



MATERIAL SAFETY DATA SHEET

CLEANSING POWDER

Effective date: 10-Feb-2013

SECTION 1 : IDENTIFICATION	
Product identifier:	OLD DUTCH CLEANSING POWDER INSTITUTIONAL
Chemical family :	Mixture
Product Use:	Cleanser
Supplier's name:	LAVO Inc
Address :	11900 Boul. Saint-Jean Baptiste Montréal, Québec Canada H1C 2J3
Telephone :	1-800-361-6898 or 514-526-7783
Emergency phone :	CANUTEC (transport) 1-613-996-6666

SECTION 2 : HAZARD IDENTIFICATION	
Classification :	This product is a WHMIS controlled product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR).
Emergency Overview:	White powder. WARNING! May be corrosive for Aluminium. May develop chlorine if mixed with acidic solutions. May be harmful if inhaled or swallowed. Direct contact may produce severe irritation with possible eye damage. May cause skin irritation. Contains material which can cause lung damage. Possible cancer hazard – contains material which may cause cancer.
POTENTIAL HEALTH EFFECTS: Signs and symptoms of short-term (acute) exposure	
<i>Inhalation :</i>	High concentration of dust may cause coughing and mild, temporary irritation of fumes may result in metal fume fever, a flu-like illness. Symptoms of metal fume fever may include fever, fatigue, vomiting, muscle aches and shortness of breath.
<i>Skin :</i>	May cause mild to moderate irritation.
<i>Eyes :</i>	Direct contact causes severe irritation and possibly eye injury. Could cause burns and permanent eye damage if not promptly removed.
<i>Ingestion :</i>	May cause irritation of mouth, throat and stomach. May cause nausea, vomiting and diarrhea.
Effects of long-term (chronic) exposure :	Pneumoconiosis, or "dusty lung" disease, may result from chronic exposure to any dust. Prolonged inhalation may cause adverse lung effects with symptoms including coughing, mucous production and difficulty breathing. Repeated or prolonged inhalation of fine dusts may cause severe scarring of the lungs, a disease called silicosis, and alveolar proteinosis (lower lung disease). Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin.
Carcinogenic status:	See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards:	See TOXICOLOGICAL INFORMATION, Section 11.
Potential environmental effect :	This product contains marine pollutants. See TOXICOLOGICAL INFORMATION, Section 12.

SECTION 3 : COMPOSITION/INFORMATION ON INGRÉDIENTS		
Ingrédients	CAS	Conc
Sodium Dichloroisocyanurate	2893-78-9	0.1 1 %w/w
Cristalline Silica, quartz	14808-60-7	0.5 - 1.5 %w/w
Magnesium Oxide	1309-48-4	1 - 5 %w/w
Monoalkyl (C10-C16) benzene sulfonic acid, sodium salt	68081-81-2	1 - 5 %w/w
Sodium Carbonate	497-19-8	7 - 13 %w/w
Calcium Carbonate	1317-65-3	80 - 100 %w/w



MATERIAL SAFETY DATA SHEET

CLEANSING POWDER

Effective date: 10-Feb-2013

SECTION 4 : FIRST AID MEASURES	
Inhalation :	Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.
Skin contact:	Remove/Take off immediately all contaminated clothing. Wash thoroughly with soap and water for at least 20 minutes. Obtain medical attention immediately. Wash contaminated clothing before reuse.
Eye contact :	Flush eyes thoroughly with running water for at least 20 minutes, holding eyelids open to ensure complete flushing. Seek immediate medical attention/advice.
Ingestion :	Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Seek immediate medical attention/advice.
Notes for physician :	Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES	
Fire hazards/conditions of flammability:	Not flammable under normal conditions of use. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. May develop chlorine if mixed with acidic solutions
Flammability classification (OSHA 29 CFR 1910.1200):	Not flammable.
Oxidizing properties:	None known.
Explosion data: Sensitivity to mechanical impact / static discharge:	Not expected to be sensitive to mechanical impact or static discharge.
Suitable extinguishing media:	Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Special fire-fighting procedures/equipment:	Firefighters should wear proper protective equipment and self contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.
Hazardous combustion products:	Carbon oxides; calcium oxide; sodium oxides; metal oxides; chlorine; phosgen; nitrogen oxides (NOx); chlorinated hydrocarbon; other unidentified organic compounds.

SECTION 6 : ACCIDENTAL RELEASE MEASURES	
Personal precautions:	All persons dealing with clean up should wear the appropriate chemically protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.
Environmental precautions:	Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.
Spill response/cleanup:	Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Place spilled material into a suitable labeled container for later disposal. Flush area with water. Do not flush into surface water or sanitary sewer system. Notify the appropriate authorities as required.
Prohibited materials:	Do not use combustible absorbents, such as sawdust.



MATERIAL SAFETY DATA SHEET

CLEANSING POWDER

Effective date: 10-Feb-2013

SECTION 7 : HANDLING AND STORAGE	
Safe Handling procedures:	Wear chemically resistant protective equipment during handling. Use only in well ventilated areas. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from acids and other incompatibles. Avoid and control operations which create dust. Keep containers closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapor) and can be dangerous.
Storage requirements :	Store in a cool, dry, well ventilated area. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Do not freeze. Avoid contact with aluminium.
Incompatible materials:	Acids; Aluminium; halogenated compounds; oxidizing agents; Reducing agents;
Special packaging materials:	Always keep in containers made of the same materials as the supply container.

SECTION 8 : EXPOSURE CONTROLS AND PERSONAL PROTECTION				
Exposure Limits		ACGIH TLV		OSHA
Ingredients	CAS	TWA	STEL	PEL
Sodium Dichloroisocyanurate	2893-78-9	Not available	Not available	Not available
Cristalline Silica, quartz	14808-60-7	0.025 mg/m ³ inhalable	Not available	0.1 mg/m ³ respirable
Magnesium Oxide	1309-48-4	10 mg/m ³ inhalable	Not available	15 mg/m ³ total particulate
Monoalkyl (C10-C16) benzene sulfonic acid, sodium salt	68081-81-2	Not available	Not available	Not available
Sodium Carbonate	497-19-8	Not available	Not available	Not available
Sodium Carbonate	1317-65-3	Not available	Not available	15 mg/m ³ total dust 5 mg/m ³ respirable
Ventilation and engineering measures :	Use only in well ventilated areas. Use general or local exhaust ventilation to maintain air concentration below recommended exposure limits.			
Respiratory protection :	Respiratory protection is required if the concentrations exceed the TLV. NIOSH approved respirators are recommended.			
Skin protection :	Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.			
Eye/face protection :	Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.			
Other protective equipment :	Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.			
General hygiene considerations :	Avoid breathing dust. Avoid contact with skin, eyes and clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.			

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Powder	Appearance	White powder
Odor	Citrus odor	Odor threshold	N/Av
pH (1%water)	10-11	Density	0.98
Boiling Point	N/Av	Coefficient of water/oil distribution	N/Av
Melting/Freezing Point	N/Av	Solubility in water	Partially
Vapor Pressure (mmHg @ 20°C/68°F)	N/Av	Evaporation rate (n-butyllic acetate = 1)	N/Av
Volatile organic Compounds (VOC)	N/Av	Absolute pressure of container	N/Av
Flash Point	N/Av	Viscosity	N/Av
Flash Point, method	N/Av	Auto-ignition temperature	N/Av
Lower flammable limit (%vol)	N/Av	Upper flammable limit (%vol)	N/Av
Volatiles (% by weight)	N/Av	Flashback observed	N/Av



MATERIAL SAFETY DATA SHEET

CLEANSING POWDER

Effective date: 10-Feb-2013

SECTION 10 : STABILITY AND REACTIVITY	
Stability/Reactivity:	Stable under the recommended storage and handling conditions prescribed. May develop chlorine if mixed with acidic solutions. May be corrosive to aluminium
Hazardous polymerization :	Not expected under prescribed storage and handling conditions.
Conditions to avoid	Avoid heat and open flame. Keep away from incompatibles.
Materials To Avoid and Incompatibility:	See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products :	None known. Refer also to hazardous combustion products, Section 5.

SECTION 11 : TOXICOLOGICAL INFORMATION					
Target organs:	Eyes, skin, respiratory system and digestive system.				
Routes of exposure :	<i>Inhalation:</i> YES <i>Skin Absorption:</i> NO <i>Skin & Eyes:</i> YES <i>Ingestion :</i> YES				
Irritancy:	Mild to moderate skin irritant. Severely irritating to eyes.				
Toxicological data:	There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.				
	Ingredients	CAS	CL50(4hr)inh, rat	DL50 (Oral, rat)	DL50 (Rabbit, dermal)
	Sodium Dichloroisocyanurate	2893-78-9	<847.5 mg/m ³	1420 mg/kg	>2000 mg/kg
	Cristalline Silica, quartz	14808-60-7	Not available	Not available	Not available
	Magnesium Oxide	1309-48-4	Not available	Not available	Not available
	Monoalkyl (C10-C16) benzene sulfonic acid, sodium salt	68081-81-2	Not available	1080-1980 mg/1kg	>2000 mg/kg
	Sodium Carbonate	497-19-8	Not available	2800 mg/kg	>2000 mg/kg
	Sodium Carbonate	1317-65-3	Not available	6450 mg/kg	Not available
Carcinogenic Status:	This product contains Crystalline silica–Quartz. Crystalline silica–Quartz is classified as carcinogenic by IARC (group1), ACGH (group A2), NTP (group 1) and OSHA (OSHA select carcinogen).				
Reproductive effects :	Not expected to have other reproductive effects.				
Teratogenicity :	Not expected to be a teratogen.				
Mutagenicity :	Not expected to be mutagenic in humans.				
Epidemiology :	Not available.				
Sensitization to material :	Not expected to be a skin or respiratory sensitizer.				
Synergistic materials:	Not available.				
Other important hazards:	None known or reported by the manufacturer.				
Conditions aggravated by overexposure:	Pre existing skin, eye and respiratory disorders.				

SECTION 12 : ECOLOGICAL INFORMATION	
Eco toxicity :	No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. This contains marine pollutants. Contains: Sodium dichloro isocyanurate. Toxicity to fish – LC50 96h rainbow trout: 0.13-0.36 mg/L Toxicity to daphnia - 48h EC50 0.00018 – 0.00021 mg/L
Mobility :	No data is available on the product itself.
Persistence :	No data is available on the product itself. Contains Sodium dichloro isocyanurate. Sodium dichloro isocyanurate is known to be rapidly biodegradable.
Bioaccumulation Potential:	No data is available on the product itself.
Other Adverse environmental effects :	No data is available on the product itself.



MATERIAL SAFETY DATA SHEET

CLEANSING POWDER

Effective date: 10-Feb-2013

SECTION 13 : DISPOSAL CONSIDERATIONS

Handling for Disposal :	Handle waste according to recommendations in Section 7.
Methods of Disposal:	Dispose in accordance with all applicable federal, state, provincial and local hazardous waste laws.

SECTION 14 : TRANSPORT INFORMATION

Transportation of Dangerous Goods (TDG - Canada) :	Not regulated as dangerous goods.
---	-----------------------------------

SECTION 15 : REGULATORY INFORMATION

Canadian federal regulations :	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.
WHMIS classification	Class D 2A (Materials causing other toxic effects, very toxic) Class D2B (Materials causing other toxic effects, toxic material) Class E (corrosive material)
WHMIS status	Controlled
WHMIS labeling:	

WARNING: May be corrosive to Aluminium. May be harmful if inhaled or swallowed. Direct eye contact may produce severe irritation with possible eye damage. May cause skin irritation. Contains material which can cause lung damage. Possible cancer hazard – contains material which may cause cancer.

PRECAUTIONS: Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Avoid and control operations which create dust. Keep away from heat and flame. Keep away from acids and incompatibles. Keep containers closed when not in use. Wash thoroughly after handling. Store in a cool dry; well ventilated area. Avoid contact with incompatible materials.

FIRST AIDS: if inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stopped, begin artificial respiration. Get medical attention. For skin contact, wash with soap and water while removing contaminated clothing. Get medical attention. Immediately flush eyes with running water for a least 20 minutes. Seek immediate medical attention/advice. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.

Canadian inventory status: All components of this product are either on the Domestic Substances List (DSL), the Non Domestic Substances list (NDSL) or exempt.

SECTION 16 : OTHER INFORMATION

HMIS LEGEND	0- Minimal 1-Slight 2-Moderate 3-Serious
	Health: 2 Flammability : 0 Reactivity : 1
Other information:	For an update MSDS, Please contact the supplier/manufacturer listed on the first page of the document. Reference: MSDS of suppliers. SIMDUT regulation
Disclaimer of liability:	The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Lavo Inc. expressly disclaims all expressed or implied warranties for the accuracy or completeness of the data contained herein and assumes no responsibilities for any involved damages by above data. Product's users have to do their own tests to establish the applicability of the information for a specific use of the product. MSDS data does not apply to use with any other product or in any other process.
Prepared by :	Lavo Inc. 11900 Boul. Saint-Jean Baptiste Montréal, QC, Canada H1C 2J3 Telephone : 1- 800-361-6898 www.lavo.ca
Issuing date:	10-Feb-2013
Due date:	Feb-2016