

# **Material Safety Data Sheet**

### Innovation and Experience at Work

## **TriboGel 410D**

Material Uses	
Manufacturer  3851 Exchange Ave. Aurora, IL 60504 630-449-5000  Product Code TriboGel 410D  Validation Date January 30, 2015 In case of emergency contact 1-630-449-5000  2. Hazards Identification  Emergency Overview Physical State Semi-solid, grease Color Amber Odor Mild petroleum odor  Hazard Statements  NOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFIWHEN THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.  While this material is not considered hazardous by the OHazard Communication Standard (29 CFR 1910.1200), this M contains valuable information critical to the safe handling proper use of the product. This MSDS should be retained available for employees and other users of the product.	
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Potential acute health effects	
Inhalation No known significant effects or critical hazards.	
Ingestion No known significant effects or critical hazards.	
Skin No known significant effects or critical hazards.	
Eyes No known significant effects or critical hazards.	
Potential chronic health effects	
Chronic effects No known significant effects or critical hazards.	
CarcinogenicityNo known significant effects or critical hazards.	
Mutagenicity No known significant effects or critical hazards.	
Teratogenicity No known significant effects or critical hazards.	
Fertility effects No known significant effects or critical hazards.	
Developmental effects No known significant effects or critical hazards.	
Over-exposure signs/symptoms	
Inhalation No specific data	
Ingestion No specific data	
Skin No specific data	

	Eyes	No	specific data			
	Medical conditions aggravated by over-	_	ne known			
	exposure	140	IIC KIIOWII			
	- CAPOCATO					
3.	Composition/Component Data					
0.						
	Name		CAS Number	EINECS Number	%	
	¥1.					
	No Haz	ordou	s or Reportable Ingred	lionto		
	INOTIAZA	aruous	s of Reportable Higher	ilet its		
4.	First Aid Massures					
4.	First Aid Measures	Ch	ack for and ramava s	any contact langua Imm	adiataly fluab ayea	
	Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the				
	Lyc Johnson		upper and lower eyelids. Get medical attention if symptoms occur.			
		In case of contact, immediately flush skin with plenty of water for a least 15 minutes while removing contaminated clothing and shoes			enty of water for at	
	Skin Contact				lothing and shoes.	
	Okin Contact	Wash clothing before reuse. Get medical attention if symptoms				
		OCCUT.			ing if broathing is	
			Move exposed person to fresh air. If not breathing, if breathing irregular or if respiratory arrest occurs, provide artificial respirator			
	Inhalation	or oxygen by trained personnel. Loosen tight clothing such as a				
		collar, tie, belt, or waistband. Get medical attention if symptoms				
			occur.			
	Ingestion		Wash out mouth with water. Do not induce vomiting unless directed to do so my medical personnel. Never give anything by mouth to an			
	Ingestion	unconscious person. Get medical attention if symptoms occur.  No action shall be taken involving any personal risk or without suitable training.  No specific treatment. Treat symptomatically. Contact poison			ntoms occur	
					nal risk or without	
	Protection for first-aiders					
	Note to Physician	treatment specialist immediately if large quantities have bee			ntities have been	
		ingested or inhaled.				
	Firefighting Measures					
5.	Firefighting Measures Suitable Extinguishing Media					
	Suitable Extiliguisilling Media	Promptly isolate the scene by removing all persons from the vicinit			ns from the vicinity	
	Special Exposure Hazards	of the incident if there is a fire. No action shall be taken involvin				
		any personal risk or without suitable training.				
	Hazardous thermal decomposition	Burning may produce carbon monoxide, carbon dioxide				
	products			small amounts of other		
	Special protective equipment for			r protective equipment CBA) with a full face-		
	firefighters		sitive pressure mode.	CDA) WILL a TUIL TACE-	piece operated in	
		1	procede mode.			
6.	Accidental Release Measures					
	- I - I - I - I - I - I - I - I - I - I	No	action shall be take	en involving any persor	nal risk or without	
		sui	table training. Evacua	ate surrounding areas.	Keep unnecessary	
	Personal Precautions			nel from entering. Do		
				. Put on appropriate p	ersonal protection	
		equ	equipment (see Section 8).			

	Environmental Precau	utions	waterways, drains,	and sewers. Inform the	off and contact with soil, relevant authorities if the on (sewers, waterways,	
	Methods for Clean up		Small spill: Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.  Large spill: Move containers from spill area. Prevent entry into sewers, water courses, basements, or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: See section 1 for emergency contact information and section 13 for waste disposal.			
7.	7. Handling and Storage					
	Handling		Eating, drinking, and this material is had wash hands and	Put on appropriate personal protection equipment (see section 8). Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before		
	Storage		Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.			
8.	Exposure Limits a	and Personal Prote	⊥ ective Equipment			
			United States			
	Occu Ingredient		upational Exposure I	Limits Exposure Lir	nits	
				•		
	Canada					
	Ingredient	Occ List Name	upational Exposure I TWA (8 Hours)	_imits STEL (15 mins)	Ceiling	
	iligiedient	List Name	TWA (o flours)	STEE (13 IIIII3)	Centrig	
			Mexico			
			cupational Exposure Limits			
		Ingredient		Exposure Lir	nits	
			l l			
	Recommended Monitoring Procedures  If this product contains ingredients with exposure limits, pe workplace, atmosphere, or biological monitoring may be required determine the effectiveness of the ventilation or other measures and/or the necessity to use respiratory procedures			oring may be required to tilation or other control		
	Engineering Measures		equipment.  No specific ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborned contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.			

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	Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking or using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
	Personal Protection		
Respiratory		Use properly fitted, air-purifying or air fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.	
	Hands	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.	
	Eyes	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposures to liquid splashes, mists, or dusts.	
	Skin	Personal protection equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
	Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements or environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.	
_	Dhysical and Chamical Dyanastica		
9.	Physical and Chemical Properties	1	
	Physical State	Semi-solid, grease	
	Flash Point	Not Available	
	Auto-ignition Temperature	Not Available	
	Flammable Limits	Not Available	
	Color	Amber	
	Odor	Mild petroleum odor	
	pH	Not Available	
	Boiling/condensation Point	Not Available	
	Melting/freezing Point	Not Available	
	Density Vapor Pressure	0.874 g/cm <sup>3</sup> Not Available	
	•	Not Available  Not Available	
	Vapor Density Volatility	Not Available  Not Available	
	Evaporation Data	Not Available  Not Available	
	Viscosity	Not Available  Not Available	
	Dispensability Properties	Not Available  Not Available	
	Solubility	Insoluble in the following materials: hot and cold water	
	Physical/chemical Properties Comments	Not Available	
	1 11 STOCK OF CHINCAL LEGISCHES COMMENTS	TOTATION	
10.	Stability and reactivity		
	Chemical Stability	The product is stable	
	Conditions to avoid	No specific data	
	Incompatible Materials	No specific data	
	•	Under normal conditions of storage and use, hazardous	
	Hazardous Decomposition Products	decomposition product should not be produced.  Under normal conditions of storage and use, hazardous reactions	
	Possibility of Hazardous Reactions	will not occur.	
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11.	Toxicological Data					
	Acute Toxicity: None known United States					
	Product/Ingredient Name	Result	Species	Dose	Exposure	
	_					
		Canada				
	Product/Ingredient Name	Result	Species	Dose	Exposure	
		Mexico				
	Product/Ingredient Name	Result Species Dose Exp				
		T =				
	Chronic Toxicity	Repeated or prolonged exposure to spray or mist may respiratory tract irritation.			mist may produce	
			lo known significant e	ffects or critical haza	ards.	
		Fves: N	No known significant e	ffects or critical haza	ards	
	Irritation/Corrosion		-			
			atory: Repeated or pr		o spray or mist may	
		produce respiratory tract irritation. <b>Skin:</b> No specific information is available regarding the				
	Sensitizer	sensitiz humans	ring properties of this	product. Sensitization	on not expected for	
	Sensitizer	numans	S.			
		Respiratory: Sensitization not expected for humans.  There is no data on the preparation itself. Carcinogenic suspected for humans.  There is no data on the preparation itself. Mutagenici suspected for humans.  There is no data on the preparation itself. Teratogenici suspected for humans.  There is no data on the preparation itself. Not considered dangerous to humans.				
	Carcinogenicity				Sarcinogenicity not	
	Mutagenicity				Mutagenicity not	
					Teratogenicity not	
	Teratogenicity					
	Reproductive Toxicity				t considered to be	
12.	cotoxicity Not readily biodegradable					
	United States					
	Aquatic Ecotoxicity	There is no data available on the preparation itself  This product has not been tested for biodegradation. Not				
	Persistence/Degradability	biodegradable. This product is not expected to bioacculum				
		through food chains in the environment.				
		Canada				
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability	This product has not been tested for biodegradation. Not biodegradable. This product is not expected to bioaccu				
	<u> </u>		n food chains in the en			
		M	exico			
	Aquatic Ecotoxicity		s no data available on			
	Persistence/Degradability		oduct has not been radable. This produc			
	i craiatemos/Degradability		n food chains in the en		to bioacculumate	

13.	Disposal Considerations				
	Waste Disposal	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions, and any by-products should at all times comply with the requirement of environmental protection and waste disposal legislation and any regional or local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and it's container must be disposed of in a safe way. Empty containers or liners may contain some product residues. Avoid dispersal of spilled material and run-off and contact with soil, waterways, drains, and sewers.			
	Disposal should be in accordance with applicable regional, national, and local laws and regulations Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE LIMITS AND PERSONAL				
	PROTECTIVE EQUIPMENT for additional handling information and protection of employees.				
14.	Transportation Information				

#### Regulatory UN **Proper Shipping Name** Classes Packing Label Additional Information Number Group Information **DOT Classification** Not Regulated **TDG Classification** Not Regulated **Mexico Classification** Not Regulated ADR/RID Class Not Regulated IMDG Class Not Regulated **IATA-DGR Class** Not Regulated

15.	Regulatory Information	
		United States
	HSC Classification	Not Regulated
	TSCA 8(a) IUR Exempt/Partial Exemption	Not Determined
	United States Inventory (TSCA 8b)	All components are listed or exempt
	Clean Air Act Section 112(b) – Hazardous Air Pollutants (HAP'S)	Not listed

#### SARA 313: No listed substances

	Product Name	CAS Number	Concentration %
Form R Reporting			
Requirements			
Supplier Notification			
	L		l .

		Canada				
	WHMIS (Canada)	Not controlled under WHMIS				
	Canadian NPRI	None of the components are	listed			
	CEPA Toxic Substances	None of the components are				
	Canada Inventory	All components are listed or e	exempted			
		Mexico				
	Classification	Health: 1 Flammability: 1 Reactivity: 0				
16.	Other Information					
	Labeling Requirements	NOT EXPECTED TO PRODU HEALTH EFFECTS WHEN T INSTRUCTIONS FOR USE A	OMMENDED			
	Hazardous Material Information System (USA)	HEALTH FLAMMABILITY REACTIVITY PERSONAL PROTECTION	TEAMMABILITY  REACTIVITY  PERSONAL  on a 0-4 scale, with representing minin hazards or risks, at representing signif			
	The customer is responsible for determining the PPE code for this material.					
	Date of Issue	January 30, 2015				
	Version	2	<i>y</i> ,			
	Changes from Previous Version	Yes				
	Prepared by:	ECL Research and Development Department				

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