

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER		→ <b>DÜRR SYSTEM-HYGIENE FD 322 Surface Disinfection</b>		PRODUCT IDENTIFICATION NUMBER (PIN) FD 322	
PRODUCT USE					
→ Aldehyde-free, ready-diluted solution for rapid spray and wipe disinfection and cleaning of small surfaces and small objects.					
MANUFACTURER'S NAME			SUPPLIER'S NAME		
orochemie GmbH + Co KG			SciCan / Division of Lux & Zwingenberger Ltd.		
STREET ADDRESS			STREET ADDRESS		
Max-Planck-Str. 27			1440 Don Mills Road		
CITY		PROVINCE		CITY	
D - 70806 Kornwestheim				Toronto	
POSTAL CODE		EMERGENCY TELEPHONE NO.		POSTAL CODE	
D - 70806		0049 7154 13080		Canada M3B 3P9	
				EMERGENCY TELEPHONE NO.	
				(416) 445 - 1600	

## SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LD <sub>50</sub> OF INGREDIENT (SPECIFY SPECIES)
1-Propanol	30 - 50	71-23-8	8000 mg/kg (rat, oral)	
Ethanol	20 - 30	64-17-5	7060 mg/kg (rat, oral)	
N-Benzyl-N,N-di-hydroxyethyl-N-coco alkyl-ammonium chloride	< 0.1	61789-68-2	1225 mg/kg (rat, oral)	

## SECTION 3 - PHYSICAL DATA

PHYSICAL STATE	ODOUR AND APPEARANCE			ODOUR THRESHOLD (ppm)
liquid	colourless liquid with aromatic, alcohol-like odour			no data available
VAPOUR PRESSURE (mm Hg)	VAPOUR DENSITY (AIR = 1)	EVAPORATION RATE	BOILING POINT (° C)	FREEZING POINT (° C)
no data available	no data available	no data available	> 70 °C	no data available
pH	SPECIFIC GRAVITY	COEFF. WATER/OIL DIST.		
6.5 ± 0.5	0.89 ± 0.02 g/cm <sup>3</sup>	no data available		

## SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY			
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		IF YES, UNDER WHICH CONDITIONS ?	
		→ When the product is heated up to the flash point.	
MEANS OF EXTINCTION			
Water jet, powder or foam. In the event of nearby fire, remove product or keep containers cool with water jet.			
FLASHPOINT (° C) AND METHOD	UPPER FLAMMABLE LIMIT (% BY VOLUME)	LOWER FLAMMABLE LIMIT (% BY VOLUME)	
25 °C	not known	not known	
AUTOIGNITION TEMPERATURE (° C)	HAZARDOUS COMBUSTION PRODUCTS		
not known	not known		
EXPLOSION DATA	SENSITIVITY TO IMPACT	SENSITIVITY TO STATIC DISCHARGE	
→	not applicable	not applicable	

## SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY	
YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF YES, UNDER WHICH CONDITIONS ?
	→ normal storage and handling
INCOMPATIBILITY WITH OTHER SUBSTANCES	
YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF SO, WHICH ONES ?
	→ none
REACTIVITY, AND UNDER WHAT CONDITIONS	
none	
HAZARDOUS DECOMPOSITION PRODUCTS	
No known hazardous decomposition products.	

PRODUCT IDENTIFIER → **DÜRR SYSTEM-HYGIENE FD 322 Surface Disinfection**

**SECTION 6 - TOXICOLOGICAL PROPERTIES**

ROUTE OF ENTRY

SKIN CONTACT  SKIN ABSORPTION  EYE CONTACT  INHALATION  INGESTION

EFFECTS OF ACUTE EXPOSURE TO PRODUCT  
LD50 (rat, oral) is > 6 ml/kg of body weight.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT  
not known

EXPOSURE LIMITS not known	IRRITANCY OF PRODUCT Irritation of respiratory tract is possible. Irritating to eyes.	SENSITIZATION TO PRODUCT not applicable	CARCINOGENICITY not applicable
TERATOGENICITY not applicable	REPRODUCTIVE TOXICITY not applicable	MUTAGENICITY not applicable	SYNERGISTIC PRODUCTS not applicable

**SECTION 7 - PREVENTIVE MEASURES**

PERSONAL PROTECTIVE EQUIPMENT

GLOVES (SPECIFY) protective gloves	RESPIRATOR (SPECIFY) if ventilation is inadequate	EYE (SPECIFY) protective goggles
FOOTWEAR (SPECIFY) -	CLOTHING (SPECIFY) -	OTHER (SPECIFY) Keep away from food and drink.

ENGINEERING CONTROLS (SPECIFY, EG. VENTILATION, ENCLOSED PROCESS)  
Open and handle container with care. Keep away from sources of ignition. -No smoking.

LEAK AND SPILL PROCEDUR  
Remove with fluid-absorbing material (e.g. universal absorbent). The cleaned-up material must be correctly disposed of. Residues should be flushed off with care.

WASTE DISPOSAL  
Disinfectant: dispose of in conformity with the valid waste disposal regulations. Empty packages completely. After appropriate cleaning they can be recycled. Rinse with water for recycling.

HANDLING PROCEDURES AND EQUIPMENT  
Please observe instructions for use (see bottle back label). Keep stock bottle tightly shut and reseal carefully after use.

STORAGE REQUIREMENTS  
Store only in the original container. Store in a cool place. Do not store in temperatures below 5 °C.  
Do not store together with oxidizing, self-igniting substances and highly flammable solid substances.

SPECIAL SHIPPING INFORMATION  
IMDG: Class: 3, UN No.: 1987, Packaging group: III, (25 °C c. C.), F-E,S-D  
Proper shipping name: ALCOHOLS, N.O.S. (n-propanol and ethanol)

**SECTION 8 - FIRST AID MEASURES**

SPECIFIC MEASURES

General instructions: Remove contaminated clothing.  
Inhalation: Take care for fresh air.  
Skin contact: After contact with skin, wash immediately with plenty of water.  
Eye contact: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Ingestion: Rinse the mouth and then drink plenty of water. Seek medical advice.

**SECTION 9 - PREPARATION DATE OF MSDS**

PREPARED BY (GROUP, DEPARTMENT, ETC.) Customer Service	PHONE NUMBER 416 446-2705	DATE June 15, 2009
-----------------------------------------------------------	------------------------------	-----------------------