



Old Dutch Institutional cleansing powder

0009-0900

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MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product identifier : **Old Dutch Institutional cleansing powder**

Product Use : Institutional cleanser.
Chemical Family : Mixture.
Manufacturer part no. :
Supplier's name and address: **Manufacturer's name and address:**
Lavo Inc.
11900 boul. Saint-Jean-Baptiste
Montreal, QC, Canada
H1C 2J3

Information Telephone # : (514) 526-7783
24 Hr. Emergency Tel # : Not available.

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: 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). WHMIS classification:
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);
Class D2B (Materials Causing Other Toxic Effects, Toxic Material);
Class E (Corrosive Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15.

WHMIS symbols required on a supplier label:



Emergency Overview : White powder. Lemon odour.
WARNING! May be corrosive to Aluminum. May develop chlorine if mixed with acidic solutions. 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.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : High concentrations of dust may cause coughing and mild, temporary irritation. Inhalation 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.

Skin : May cause mild to moderate irritation.

Eyes : Direct contact causes severe irritation and possibly eye injury. Could cause burns and permanent eye damage if not promptly removed.

Ingestion : 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 : Cancer hazard. See TOXICOLOGICAL INFORMATION, Section 11.



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Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects

: This product contains marine pollutants. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%
Calcium carbonate	1317-65-3	80.00 - 100.00
Sodium carbonate	497-19-8	7.00 - 13.00
Sodium dodecylbenzenesulfonate	25155-30-0	1.00 - 5.00
C10-16 Monoalkylbenzene sulfonic acid, sodium salt	68081-81-2	1.00 - 5.00
Magnesium oxide	1309-48-4	1.00 - 5.00
Crystalline silica, quartz	14808-60-7	0.50 - 1.50
Sodium dichloroisocyanurate	2893-78-9	0.10 - 1.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.
- Skin contact** : Remove/Take off immediately all contaminated clothing. Wash exposed area thoroughly with soap and water for at least 15 minutes. Get medical attention.
- Eye contact** : Immediately flush eyes with running water for at least 20 minutes. Seek immediate medical attention/advice.
- Ingestion** : Do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.
- 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.

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; Phosgene; Nitrogen oxides (NOx); Chlorinated hydrocarbon; Other unidentified organic compounds.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : All persons dealing with the 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.



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- Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.
- Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Vacuum or sweep up spilled material using a method that does not generate airborne dust. Place spilled material into a suitable, labelled container for later disposal (see Section 13). Flush area with water. Do not flush into surface water or sanitary sewer system. Notify the appropriate authorities as required.
- Prohibited materials** : None known.

SECTION 7 - HANDLING AND STORAGE

- Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Do not breathe 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 vapour) and can be dangerous.
- Storage requirements** : Store in a cool, dry, well-ventilated area. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep away from incompatibles. Avoid contact with aluminum.
- Incompatible materials** : Acids; Aluminum; 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

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Calcium carbonate	N/Av	N/Av	15 mg/m ³ (Total dust); 5 mg/m ³ (respirable)	N/Av
Sodium carbonate	N/Av	N/Av	N/Av	N/Av
Sodium dodecylbenzenesulfonate	N/Av	N/Av	N/Av	N/Av
C10-16 Monoalkylbenzene sulfonic acid, sodium salt	N/Av	N/Av	N/Av	N/Av
Magnesium oxide	(inhalable) 10 mg/m ³	N/Av	15 mg/m ³ (total particulate)	N/Av
Crystalline silica, quartz	0.025 mg/m ³ (respirable)	N/Av	0.1 mg/m ³ (respirable) (final rule limit)	N/Av
Sodium dichloroisocyanurate	N/Av	N/Av	N/Av	N/Av

Ventilation and engineering measures

- Use in a well-ventilated area. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : Chemical splash goggles are recommended.
- Other protective equipment** : Wear impervious clothing to prevent skin contact. An eyewash station and safety shower should be made available in the immediate working area.
- General hygiene considerations** : Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Wash hands thoroughly after using this product, and before eating, drinking or smoking.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: powder	Appearance	: white
Odour	: Lemon odour.	Odour threshold	: N/Av
pH	: 11.09		
Boiling point	: N/Av	Specific gravity	: 0.98
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
		Solubility in water	: Partial
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Vapour density (Air = 1)	: N/Av	Volatiles (% by weight)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av		
Flash point	: N/Av	Auto-ignition temperature	: N/Av
Flash point Method	: N/Av	Upper flammable limit (% by vol.)	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Flashback observed	: N/Av
Flame Projection Length	: N/Av	Viscosity	: N/Av (solid)
Absolute pressure of container	: N/Av		
General Information	: No additional information.		

Section 10: STABILITY AND REACTIVITY

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed. May develop chlorine if mixed with acidic solutions. May be corrosive to Aluminum.
Hazardous polymerization	: Hazardous polymerisation does not occur.
Conditions to avoid	: Avoid heat and open flame. Avoid contact with incompatible materials.
Materials To Avoid And Incompatibility	: See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products	: None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs	: Eyes, skin, respiratory system, 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.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Calcium carbonate	N/Av	6450 mg/kg	N/Av
Sodium carbonate	N/Av	2800 mg/kg	> 2000 mg/kg
Sodium dodecylbenzenesulfonate	N/Av	1080 - 1980 mg/kg	> 2000 mg/kg
C10-16 Monoalkylbenzene sulfonic acid, sodium salt	N/Av	1080 - 1980 mg/kg	> 2000 mg/kg
Magnesium oxide	N/Av	N/Av	N/Av
Crystalline silica, quartz	N/Av	N/Av	N/Av
Sodium dichloroisocyanurate	< 847.5 mg/m ³	1420 mg/kg	> 2000 mg/kg



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- Carcinogenic status** : This product contains Crystalline silica - Quartz. Crystalline silica - Quartz is classified as carcinogenic by IARC (Group 1), ACGIH (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** : None known or reported by the manufacturer.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : None known or reported by the manufacturer.
- 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

- Ecotoxicity** : 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 product contains marine pollutants. Contains: Sodium dichloroisocyanurate. The acute toxicity of Sodium dichloroisocyanurate is (literature):
Toxicity to fish - LC50/96h/rainbow trout = 0.13 - 0.36 mg/L
Toxicity to daphnia - EC50/48h/daphnia = 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 dichloroisocyanurate. Sodium dichloroisocyanurate 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.

SECTION 13 - DISPOSAL CONSIDERATIONS

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

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	Not regulated unless shipping internationally by sea. This product contains marine pollutants. See ECOLOGICAL INFORMATION, Section 12.				

SECTION 15 - REGULATORY INFORMATION

Labelling:

Warning! May be corrosive to Aluminum. 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 extreme 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.



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FIRST AID: 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 at 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.

Refer To Material Safety Data Sheet for further information.

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.



US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

SECTION 16 - OTHER INFORMATION

- Legend** :
- ACGIH: American Conference of Governmental Industrial Hygienists
 - CAS: Chemical Abstract Services
 - CPR: Controlled Products Regulation
 - HSDB: Hazardous Substances Data Bank
 - IARC: International Agency for Research on Cancer
 - Inh: Inhalation
 - MSHA: Mine Safety and Health Administration
 - N/Ap: Not Applicable
 - N/Av: Not Available
 - NIOSH: National Institute of Occupational Safety and Health
 - NTP: National Toxicology Program
 - OSHA: Occupational Safety and Health Administration
 - PEL: Permissible exposure limit
 - RTECS: Registry of Toxic Effects of Chemical Substances
 - STEL: Short Term Exposure Limit
 - TDG: Canadian Transportation of Dangerous Goods Act & Regulations
 - TLV: Threshold Limit Values
 - TWA: Time Weighted Average
 - TSCA: Toxic Substance Control Act
 - WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2010.
 2. International Agency for Research on Cancer Monographs, searched 2010.
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2010 (Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheets from manufacturer.

<p><u>Prepared for:</u> Lavo Inc. 11 900, boul. Saint-Jean-Baptiste Montreal, QC, Canada, H1C 2J3 Telephone: (514) 526-7783 Please direct all enquiries to Lavo.</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	



Lavo Inc.
11 900, boul. Saint-Jean-Baptiste
Montreal, QC, Canada
H1C 2J3

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