Material Safety Data Sheet





Revision Number: 002.1

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1. PRODUCT AND COMPANY IDENTIFICATION					
Product name:	Prism(R) 4541 Medical Device Surface Insensitive Instant Adhesive Gel	IDH number:	92335		
Product type:	Cyanoacrylate	Item number:	18691		
		Region:	United States		
Company address:		Contact information:			
Henkel Corporation		Telephone: 860.571.51			
One Henkel Way Rocky Hill, Connecticu	it 06067	Emergency telephone: 860.571.5100 Internet: www.henkelna.com			
	2. HAZARDS	IDENTIFICATION	N		
	EMERGENCY				
	EMERGENCI	HMIS:			
Physical state:	Gel	HEALTH:	2		
Color:	Clear	FLAMMABILIT	'Y: 2		
Odor:	Sharp, irritating	PHYSICAL HA			
		Personal Prote	ection: See MSDS Section 8		
WARNING					
	BONDS SKIN IN SECONDS.				
	MAY CAUSE EYE, SKI	N AND RESPIRATO	ORY TRACT IRRITATION.		
Relevant routes of ex	Relevant routes of exposure: Skin, Inhalation, Eyes				
Potential Health Effect	cts				
Inhalatio			sure limit results in respiratory irritation, which		
Skin con		may lead to difficulty in breathing and tightness in the chest. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the			
	skin. Cured adhesive do	bes not present a health	hazard even if bonded to the skin. Bonds skin		
	in seconds. May cause	skin irritation. Cyanoaci	rylates have been reported to cause allergic		
_			kin surface, an allergic response is rare.		
Eye conta		rritating to eyes. Causes excessive tearing. Eyelids may bond. Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It			
Ingestion	is almost impossible to a		y polymerizes (solidifies) and bonds in mouth.		
Existing conditions aggravated by Eye, skin, and respir exposure:		ry disorders.			
	This material is conside 1910.1200).	red hazardous by the OS	SHA Hazard Communication Standard (29 CFF		

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	CAS NUMBER	%
Ethyl 2-cyanoacrylate	7085-85-0	60 - 100
Treated fumed silica	67762-90-7	5 - 10
Thickener	Proprietary	5 - 10

4. FIRST AID MEASURES

Inhalation:

Move to fresh air. If symptoms persist, seek medical advice.

Skin contact:	Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin is burned due to the rapid generation of heat by a large drop, seek medical attention. If lips are bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force eye open. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage.
Ingestion:	Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass.
Notes to physician:	Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated

5. FIRE FIGHTING MEASURES

symptomatically after adhesive is removed.

Flash point:	80 - 93.4 °C (176°F - 200.12 °F) none	
Autoignition temperature:	485 °C (905°F)	
Flammable/Explosive limits - lower:	Not determined	
Flammable/Explosive limits - upper:	Not determined	
Extinguishing media:	Water spray or fog. Dry powder. Foam. Carbon dioxide.	
Special firefighting procedures:	Wear a self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.	
Unusual fire or explosion hazards:	None	
Hazardous combustion products:	Trace amounts of toxic and/or irritating fumes may be released and the use of breathing apparatus is recommended.	

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 allow product to enter sewer or waterways. Ventilate area.Clean-up methods:Do not use cloths for mopping up. Flood with water to complete polymerization
and scrape off the floor. Cured material can be disposed of as non-hazardous
waste.

7. HANDLING AND STORAGE

Handling:

Avoid contact with fabric or paper goods. Contact with these materials may cause rapid polymerization which can generate smoke and strong irritating vapors, and cause thermal burns. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.

Storage:

Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.

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
Ethyl 2-cyanoacrylate	0.2 ppm TWA	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
Thickener	None	None	None	None
Engineering controls:		own-draft exhaust vent		
Respiratory protection:	Use NIOSH approved respirator if there is potential to exceed exposure limit(s).			
Eye/face protection:	Safety goggles or safety glasses with side shields.			
Skin protection:	Use nitrile gloves and aprons as necessary to prevent contact. Do not use PVC, nylon or cotton.			
9. PHYSI	CAL AND CHEM	ICAL PROPERT	TES	
Physical state:	Gel			
Color:	Clear			
Odor:	Sharp, irritating	a		
Odor threshold:	Not available	-		
pH:	Not applicable			
Vapor pressure:	< 0.2 mm hg			
Boiling point/range:	> 300 °F (> 14	8.9 °C) none		
Melting point/ range:	Not determined	ż		
Specific gravity:	1.05			
Vapor density:	3 Approximate	ly		
Flash point:	80 - 93.4 °C (1	76°F - 200.12 °F) none	9	
Flammable/Explosive limits - lower:	Not determined	ć		
Flammable/Explosive limits - upper:	Not determined			
Autoignition temperature:	485 °C (905°F))		
Evaporation rate:	Not available			
Solubility in water:	Polymerises in	presence of water.		
Partition coefficient (n-octanol/water):	Not applicable			

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Hazardous reactions:	Rapid exothermic polymerization will occur in the presence of water, amines, alkalis and alcohols.
Hazardous decomposition products:	None
Incompatible materials:	Water, amines, alkalis and alcohols.
Conditions to avoid:	Spontaneous polymerization.

VOC content:

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< 2 %; < 20 g/l (California SCAQMD Method 316B) (Estimated)

11. TOXICOLOGICAL INFORMATION

Acute oral product toxicity:	LD50 (rat) > 5,	,000 mg/kg			
Acute dermal product toxicity:	LD50 (rabbit) >	> 2,000 mg/kg			
Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)		
Ethyl 2-cyanoacrylate	No	No	No		
Treated fumed silica	No	No	No		
Thickener	No	No	No		
Hazardous components Health Effects/Target Organs			et Organs		
Ethyl 2-cyanoacrylate		Irritant, Allergen, Re	spiratory		
Treated fumed silica		Irritant	· · ·		
Thickener		Irritant			
	12. ECOLOGICAL IN	IFORMATION			
	N				
Ecological information:	Not known.				
	13. DISPOSAL CONS	SIDERATIONS			
In	formation provided is for un	used product only.			
Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.					
Hazardous waste number:	Not a RCRA ha	azardous waste.			
	14. TRANSPORT INFORMATION				
U.S. Department of Transportation G	iround (49 CFR)				
Proper shipping name:		n.o.s. (Cyanoacrylate ester)			
	Hazard class or division: Combustible Liquid				
	Identification number: NA 1993				
Packing group:					
Exceptions:	Unrestricted, (Not m	ore than 450 Liters)			
International Air Transportation (ICA	Ο/ΙΑΤΑ)				
Proper shipping name: Aviation regulated liquid, n.o.s. (Cyanoacrylate ester)			er)		
Hazard class or division: 9					
Identification number:	UN 3334				
Packing group: None Exceptions: Primary packs containing less than 500ml are unregulated by this mode of		and the differentiation of the second second			
Exceptions:		e shipped unrestricted.	guiated by this mode of		
Water Transportation (IMO/IMDG)					
Proper shipping name:	Not regulated				
Hazard class or division:	None				
Identification number:	None				
Packing group:	None				
15. REGULATORY INFORMATION					
United States Regulatory Information					
TSCA 8 (b) Inventory Status:	All components are listed or	are exempt from listing on the	Toxic Substances Control Act		
	Inventory.	, ,			
TSCA 12(b) Export Notification:	None above reporting de mi	inimus			

 CERCLA/SARA Section 302 EHS:
 None above reporting de minimus

 CERCLA/SARA Section 311/312:
 Immediate Health, Delayed Health, Reactive, Fire

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CERCLA/SARA 313:	None above reporting de minimus	
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.	
Canada Regulatory Information		
CEPA DSL/NDSL Status: WHMIS hazard class:	Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details. B.3, 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.

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