

Safety Data Sheet

Section 1: Product and Company Identification

Product Name: **NELLIE'S AUTO DISH POWDER**

Product Use: Machine Dish Washing

Details of Manufacturer

V.I.P. Soap Products Ltd
32859 Mission Way
Mission BC V2V 6E4
Canada

Phone: 1-604-820-8665
FAX 1-604-820-8804
Date of Preparation: April, 2018
Expires: April, 2021

Emergency Phone Numbers

Canada – CANUTEC 1-613-996-6666 OR *666 Cell Phone
USA or CANADA: Call CHEMTREC 1-800-424-9300

Section 2: Hazards Identification

Eye irritant  Data from Toxnet

Section 3: Hazardous Ingredients

INGREDIENT	LD ₅₀	LC ₅₀	CAS#	RANGE %
Citric Acid	3000 mg/kg	No data	77-92-9	10 – 20
Sodium Carbonate	4090mg/kg	No Data	497-19-8	10 – 20
Sodium Metasilicate	3200mg/kg	No Data	10213-79-3	1 – 10
Sodium Percarbonate	2400mg/kg	No Data	15630-89-4	1 – 10

Section 4: First Aid Measures

Ingestion: If swallowed give plenty of clean water to drink. Do not induce vomiting. Obtain Medical Advice.

Eye Contact: In case of contact with eyes, flush with clean cool water for fifteen minutes. If discomfort continues, obtain medical attention

Section 5: Fire Fighting Measures

Flash Point °C	None
Extinguishing Media	Use Flooding quantities of water, water spray or fog.
Special Fire Fighting Procedure	Keep container tightly closed. Powerful oxidizing agent
Unusual Fire or Explosion Hazard	None
Flammable Limits	None
Auto Ignition Temperature	None
Conditions of Flammability	None

Section 6: Accidental Release Measures

Contain accidental spills and prevent access to storm water drains or surface water run-off.
Spilled material collected for re-used where feasible.
Containerize unusable material for recovery or disposal according to local or state regulations

Section 7: Handling and Storage

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Store in original containers. Keep out of reach of children and pets. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Avoid freezing and heat. Follow use directions given on the label. Keep container tightly closed.

Section 8: Exposure Controls – Personal Protection

Personal Protective Equipment

No specific personal protection is required. Prevent eye contact

Respiratory Protection:	Not normally required, prevent inhalation of dusts.
Ventilation:	Normal ventilation is adequate
Protective Gloves:	Not normally required
Eye Protection:	Protect eyes from contact or splashes

Section 9: Physical and Chemical Properties

Physical State	Granulated powder	Appearance	White granules
Odor	Odorless	Odor Threshold	Not apply
pH	7 – 10	Bulk Density	1000 – 1200 g/L
Solubility in Water	Soluble	Freezing/Melting °C	Not apply
Flash Point	Not apply	Vapor Pressure	No Data
Boiling Point	Not apply	Evaporation Rate	Not apply
Lower Flammability	None	Upper Flammability	Not apply
Auto- Ignition Temp	None	Decomposition temp	Not apply
Viscosity @20°C	None	Vapor Density	No Data
Partition Coefficient	>1		

Section 10: Stability and Reactivity

Reactivity	Product is stable
Chemical Stability	Product is stable.
Possible Hazardous Reactions	None
Conditions to Avoid	None specific
Incompatibilities	Avoid contact with alkaline substances
Decomposition	Will not decompose under normal conditions

Section 11: Toxicological Information

Routes of Exposure

Symptoms Summary

Acute toxicity: **Citric Acid** is not suspected of being a carcinogen nor a reprotoxic or teratogenic agent. In addition, the sensitizing potential is seen as low. In contrast, irritation, in particular of the eyes but also of the respiratory pathways and the skin, is the major toxicological hazard presented by citric acid.

Sodium Carbonate The acute oral LD 50 in rats is 2,800 mg/kg bw. Sodium carbonate has no or a low skin irritation potential but it is considered irritating to the eyes. Due to the alkaline properties, an irritation of the respiratory tract is also possible.

Sodium Metasilicate is a GRAS food ingredient. The acute oral LD50 of Sodium Metasilicate ranged from 847 mg/kg in male rats to 1349.3 mg/kg in female rats. Sodium Metasilicate/carbonate detergent (37% Sodium Metasilicate) mixed 50/50 with water was considered a severe skin irritant when tested on the intact and abraded human skin.

Sodium Percarbonate Eye Irritation: aqueous solution was considered not irritant while the powder was considered a severe eye irritant.

Skin Contact	None reported
Skin Absorption	Unlikely
Eye Contact	May cause irritation or redness - irritant
Inhalation Acute	Unlikely
Inhalation Chronic	Unlikely
Ingestion	Unlikely

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Irritancy	Classified as an irritant by WHMIS criteria
Effects of Acute Exposure	Repeated contact may dry the skin
Effects of Chronic Exposure	None reported
Carcinogenicity	None reported
Reproductive Toxicity	None reported
Teratogenicity	None reported
Mutagenicity	None reported
Name of Toxicological Synergistic Product:	None

Section 12: Ecological Information

General Ecological information:

Citric Acid Based on the available data, citric acid is not judged a substance that presents a hazard to the environment.

Sodium Carbonate Environmental effects mainly due to the pH changed caused by carbonate ion in water thus it affects aquatic life mainly. LC 50 is 100 mg/L for Amphipoda, 67-80mg/L for Salmon and trout can be lethal depending on initial pH of the water. [Found on TOXNET]

Sodium Percarbonate Acute ecotoxicity tests with fish and water fleas revealed LC50 values of 71 and 4.9 mg/l. The observed aquatic toxicity from sodium percarbonate is due to the formation of hydrogen peroxide when dissolved. The peroxide oxidizes and becomes water and oxygen, thus sodium percarbonate has no adverse effects on aquatic ecosystems. [Found on Hera Project]

Sodium Metasilicate Material is not persistent in aquatic systems but can be dangerous because of the large pH change it causes. Does not bioaccumulate.

Section 13: Disposal Considerations

Waste disposal of the product;

Containerize minor spills for reuse where possible.

Contaminated product should be labeled and stored for disposal.

Larger quantities are disposed of according to local and municipal regulations

Section 14: Transport Information

General Information:

Not regulated according Canada Transport of Dangerous Goods

Not regulated according to USA Department of Transportation

Section 15: Regulatory Information

Inventory Status: All ingredients listed are on the Canadian Domestic Substances List and the TSCA 2008 List

Section 16: Other Information

Preparation Data:

Prepared by Technical Advisory Service. Phone 1-604-820-8665. The information provided in this Safety Data Sheet obtained from sources believed to be reliable. V.I.P. Soap Products Ltd. provides no Warranties for the accuracy or completeness of the data contained herein. Product classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains information as required by the Controlled Products Regulations. PSCLtd