

## MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT <b>Alkalinity 100 ppm Standard</b>		CHEMICAL FAMILY <b>dilute organic solution</b>			
	PRODUCT NUMBER <b>Orion 172141</b>		FORMULA			
	MANUFACTURER'S NAME AND ADDRESS <b>Thermo Fisher</b>		PRODUCT USE			
	166 Cummings Center		EMERGENCY TELEPHONE NO. <b>1-800-424-9300</b>			
	Beverly, MA 01915					
	CONTAINER SIZE AND TYPE		USE AS RECEIVED	YES		
HAZARDOUS INGREDIENTS	SHIPPING NAME		CLASS			
	PIN	WHMIS Classification <b>NC—Not Controlled</b>	PACKING GROUP			
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD <sub>50</sub> mg/kg	LC <sub>50</sub> **	CAS REGISTRY NO.
	1	< 0.01	Triton X-100			9002-93-1
	1	<0.01	Sodium Hydroxide			1310-73-2
	1	> 99.9	Deionized Water			7732-18-5
		WHMIS CLASSIFICATION:				
		The hazardous ingredients concentration of this product is far less than 0.1 %. The product is sufficiently diluted so as not to pose a health hazard and is therefore not controlled by WHMIS.				
		"Inherently not poisonous, flammable, etc." or <b>NC</b>				
		* (1) % W/W (2) % V/V (3) % g/L ** SPECIES AND ROUTE				
PHYSICAL DATA	FREEZING POINT	0 °C	MELTING POINT	N. Avail. °C	BOILING POINT	100 °C
	VAPOUR PRESSURE	N. Avail.	VAPOUR DENSITY (AIR = 1)	N. Avail.	SPECIFIC GRAVITY (H <sub>2</sub> O = 1)	1
	COEFFICIENT OF WATER/OIL DISTRIBUTION	Not Appl.	EVAPORATION RATE	Not Avail.	pH AT 25 °C	6-9
	ODOUR THRESHOLD	Not Avail.	PHYSICAL STATE	GAS LIQUID PASTE SOLID POWDER	X	
	ODOUR AND APPEARANCE		Clear colourless solution, odourless.			
FIRE & EXPLOSION DATA	FLASH POINT AND METHOD OF DETERMINATION		FLAMMABLE LIMITS		L.E.L.	U.E.L.
	Not combustible.				N. A.	N. A.
	CONDITIONS OF FLAMMABILITY					
	MEANS OF EXTINCTION		any			
	HAZARDOUS COMBUSTION PRODUCTS					
			AUTO IGNITION TEMP.		°C	
EXPLOSION DATA		SENSITIVITY TO MECHANICAL IMPACT		none		
		SENSITIVITY TO STATIC DISCHARGE		none		
SPECIAL FIRE FIGHTING PROCEDURES						

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REACTIVITY	STABLE	YES	CONDITIONS TO AVOID		PRODUCT NUMBER	
	UNSTABLE				Orion 172141	
	INCOMPATIBILITY—MATERIALS TO AVOID					
	HAZARDOUS DECOMPOSITION PRODUCTS					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION	INGESTION	EYE CONTACT	SKIN CONTACT	SKIN ABSORPTION
		NO	NO	YES	NO	
	EFFECTS OF EXPOSURE (ACUTE)					
	Dilute solution is not considered to be a hazard.					
	EFFECTS OF EXPOSURE (CHRONIC)					
	EXPOSURE LIMITS					
	SENSITIZATION TO PRODUCT					
	CARCINOGENICITY					
	OTHER TOXICOLOGICAL EFFECTS					
	EMERGENCY AND FIRST AID PROCEDURES					
Eyes: irrigate with water while lifting eyelids.						
Skin: wash with water and soap.						
Ingestion: drink large amounts of water or milk.						
PREVENTIVE MEASURES	RESPIRATORY PROTECTION					
	VENTILATION	LOCAL EXHAUST		SPECIAL		
		Not Applicable		Not Applicable		
	HAND PROTECTION	MECHANICAL (GENERAL)		OTHER		
		Not Applicable		Not Applicable		
	EYE PROTECTION			splash-proof safety goggles		
	PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL					
	Wash down drain with excess water.					
WASTE DISPOSAL METHOD						
as above						
HANDLING PROCEDURES AND EQUIPMENT						
Emergency eyewash should be available.						
STORAGE REQUIREMENTS						
Keep container sealed to protect product quality.						
SPECIAL SHIPPING INFORMATION						
PREPARATION	PREPARED BY		APPROVED BY			
	Peter Bakker		Peter Bakker			
	TITLE		TITLE		TELEPHONE	
		Chemistry Manager		(519) 941-8161		
		<i>Peter Bakker</i>		DATE		
				November 5, 2009		
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