

Material Safety Data Sheet This MSDS is prepared in accordance with OSHA 29 CFR 1910.1200

		CLASS E: Corrosive liquid.		HCS CLASS: Toxic. HCS CLASS: Corrosive liquid.		
WHMIS (Pictogram	ıs)	WHMIS (Classification)				HCS
Section 1. Chem	ical Pr	oduct and Company Identification				
Product Name/ Trade name	Spee	edex	Cod	e		173
Synonym	Ready	-To-Use Cleaner/Degreaser	CAS	S #		Not applicable.
Chemical Family	Not av	ailable.	Vali	dation Da	ite	3/22/2004
Chemical Formula	Not ap	plicable.	Prin	t Date		3/27/2004
Manufacturer/ Supplier	1001 E Toledo	Corporation Brown Avenue 9, Ohio 43607 241-2156	In Ca Emei	<u>ise of</u> : <u>gency</u>	Chei	ntrec (800) 424-9300
TSCA	TSCA I	nventory: All components listed or are exempt from listing.				
DSL/ NDSL	All com	ponents listed unless noted elsewhere on this MSDS			Pro	tective Clothing

Section 2. Composition and Information on Ingredients				
Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
 2-Butoxyethanol Sodium Metasilicate Sodium Silicate Isopropyl Alcohol 	111-76-2 6834-92-0 1344-09-8 67-63-0	1-5 1-5 0-5 0-5	TWA: 20 (ppm) from ACGIH (TLV) [United States] TWA: 50 (ppm) from OSHA (PEL) [United States] Not available. Not available. TWA: 400 (ppm)	ORAL (LD50): Acute: 1746 mg/kg [Rat]. Not available. Not available. ORAL (LD50): Acute:
			TWA: 400 (ppm) from OSHA (PEL) [United States] STEL: 500 (ppm)	16971 mg/kg [Rat].

Section 3. Hazards Identification		
	Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath.	
	Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce nervous system damage.	
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.	

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.	
Ingestion	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Have conscious person drink several glasses of water or milk.	

Section 5. Fire Fighting Measures		
Products of Combustion	Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.	
Special Remarks on Fire Hazards	N/A	
Special Remarks on Explosion Hazards	N/A	

Section 6. Accidental Release Measures

Small Spill and Leak	Absorb with an inert material.
	Corrosive liquid. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Call for assistance on disposal.
	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Section 7. Handling and Storage

Precautions	Keep locked up. Keep container dry. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.
Incompatibility	Strong oxidizers.
Storage	Corrosive materials should be stored in a separate safety storage cabinet or room. Keep out of the reach of children. Not for use or storage in or around the home.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Good general ventilation should be sufficient to control airborne levels.
Personal Protection	
Eyes	Splash goggles.
Body	Long Pants and Long Sleeves to avoid skin contact.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves (impervious).
Protective Clothing (Pictograms)	

Exposure Limits

2-Butoxyethanol

TWA: 25 (ppm) TWA: 50 (ppm) from OSHA (PEL)

Isopropyl Alcohol TWA: 400 (ppm) TWA: 400 (ppm) from OSHA (PEL) STEL: 500 (ppm)

Consult local authorities for acceptable exposure limits.

Section 9. Physical a	nd Chemical Properties		
Physical State and Appearance	Liquid.	Odor	Pleasant.
Molecular Weight	Not applicable.	Taste	Not available.
рН	12 to 12.8 [Basic.]	Color	Green.
Boiling/Condensation Point	212°F initial		
Melting/Freezing Point	Not available.		
Critical Temperature	Not available.		
Instability Temperature	Not available.		
Specific Gravity	1.02 (Water = 1)		
Vapor Pressure	20mm Hg @ 68°F		
Vapor Density	>1 (Air = 1)		
Volatility	90%		
VOC			
Evaporation Rate	<1 compared to Water		
Dispersion Properties	See solubility in water.		
Solubility	Easily soluble in cold water.		
The Product is:	May be combustible at high temperature.		
Auto-ignition Temperature	Not available.		
Flash Points	Not available.		
Flammable Limits	Not available.		
Fire Hazards in Presence of Various Substances	No specific information is available in our or presence of various materials.	latabase	e regarding the flammability of this product in
Explosion Hazards in Presence of Various Substances	Not applicable		

Section 10. Stability and Reactivity Data	
Stability	The product is stable.
Incompatibility with Various Substances	Strong oxidizers.
Hazardous Decomposition Products	not available

Section 11. Toxicological Information		
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.	
Toxicity to Animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 1746 mg/kg [Rat]. (2-Butoxyethanol).	
	Acute toxicity of the gas (LC50): 926 ppm 4 hour(s) [Mouse]. (2-Butoxyethanol).	
Acute Effects on Humans		
Eyes	Corrosive to eyes.	
Skin	Corrosive to skin on contact. Skin contact may produce burns.	
Inhalation	Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Over-exposure by inhalation may cause respiratory irritation.	
Ingestion	May be fatal if swallowed. May cause burns to mouth, throat, and stomach.	
Chronic Effects on Humans	Over-exposure by inhalation may cause respiratory irritation. Repeated or prolonged exposure to the substance can produce blood disorders. Repeated or prolonged exposure to the substance can produce kidney damage. Repeated or prolonged exposure to the substance can produce liver damage. Repeated or prolonged exposure to the substance can produce nervous system damage.	
Special Remarks on Toxicity to Animals	No additional remark.	
Special Remarks on Chronic Effects on Humans	No additional remark.	

Section 12. Ecological Information			
Ecotoxicity	Not available.		
BOD5 and COD	Not available.		
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.		
Toxicity of the Products of Biodegradation	Not available.		
Special Remarks on the Products of Biodegradation	No additional remark.		

Section 13. Disposal Considerations		
Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Waste Stream	Not available.	

Section 14. Transport Information				
DOT (U.S.A) (Pictograms)	CORROSIVE 8			
TDG Classification	Class 8: Corrosive material			
PIN UN, Proper Shipping Name, PG	Shipping name: CORROSIVE LIQUIDS, N.O.S. UNNA: UN17	60 PG: II		
Maritime Transportation	Not available.			
Special Provisions for Transport	Not available.			

Section 15. Other Regulatory Information and Pictograms				
WHMIS (Classification)	CLASS E: Corrosive liquid.			
Regulatory Lists	No products were found.			
Other Regulations	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).			
Other Classifications	HCS (U.S.A.)	HCS CLASS: Toxic. HCS CLASS: Corrosive liquid.		
	USA Regulatory Lists	gulatory California prop. 65: This product contains the following ingredients for which the State of California has found to cause reproductive harm (female) which would require a warning under the statute: Ethylene Oxide < 1 ppm California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer which would require a warning under the statute: Ethylene Oxide < 1 ppm		
		Massachusetts RTK: Ethylene Oxide		
		SARA 311/312 MSDS distribution - chemical inventory - hazard identification: 2-Butoxyethanol: immediate health hazard, delayed health hazard SARA 313 toxic chemical notification and release reporting: 2-Butoxyethanol		
	DSD (EEC)	R35- Causes severe burns.		
	International Regulations Lists	No products were found.		
Hazardous Material Information System (U.S.A.)	Health Flammability Physical Hazard	* 3 National Fire Protection Association (U.S.A.) Vide only a guick reference for hazard information. The ENTIRE Specific Hazard		
The Hazard Ranking systems presented on this MSDS provide only a quick reference for hazard information. The ENTIRE Specific Hazard MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.				

Section 16. Other Information

Validated by CRushton on 3/22/2004.

Verified by CRushton.

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Information Contact Betco Corporation 1001 Brown Avenue Toledo, Ohio 43607

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on 3/22/2004.

Speedex

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