



## **MATERIAL SAFETY DATA SHEET**



PRODUCT NAME: FLOW   USE: Liquid Synthetic Concentrated Cleaner   SUPPLIER:: JohnsonDiversey Canada, Inc.   2401 bhatol Cricle 1-800-668-7171   Oakville Orbaniz, LOH (PT), Canada TRADE NAME / SYNONYMS: not applicable   WHMS CLASSIFICATION: D28 TRADE NAME / SYNONYMS: not applicable   CHEMICAL FAMILY: sufactant CHEMICAL FAMILY: not applicable   II - HAZARDOUS INGREDIENT % w/w CAS # LDS0 / LCS0 Route / Specific   Na hazardous ingredients III - HANDLING AND DISPOSAL PROCEDURES Route / Specific   PERSONAL PROTECTIVE EQUIPMENT: With absorbent clay for disposal. Route / Specific   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBLITY (Material to Avoid): atom goidizers   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBLITY (Material to Avoid): atom a doced ontainer. Avoid freezing.   IV - PHYSICAL PROPERTIES Applicable   APPEARANCE / ODOUR: Clear, yellow viscous liquid   S.G. / BULK DENSTY(gloc): <td< th=""><th colspan="6">I - PRODUCT IDENTIFICATION AND USE MSDS ID: 4513</th></td<>	I - PRODUCT IDENTIFICATION AND USE MSDS ID: 4513					
SUPPLIER: JohnsonDiversey Canada, Inc. 201 Binato Circle 1-800-668-7171   OdWile Ontano, LeH PPI, Canada TRADE NAME / SYNONYMS: not applicable   CHEMICAL FAMLY: Surfactant III - HAZARDOUS INGREDIENTS   HAZARDOUS INGREDIENT % w/w CAS # LD50 / LC50 Route / Specific   No hazardous ingredients III - HANDLING AND DISPOSAL PROCEDURES Route / Specific III - HANDLING AND DISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT: % w/w CAS # LD50 / LC50 Route / Specific   Specific Int required Eye: safety glasses Footwear: not required Respiratory: If required If required   Specific Int REQUIREMENTS: general ventilation III - HANDLING AUD contract. VENTILATION REQUIREMENTS: If required   Specific Int REQUIREMENTS: general ventilation If required If required If required   INCOMPATIBILITY (Material to Avoid): istrong oxidizers If required If required If required   StorAGE / SHIPPING REQUIREMENTS: Store in a code dy area in a closed contanter. Avoid treezing. If required If required   ODURE PROSEDURES: Contain the spill. Mop up or soak up with absorbent cloy for disposal. Wash spill area with l	PRODUCT NAME: FLOW					
JohnsonDiversey Canada, Inc. 2401 Bristol Circle   2401 Bristol Circle Caskwille Omario, LBH 6P1, Canada   WHMIS CLASSIFICATION: D28   CHEMICAL FAMILY: surfactant   II - HAZARDOUS INGREDIENTS In tappicable   HAZARDOUS INGREDIENT % w/w CAS # LD50 / LC50 Route / Specific   No hazardous ingredients in the ADDLISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT: % w/w CAS # LD50 / LC50 Route / Specific   No hazardous ingredients in the AUDLING AND DISPOSAL PROCEDURES Personal PROTECTIVE EQUIPMENT: Worker: not required   mask generated, use NIOSH approved Other: not required Interquired   mask generativeniliation Workits contractive or soak up whataborbent clay for disposal. Wash spill area with large volumes of water.   VENTLITION REQUIREMENTS: generativeniliation Interquired Interquired   MASTE DISPOSAL: Disposal: Storage according to municipal, provincial, and federal regulations. Storage / ShipPiNG REQUIREMENT: Stora in a cool dry area in a closed container. Avoid freezing.   V - PHYSICAL PROPERTIES APPEANNE / ODOUR: Closer, yellow viscous liquid Sd. / Bulk DeNSITY (air-1): not available Dooutor Threezin	USE: Liquid Synthetic Concentrated Cleaner					
CHEMICAL FAMILY: surfactant CHEMICAL NAME: not applicable   III - HAZARDOUS INGREDIENTS   HAZARDOUS INGREDIENT   MAZARDOUS INGREDIENT % w/w CAS # LD50 / LC50 Route / Specif.   No hazardous ingredients   III - HANDLING AND DISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT:   Gloves: not required   Respiratory:   If inists are generated, use NIOSH approved Other: not required   mask   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES:   Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a closed container. Avoid freezing.   V PHYSICAL PROPERTIES   APPEARANCE / DODUR: Clear, yellow viscous liquid   S.	JohnsonDiversey Canada, Inc. 2401 Bristol Circle					
HAZARDOUS INGREDIENT % w/w CAS # LD50 / LC50 Route / Specin   No hazardous ingredients III - HANDLING AND DISPOSAL PROCEDURES Respiratory III - HANDLING AND DISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT: Gloves: not required Eye: safety glasses Footwear: not required   Respiratory: If mists are generated, use NIOSH approved Other: not required SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations. Strong oxidizers   STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing. IV - PHYSICAL PROPERTIES   APPEARANCE / ODOUR: Clear, yellow viscous liquid S.G. / BULK DENSITY (girce): 1.010 pH: (concentrate): 9.5   VAPOUR PRESSURE (mmHg): 17.5 @ 20°C VAPOUR DENSITY (air=1): not available DOUDUR THRESHOLD: not available   BOLING POINT: 0°C PERCENT VOLATILE: 88%   SOLUBILITY IN	CHEMICAL FAMILY: surfactant		CHEMICAL NAME: not applicable			
No hazardous ingredients III - HANDLING AND DISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT: Gives: not required Eye: safety glasses Footwear: not required   Respiratory: If mitst are generated, use NIOSH approved Other: not required Secondary   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact. Ventilation   INCOMPATIBILITY (Material to Avoid): strong exidizers   SPIL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing.   IV - PHYSICAL PROPERTIES IV - PHYSICAL PROPERTIES   APPEARANCE / ODOUR: Clear, yellow viscous liquid   S.G. / BULK DENSITY(girc): 10.10 pH: (concentrate): 9.5   VAPOUR PRESSURE (mmHg): 17.5 @ 20°C VAPOUR DENSITY (air=1): not available   DODOR THRESHOLD: not available BOILING POINT: approx. 100°C   FREEZING POINT: 0°C PERCENT VOLATILE: 88%   SoluBility in Water: 100% EVAPORATION RATE (water=1): approx. 1   V - TOXICOLOGICAL PROPERTIES SPINC	II - HAZARDOUS INGREDIENTS					
III - HANDLING AND DISPOSAL PROCEDURES   PERSONAL PROTECTIVE EQUIPMENT:   Gloves: not required Eye: safety glasses Footwear: not required   Respiratory: If mists are generated, use NIOSH approved Other: not required   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing.   IV - PHYSICAL PROPERTIES   APPEARANCE / ODOUR: Clear, yellow viscous liquid   S.G. / BULK DENSITY(g/cc): 1.010 pH: (concentrate): 9.5   VAPOUR PRESSURE (mmHg): 17.5 @ 20°C VAPOUR DENSITY (air=1): not available   DOUR THRESHOLD: not available BolLING POINT: approx. 1   V - TOXICOLOGICAL PROPERTIES   EFFECTS OF ACUTE EXPOSURE TO MATERIAL: EVAPORATION RATE (water=1): approx. 1	HAZARDOUS INGREDIENT	% w/w	I	CAS #	LD50 / LC50	Route / Species
PERSONAL PROTECTIVE EQUIPMENT:   Gloves: not required Eye: safety glasses Footwear: not required   Respiratory: if mists are generated, use NIOSH approved Other: not required   mask SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing.   IV - PHYSICAL PROPERTIES APPEARANCE / ODOUR:   Clear, yellow viscous liquid S.G. / BULK DENSITY(gloc): 1.010   S.G. / BULK DENSITY(gloc): 1.010   PH: (concentrate): 9.5   VAPOUR PRESSURE (mmHg): 17.5 @ 20°C VAPOUR DENSITY (air=1): not available   DOUR THRESHOLD: not available BOILING POINT: approx. 100°C   FREEZING POINT: 0°C PERCENT VOLATILE: 88%   SOLUBILITY IN WATER: 100% EVAPORATION RATE (water=1): approx. 1   V-TOXICOLOGICAL PROPERTIES SKIN: Repeated or prolonged contact may result in irritatio						
Gloves: not required Eye: safety glasses Footwear: not required   Respiratory:: If mists are generated, use NIOSH approved Other: not required   mask SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a color dy area in a closed container. Avoid freezing.   APPEARANCE / ODOUR: Clear, yellow viscous liquid   S.G. / BULK DENSITY(gloc): 1.010 pH: (concentrate): 9.5   VAPOUR PRESSURE (mmHg): 17.5 @ 20°C VAPOUR DENSITY (air=1): not available   ODOUR THRESHOLD: not available BolLING POINT: approx. 100°C   FREZING POINT: 0°C PERCENT VOLATILE: 88%   SOLUBILITY IN WATER: 100% EVAPORATION RATE (water=1): approx. 1   V-TOXICOLOGICAL PROPERTIES SKIN: Repeated or prolonged contact may result in irritation.   INGESTION: May cause irritation of the digestive tract. Int	III - HANDLING AND DISPOSAL PROCEDURES					
ODOUR THRESHOLD: not available BOILING POINT: approx. 100°C   FREEZING POINT: 0°C PERCENT VOLATILE: 88%   SOLUBILITY IN WATER: 100% EVAPORATION RATE (water=1): approx. 1   V - TOXICOLOGICAL PROPERTIES   EFFECTS OF ACUTE EXPOSURE TO MATERIAL:   EYES: May cause irritation. No serious or irreversible effects expected if treated promptly.   SKIN: Repeated or prolonged contact may result in irritation.   INGESTION: May cause irritation of the digestive tract.   INHALATION: No serious or irreversible effects expected.   LD50 (calculated): >50000 mg/kg	Respiratory: If mists are generated, use NIOSH approved mask Other: not required   SPECIAL HANDLING PROCEDURES AND EQUIPMENT: Avoid eye contact.   VENTILATION REQUIREMENTS: general ventilation   INCOMPATIBILITY (Material to Avoid): strong oxidizers   SPILL PROCEDURES: Contain the spill. Mop up or soak up with absorbent clay for disposal. Wash spill area with large volumes of water.   WASTE DISPOSAL: Dispose according to municipal, provincial, and federal regulations.   STORAGE / SHIPPING REQUIREMENT: Store in a cool dry area in a closed container. Avoid freezing.   IV - PHYSICAL PROPERTIES   APPEARANCE / ODOUR: Clear, yellow viscous liquid					
FREEZING POINT: 0°C PERCENT VOLATILE: 88%   SOLUBILITY IN WATER: 100% EVAPORATION RATE (water=1): approx. 1   V - TOXICOLOGICAL PROPERTIES   EFFECTS OF ACUTE EXPOSURE TO MATERIAL:   EYES: May cause irritation. No serious or irreversible effects expected if treated promptly.   SKIN: Repeated or prolonged contact may result in irritation.   INGESTION: May cause irritation of the digestive tract.   INHALATION: No serious or irreversible effects expected.   LD50 (calculated): >50000 mg/kg						
SOLUBILITY IN WATER: 100% EVAPORATION RATE (water=1): approx. 1   V - TOXICOLOGICAL PROPERTIES   EFFECTS OF ACUTE EXPOSURE TO MATERIAL:   EYES: May cause irritation. No serious or irreversible effects expected if treated promptly.   SKIN: Repeated or prolonged contact may result in irritation.   INGESTION: May cause irritation of the digestive tract.   INHALATION: No serious or irreversible effects expected.   LD50 (calculated): >50000 mg/kg						
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LD50 (calculated): >50000 mg/kg LC50 (calculated): not available	EFFECTS OF ACUTE EXPOSURE TO MATERIAL:   EYES: May cause irritation. No serious or irreversible effects expected if treated promptly.   SKIN: Repeated or prolonged contact may result in irritation.   INGESTION: May cause irritation of the digestive tract.					
			LC50	(calculated): no	t available	

EFFECTS OF CHRONIC none known EXPOSURE TO MATERIAL:						
VI - FIRST AID MEASURES						
EYES: Flush eyes with plenty of water for at least 15 minutes. Hold eyelids open while rinsing. Contact a physician.						
SKIN: Flush affected area thoroughly with water. If irritation persists, contact a physician.						
<b>INGESTION:</b> Drink large volumes of water . Never give anything by mouth to an unconscious patient. Do not induce vomiting. Contact a physician.						
INHALATION: Remove patient to fresh air.						
VII - FIRE AND EXPLOSION DATA						
FLAMMABLE: No						
FLASH POINT, °C: not applicable	AUTO IGNITION TEMPERATURE,°C: N/Ap					
EXTINGUISHING MEDIA: Water [x] Dry Chemical [x] Carbon Dioxide [x] Foam [x] Other []						
SPECIAL FIRE FIGHTING PROCEDURES: not required						
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon, nitrogen.						
EXPLOSIVE SENSITIVITY TO: not applicable						
VIII - REACTIVITY DATA						
STABILITY: Stable [x] Unstable []						
CONDITIONS TO AVOID: keep from freezing						
INCOMPATIBILITY (Material to Avoid) : strong oxidizers						
HAZARDOUS DECOMPOSITION PRODUCTS: carbon monoxide wi	th incomplete combustion					
REACTIVITY: not dangerously reactive						
IX - MSDS PREPARATION						
SOURCES USED: RTECS, MSDS, ACGIH	PREPARED BY: JohnsonDiversev Canada, Inc. Regulatory Department					
PREPARATION DATE: April 15, 2003	Industrial Division Phone (905) 829-1200					
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