

MATERIAL SAFETY DATA SHEET

IDENTIFICATION & USE	TYPE OF PRODUCT Alkalinity 50 ppm Standard		CHEMICAL FAMILY dilute organic solution			
	PRODUCT NUMBER Orion 172140		FORMULA			
	MANUFACTURER'S NAME AND ADDRESS Thermo Fisher		PRODUCT USE			
	166 Cummings Center		EMERGENCY TELEPHONE NO. 1-800-424-9300			
	Beverly, MA 01915					
	CONTAINER SIZE AND TYPE		USE AS RECEIVED	YES		
HAZARDOUS INGREDIENTS	SHIPPING NAME		CLASS			
	PIN	WHMIS Classification NC—Not Controlled	PACKING GROUP			
	CONCENTRATION*	HAZARDOUS INGREDIENTS	CHEMICAL NAMES	LD ₅₀ mg/kg	LC ₅₀ **	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 NC					
	* (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 ₂ 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 Not combustible.		FLAMMABLE LIMITS		L.E.L. N. A.	U.E.L. 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 Orion 172140	
	UNSTABLE					
	INCOMPATIBILITY—MATERIALS TO AVOID					
	HAZARDOUS DECOMPOSITION PRODUCTS					
CONDITIONS OF REACTIVITY						
HEALTH HAZARD DATA	HAZARDOUS ROUTES OF ENTRY	INHALATION NO	INGESTION NO	EYE CONTACT YES	SKIN CONTACT NO	SKIN ABSORPTION
	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.					
	RESPIRATORY PROTECTION					
	PREVENTIVE MEASURES	VENTILATION	LOCAL EXHAUST Not Applicable		SPECIAL Not Applicable	
MECHANICAL (GENERAL) Not Applicable			OTHER Not Applicable			
HAND PROTECTION		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.						
PREPARATION	PREPARED BY Peter Bakker		APPROVED BY Peter Bakker			
	TITLE		TITLE		TELEPHONE	
			Peter Bakker		(519) 941-8161	
					DATE November 5, 2009	
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