

Dran-Net

185 H Industrial Parkway

Branchburg, N.J 08876

908.236.0277

Safety Data Sheet Soda Nozzle Defender

1. IDENTIFICATION

Identification	Item No. SND-21,22,23
Product Identity	Powder Form
Material Use	Soda Nozzle & Diffuser cleaner for soda machines.

EMERGENCY NUMBER:	ChemTel 1.800.255.3924
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Contract Number	MIS2933514
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2. HAZARD IDENTIFICATION

GHS Class (Category)	<i>skin irritant</i> (2)	<i>eye irritant</i> (2A)	<i>STOT (3)</i> WARNING
Signal Words	WARNING	WARNING	
Hazard Statements	<i>causes skin irritation</i> (H315)	<i>causes severe eye irritation</i> (H319)	<i>may cause respiratory tract irritation</i> (H335)



GHS Precautionary Statements for Labeling

P260, P262, P264 Do not breathe dust. Do not get in eyes or on skin. Wash thoroughly after handling.
P280 Wear eye protection and protective gloves of nitrile.
P313 & P333 If skin irritation or rash occurs, get medical advice/attention.
P304 & P340 If inhaled, remove person to fresh air and keep comfortable for breathing.
P305, P351, P338 If in eyes, rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

3. COMPOSITION

	CAS NUMBER	%	TLV ppm / mg/m ³ not listed	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ ppm INHALATION
Sodium Sulfate	7757-82-6	82.5%	listed	>5990	not toxic	not known
Sodium Tripolyphosphate	7758-29-4	12%	not listed	3100	>4640	not known
Sodium Dichloroisocyanurate	2893-78-9	3%	not listed	>1470	>2000 not known	>850 not known
Sodium Metasilicate (<i>anhydrous</i>)	13517-24-3	2%	not listed	850	known	known

4. FIRST AID

SKIN: Wash with plenty of water. Remove contaminated clothing and do not reuse until laundered. Seek medical help promptly if there is persistent itching or redness in the affected area.

EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance if there is persistent irritation.

INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.

INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

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PLEASE ENSURE THAT THIS SDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

EMERGENCY INFORMATION: INFOTRAC 1-800-535-5053

5. FLAMMABILITY & FIRE-FIGHTING

Flash Point	cannot burn
Autoignition Temperature	cannot burn
Flammable Limits	cannot burn
Combustion Products	oxides of carbon, nitrogen, phosphorous & sodium; <i>also</i> chlorine, cyanogen chloride, phosgene
Firefighting Precautions	as for materials sustaining fire; compatible with water; firefighters must wear SCBA
Static Discharge	cannot accumulate a static charge

6. ACCIDENTAL RELEASE MEASURES

Leak Precaution	dike to control spillage and prevent environmental contamination
Handling Spill	absorb on an inert sorbent, sweep, shovel & store in closed containers for disposal

7. HANDLING & STORAGE

Keep dry. Keep away from acids which can cause the release of chlorine gas. Avoid generating or breathing product dust. If dust forms in use, install adequate ventilation to clear workplace air. Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.

8. EXPOSURE CONTROL & PERSONAL PROTECTION

ACGIH TLV	not listed	ACGIH STEL	not listed
OSHA PEL	not listed	OSHA STEL	not listed
Ventilation	no special mechanical ventilation required		
Hands	wear nitrile or rubber gloves – <i>always confirm suitability with supplier</i>		
Eyes	safety glasses with side shields – <i>always protect eyes!</i>		
Clothing	no special protective clothing required		

9. PHYSICAL AND CHEMICAL PROPERTIES

NOTE: for Flash Point, Autoignition Temperature & Flammable Limits see Part 5.

Odor & Appearance	white powder, which may have an astringent chlorine (bleach) odor
Odor Threshold	0.1ppm – <i>for chlorine gas; the components are odorless</i>
Vapor Pressure	not known – <i>none of the components form a vapor</i>
Evaporation Rate (<i>Butyl Acetate = 1</i>)	not known – <i>none of the components are volatile</i>
Vapor Density (<i>air = 1</i>)	not known – <i>none of the components are volatile</i>
Boiling Point	not known – <i>decomposes without boiling</i>
Melting Point	not known – <i>decomposes without melting</i>
Decomposition Temperature	sodium dichloroisocyanurate decomposes at 225°C / 437°F
Density	not measured – approximately 2.5kg/liter
Water Solubility	not measured – approximately 280 grams/liter (<i>highly water soluble</i>)
Log P _{o/w} (<i>Octanol/H₂O Partition Coefficient</i>)	not known
Viscosity	not applicable – <i>solid substance</i>
pH	10 – <i>moderately alkaline</i>

10. REACTIVITY

Dangerously Reactive With	not known
Also Reactive With	acids cause release of (<i>toxic & corrosive</i>) chlorine gas
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	moisture, heating above 225°C
Decomposition Products	apart from Hazardous Combustion Products; hypochlorous acid, chlorine gas, nitrogen trichloride
Mechanical Impact	not sensitive

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11. TOXICITY INFORMATION

i. ACUTE EXPOSURE

Skin Contact	irritating to moist skin
Skin Absorption	probably nil; no toxic effects by this route
Eye Contact	severely irritating
Inhalation	product dust may irritate respiratory system
Ingestion	irritating to mouth, throat and stomach – <i>not a route of industrial exposure</i>
Calculated LD ₅₀ (oral)	4540mg/kg (rat)
LD ₅₀ (skin)	<i>insufficient information to calculate</i>
LC ₅₀ (inhalation)	<i>insufficient information to calculate</i>

ii. CHRONIC EXPOSURE

General	prolonged or repeated exposure to dilute solutions may cause dermatitis
Sensitizing	not a sensitizer
Carcinogen/Tumorigen	not known to be a tumorigen or a carcinogen in humans or animals
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

12. ECOLOGICAL INFORMATION

Sodium Sulfate:

Bioaccumulation	highly water soluble; cannot bioaccumulate
Biodegradation	inorganic substance; cannot biodegrade
Abiotic Degradation	not known – probably undergoes ion exchange with soil materials
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity *sodium sulfate is not toxic to aquatic life*

Sodium Tripolyphosphate:

Bioaccumulation	cannot bioaccumulate
Biodegradation	cannot biodegrade; plants use phosphate as a fertilizer, removing it from the environment
Abiotic Degradation	gradual (faster in acidic medium) hydrolysis to orthophosphate (coupled to various metallic ions)
Mobility in soil, water	water soluble & may move readily through soil & the water column; <i>the phosphate ion precipitates in the presence of calcium or magnesium ions, so may not move far</i>

Aquatic Toxicity

LC ₅₀ (Fish, 48hr)	1600mg/liter (Leuciscus idus)
EC ₅₀ (Crustacea, 50hr)	1089mg/liter (Daphnia magna)
EC ₅₀ (Algae)	not toxic to aquatic life – <i>promotes algal blooms on surface water, eventually causing eutrophication</i>
EC ₅₀ (Bacteria)	1000mg/liter (activated sludge, domestic)

Sodium Dichloroisocyanurate:

Bioaccumulation	highly water soluble; cannot bioaccumulate
Biodegradation	inorganic components do not biodegrade
Abiotic Degradation	hydrolyses to cyanuric acid & chlorine
Mobility in soil, water	water soluble; moves readily through soil & the water column

Aquatic Toxicity

LC ₅₀ (Fish 96 hr)	0.14-0.18mg/liter (Lepomis macrochirus) ¹
LC ₅₀ (Crustacea, 48hr)	0.11mg/liter (Daphnia magna) ¹
EC ₅₀ (Algae, 96hr)	0.6mg/liter (Pseudokirchnerella subcapitata) ¹
LC ₅₀ (Microorganisms)	not known

Sodium Metasilicate:

Bioaccumulation	not a bioaccumulator
Biodegradation	inorganic product – does not biodegrade
Abiotic Degradation	water-soluble substance, dilutes readily in the environment; combines with metal ions to form insoluble calcium, aluminum, magnesium & iron silicates similar to naturally occurring silicates
Mobility in soil, water	water soluble; moves readily in soil and water

Aquatic Toxicity

LC ₅₀ (Fish, 96hr)	365mg/liter (Brachydanio rerio), 4037mg/liter (Gambusia affinis)
EC ₅₀ (Crustacea, 96hr)	376mg/liter (Daphnia magna), 1100mg/liter (Lymnia sp.), 278mg/liter (Hyalella sp.)
EC ₅₀ (Algae)	no data
EC ₀ (Bacteria)	>1740mg/liter (Pseudomonas putida) – <i>this is an LC₀, so no inhibition!</i>

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13. DISPOSAL CONSIDERATIONS

Waste Disposal flush small amounts to the sewer, well diluted with a large amount of water
Containers **Drums** should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use.
Pails must be vented and thoroughly dried prior to crushing and recycling.
IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months.
Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.
Warning: never cut, drill, weld or grind on or near this container, even if empty.

14. TRANSPORT INFORMATION

USA 49 CFR & Canada/International TDG

Product Identification Number

UN – not regulated for transport

Shipping Name

not regulated for transport

Classification

not regulated for transport

Marine Pollution

not a marine pollutant

ERAP Required

No

Reportable Quantity (RQ)

none

15. REGULATIONS

Canada DSL

on inventory

U.S.A. TSCA

on inventory

Europe EINECS

on inventory

16. OTHER INFORMATION

Date of Preparation

May 2015

Date of Revision

Prepared for: Pure Drain Defender -

With data from the Registry of Toxic Effects of Chemical Substances (RTECS), Hazardous Substance Data Base (HSDB), Cheminfo (CCOHS), OSHA, IUCLID Datasheets (European Chemical Substance Information System - ESIS), & others sources (below if used), as required/available

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