 0 Odor: Odorless PHYSICAL HAZARD: 1 Personal Protection: See MSDS Section 8 CAUTION: MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.					
Relevant routes of expo	Skin, Inhalation, Eyes	Skin, Inhalation, Eyes			
Potential Health Effects					
Inhalation:	290°C, (554°F) may cau attention. Inhalation of f fever, a temporary flu-lik These symptoms gener	Inhalation of Fluorine containing compounds released as decomposition products above 290°C, (554°F) may cause lung irritation and pulmonary edema which require medical attention. Inhalation of fumes or smoke from overheating or burning may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes coughing. These symptoms generally last approximately 24 hours. Repeated episodes of polymer fume			
Skin contac	t: May cause skin irritation	fever may cause lung damage. May cause skin irritation with discomfort or rash. Prolonged skin contact may cause redness and inflamation of the hair follicles without skin sensitization.			
Eye contact Ingestion:	t: Contact with eyes will ca	Contact with eyes will cause irritation. Blurred vision. Excess tearing. Not expected under normal conditions of use.			
Existing conditions age exposure:	gravated by None known	e known			
	This material is conside 1910.1200).	red hazardous by th	e OSHA Hazard Communication Standard (29 CFR		

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], .alpha (pentafluoroethyl)omega [tetrafluoro(trifluoromethyl)ethoxy]-	60164-51-4	60 - 100
Ethene, tetrafluoro-, homopolymer	9002-84-0	10 - 30

4. FIRST AID MEASURES

Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact:	Remove contaminated clothing and footwear. Immediately flush skin with plenty of water (using soap, if available). If skin irritation persists, call a physician. Wash clothing before reuse.		
Eye contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.		
Ingestion:	Do not induce vomiting. Immediately give large quantities of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.		
Notes to physician:	If ingested, irrigate the stomach using activated charcoal in addition.Note: to prepare activated charcoal slurry, mix thoroughly 50 g of activated charcoal in 400 ml (about 2 cups) water.Administer 5mg/kg, or 350 ml for an average adult.		
5. FIRE FIGHTING MEASURES			

Flash point:	Does not ignite.
Autoignition temperature:	Not available
Flammable/Explosive limits - lower:	Not available
Flammable/Explosive limits - upper:	Not available
Extinguishing media:	Will not burn. Use media appropriate for surrounding material.
Special firefighting procedures:	Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.
Unusual fire or explosion hazards:	Not available
Hazardous combustion products:	Toxic fluorine compounds.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not flush with water. Do not allow product to enter sewer or waterways.

Remove all sources of ignition.

Clean-up methods:

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco products in areas where they may become contaminated with this material.

Storage:

Keep container closed. Keep away from heat and flames to avoid decomposition products.

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER	
Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethanediyl]], .alpha(pentafluoroethyl)omega [tetrafluoro(trifluoromethyl)ethoxy]-	None	None	None	None	
Ethene, tetrafluoro-, homopolymer	None	None	None	10 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	
Engineering controls:	Local exhaust ventilation is recommended when general ventilation is not sufficient to control airborne contamination below occupational exposure limits.				
Respiratory protection:	Where the potential exists for exposure to decomposition products due to heating or elevated temperatures, wear NIOSH approved respiratory protection as appropriate.				
Eye/face protection:	Safety goggles	Safety goggles or safety glasses with side shields.			
Skin protection:	Chemical resis	Chemical resistant, impermeable gloves.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:**

Solid, waxy, grease White Odorless Not available Neutral 0.0000001 mm hg (20 °C (68°F)) Not available 320 °C (608°F) 1.89 - 1.93 Not available Does not ignite. Not available Not available Not available Not available Negligible Not available Essentially Zero (Exempt Compounds)

10. STABILITY AND REACTIVITY

Stability:	Stable
Hazardous reactions:	Will not occur.
Hazardous decomposition products:	Heating above 260-290°C (500-554°F) may form potentially toxic fluorine compounds.
Incompatible materials:	Not available
Conditions to avoid:	Avoid heating above temperatures of 260-290°C (500-554°F). Depolymerization may occur in the presence of some metal oxides above 288°C (550°F). Decomposition occurs at increasing rates as temperature is raised above 355°C (670°F).

11. TOXICOLOGICAL INFORMATION

Product toxicity data:

A single inhalation exposure to PTFE caused irritation of the lungs. A repeated ingestion exposure caused no significant toxicological effects. Long term ingestion exposure altered white blood cell counts.

				OSHA Carcinogen	
Hazardous components	NTP Car	rcinogen	IARC Carcinogen	(Specifically Regulated)	
Poly[oxy[trifluoro(trifluoromethyl)-1,2- ethanediyl]], .alpha(pentafluoroethyl)- .omega	No		No	No	
[tetrafluoro(trifluoromethyl)ethoxy]- Ethene, tetrafluoro-, homopolymer	Ν	10	No	No	
			-		
Hazardous components			Health Effects/Targe	et Organs	
Poly[oxy[trifluoro(trifluoromethyl)-1,2-ethane (pentafluoroethyl)omega (tetrafluoro(trifluoromethyl)ethoxy]-	No Records				
Ethene, tetrafluoro-, homopolymer			No Target Orga	ans	
	12. ECOL		NFORMATION		
Ecological information:		Not available			
	13. DISPO	SAL CON	SIDERATIONS		
			nused product only.		
Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations. Do not allow product to enter sewer or waterways.					
Hazardous waste number:		Not a RCRA h	azardous waste.		
	14. TRAN	ISPORT IN	IFORMATION		
U.S. Department of Transportation	Ground (49 CF	R)			
Proper shipping name:	Not r	regulated			
Hazard class or division: Identification number:	None				
Packing group:		None			
International Air Transportation (IC)	ΔΟ/ΙΔΤΔ)				
Proper shipping name:		regulated			
Hazard class or division:	None	-			
Identification number:		None			
Packing group:	None	9			
Water Transportation (IMO/IMDG)					
Proper shipping name:		regulated			
Hazard class or division:	None	-			
Identification number: None Packing group: None					
	15. REGU		NFORMATION		
Inited States Regulatory Information					
TSCA 8 (b) Inventory Status: All compo Inventory		ents are listed o	r are exempt from listing on the	Toxic Substances Control Act	
		reporting de m	inimus		
CERCLA/SARA Section 302 EHS: CERCLA/SARA Section 311/312: CERCLA/SARA 313:	reporting de m lealth reporting de m				

No California Proposition 65 listed chemicals are known to be present.

California Proposition 65:

Canada Regulatory Information

CEPA DSL/NDSL Status:

WHMIS hazard class:

All components are listed on or are exempt from listing on the Canadian Domestic Substances List. D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

Prepared by: Lou Fabrizio, Regulatory Affairs Specialist

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