



ASPIN  
21 INDUSTRY STREET, UNIT #6  
AURORA ON., L4G1X6  
CANADA  
(905)392-6655

**PRODUCT: ASPIN D-10**

**CODE: D10**

### SECTION 01: IDENTIFICATION

Supplier identifier..... Aspin  
21 Industry Street, Unit #6  
Aurora ON.  
L4G1X6  
(905)392-6655  
Product identifier..... ASPIN D-10  
Product code..... D10  
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).  
Product use..... Automatic dishwash detergent .

### SECTION 02: HAZARD IDENTIFICATION



According to Hazardous Products  
Regulations (HPR) (SOR/2015-17)

Hazard classification.....  
Signal word.....  
Hazard statement.....  
Precautionary statements.....

Skin Corrosion — Category 1. Serious Eye Damage — Category 1.  
DANGER.

H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.  
P260 Do not breathe dust or mist. P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards.....  
Supplemental Information.....

None.  
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

### SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Potassium hydroxide	1310-58-3	7-13
Sodium hypochlorite	7681-52-9	0.1-1
<The exact concentration of composition has been withheld as a trade secret>		

### SECTION 04: FIRST-AID MEASURES

Routes of exposure

Inhalation..... If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

Ingestion..... Call immediately a poison centre or a doctor. Do not induce vomiting or give anything by mouth to an unconscious person. Rinse out mouth with water. .

Skin contact..... Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and laundry before reuse. Get medical aid.

Eye contact..... Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Medical attention and special treatment.... IF exposed or concerned: Get medical advice/attention. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

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**SECTION 05: FIRE-FIGHTING MEASURES**

Extinguishing media.....	Use an extinguishing agent suitable for the surrounding fire. Do not use water jet as an extinguisher, as this will spread the fire.
Hazardous combustion products.....	Chlorine, Hydrogen chloride gas.
Special protective equipment and precautions .....	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Move containers from fire area if this can be done without risk. Cool closed containers exposed to fire with water spray.
Sensitivity to static discharge.....	Product is not sensitive to static discharge.
Sensitivity to mechanical impact.....	Product is not sensitive to mechanical impact.
Further information.....	Contact with some reactive metals may produce flammable hydrogen gas.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures	Wear protective equipment: goggles, chemically resistant clothing and gloves, and appropriate respirator if in a confined area. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up.
Environmental precautions.....	Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply. Ventilate the area. Prevent further leakage or spillage if safe to do so.
Methods and materials for containment and cleaning up	Absorb in vermiculite, dry sand or earth and place into container. Contaminated absorbent material may pose the same hazards as the spilled product. Dispose of absorbed material in accordance with regulations.

**SECTION 07: HANDLING AND STORAGE**

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or on clothing. Avoid inhalation of mists/vapours/fumes. Wash thoroughly after handling. Keep container tightly closed.
Storage needs.....	Keep in a dry, cool and well-ventilated place.
Materials to avoid.....	Do not mix with other chemicals or cleaners. Keep away from strong acids.

**SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
Potassium hydroxide	ceiling: 2 mg/m <sup>3</sup>	not available	not available	not available	not available	not available
Sodium hypochlorite	no data available	Ceiling: 2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	no data available	no data available	no data available
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used. Eye wash bottle with pure water.					
Individual protection measures						
Eye/type.....	Safety glasses with side-shields.					
Gloves/type.....	Wear chemical resistant protective gloves.					
Respiratory/type.....	Under normal use conditions, with adequate ventilation, no special handling equipment is required. If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.					
Clothing/type.....	Wear clean long legged, long sleeved work clothes.					
Hygiene measures.....	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.					

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance.....	liquid.
Color.....	yellow to greenish.
Odour.....	mild.
Odour threshold.....	not available.
pH.....	14.
Melting point (°C).....	not applicable.
Freezing point (°C).....	0.
Initial boiling point (°C).....	100.
Flash point (°C), Method.....	>100°C, closed cup.
Evaporation rate.....	not available.
Upper flammability limit (% vol).....	not available.
Lower flammability limit (% vol).....	not available.
Vapour pressure (mm Hg).....	17.5.
Vapour density (air=1).....	not available.
Relative density/Specific Gravity.....	1.12.
Water solubility.....	soluble.

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

Solubility in other solvents..... not available.  
 Partition coefficient — n-octanol/water..... not available.  
 Auto ignition temperature (°C)..... > 200 °C.  
 Thermal decomposition temperature..... not available.  
 Viscosity..... thin liquid.

**SECTION 10: STABILITY AND REACTIVITY**

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.  
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.  
 Possibility of hazardous reactions..... No hazardous reactions when stored and handled according to instructions. The product is chemically stable. Contact with some reactive metals may produce flammable hydrogen gas.  
 Conditions to avoid..... Do not mix with anything but water.  
 Incompatible materials..... Acids, strong oxidizing agents.  
 Hazardous decomposition products..... chlorine dioxide.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
Potassium hydroxide	not available	273 mg/kg (oral-rat); 2000 mg/kg (dermal-rabbit)
Sodium hypochlorite	> 5.25 mg/l (inhalation-rat, 4h)	8,910 mg/kg (oral-rat); >10,000 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of spray or mist may cause irritation of the respiratory tract.	
Ingestion.....	Ingestion may cause pain, irritation and burns in the mouth, throat and stomach.	
Skin contact.....	Skin contact causes irritation and possible burns.	
Eye contact.....	Eye contact may cause severe burns and permanent corneal injury. May be followed by blindness.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Virtually nontoxic by inhalation. Method: calculation method.	
Skin corrosion/irritation.....	Result: Skin corrosion.	
Serious eye damage/eye irritation.....	Result: Corrosive to eyes.	
Respiratory or skin sensitisation.....	Non-sensitizing.	
Specific target organ toxicity (STOT) ..... single exposure	Based on the available information there is no specific target organ toxicity to be expected after a single exposure.	
Aspiration hazard.....	No aspiration hazard expected.	
Chronic toxicity/effects		
Specific target organ toxicity (STOT) ..... repeated exposure	No known significant effects or critical hazards.	
Carcinogenicity.....	No carcinogenic substances as defined by IARC, NTP, OSHA and/or ACGIH.	
Reproductive toxicity.....	No known significant effects or critical hazards.	
Germ Cell Mutagenicity.....	No known significant effects or critical hazards.	
Remarks.....	The product has not been tested. The statement has been derived from the properties of the individual components.	
Symptoms of Exposure.....	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.	

**SECTION 12: ECOLOGICAL INFORMATION**

Ecotoxicity..... May cause long-term adverse effects in the aquatic environment.  
 Persistence and degradability..... Moderately persistent in the environment.  
 Bioaccumulative potential..... No data available.  
 Mobility in soil..... No data available.  
 Other adverse effects..... No applicable information available.

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**SECTION 13: DISPOSAL CONSIDERATIONS**

## Disposal methods

Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.  
Container disposal ..... Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

**SECTION 14: TRANSPORT INFORMATION**

TDG classification..... UN1814, Potassium hydroxide, solution, Class 8, PGII.

**SECTION 15: REGULATORY INFORMATION**

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian Hazardous Products Regulations and the Safety Data Sheet contains all the information required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS 2015 controlled.

**SECTION 16: OTHER INFORMATION**

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification.

Prepared by: ..... CanChem Consultant  
Preparation date..... 2019-11-09