



SANI-MARC

*Les Produits. Et les Hommes.
People and Their Products.*

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Material Safety Data Sheet

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Trade name	SANI-OSMO	<table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Environment</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	2	Environment	0	Reactivity	0
Health	2							
Environment	0							
Reactivity	0							
Code	05-10105							
Supplier	SANI-MARC INC. 42 boul. de l'Artisan, Victoriaville, Qc (819) 758-1541	Personal Protection	C					
Manufacturer	SANI-MARC INC. 42 boul. de l'Artisan, Victoriaville, Qc (819) 758-1541	Protective Clothing 						
Material uses	Industrial applications: Alkaline cleaner for osmosis membranes.	Governmental Approbations Not applicable.						

Eye contact	Check for and remove any contact lenses. IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Finish by rinsing thoroughly with running water to avoid a possible infection. COLD water may be used.
Skin contact	After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. COLD water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Hazardous skin contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.
Slight inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.
Slight ingestion	DO NOT induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Hazardous ingestion	No additional information.

Name	CAS #	% by Weight	TLV/PEL	LC ₅₀ /LD ₅₀
Caustic soda	1310-73-2	10-30	TWA: 2 (mg/m ³) from ACGIH	ORAL (LD50): Acute: 500 mg/kg [Rabbit]. DERMAL (LD50): Acute: 1350 mg/kg [Rabbit].
Acetic acid	64-19-7	10-30	TWA: 10 (ppm) from ACGIH TWA: 10 (ppm) from OSHA	ORAL (LD50): Acute: 3310 mg/kg [Rat]. DERMAL (LD50): Acute: 1080 mg/kg [Rabbit]. GAS (LC50): Acute: 18000 ppm 4 hour(s) [Rat].




Physical state and appearance	Liquid. (transparent liquid).	Color	Colorless.
pH (Pure)	13 (Basic.)	Odor	Characteristic.
pH (1% soln/water)	11.5 [Basic.]		
Odor threshold	The highest known value is 0.48 ppm (Acetic acid)		
Volatility	Not available.		
Freezing point	May start to solidify at 0°C (32°F) based on data for: Water.		
Boiling/Condensation point	The lowest known value is 100°C (212°F) (Water). Weighted average: 102.7°C (218.9°F)		
Specific gravity	1.144 (Water = 1)		
Vapor density	The highest known value is 2.07 (Air = 1) (Acetic acid). Weighted average: 1.18 (Air = 1)		
Vapor pressure	The highest known value is 17.2 mm of Hg (@ 20°C) (Water). Weighted average: 18.28 mm of Hg (@ 20°C)		
Evaporation rate	Not available.		
Viscosity	Not available.		
Water/oil dist. coeff.	The product is much more soluble in water.		
Ionicity (surface active agent)	Not available.		
Critical temperature	Not available.		
Instability temperature	Not available.		
Conditions of instability	No additional remark.		
Dispersion properties	Is not dispersed in methanol, diethyl ether, n-octanol. See solubility in water, methanol, diethyl ether.		
Solubility	Easily soluble in cold water, hot water, methanol. Soluble in diethyl ether. Insoluble in n-octanol.		


The product is:	Non-flammable.
Auto-ignition temperature	Not applicable.
Fire degradation products	Not applicable.
Flash points	Not applicable.
Flammable limits	Not applicable.
Fire extinguishing procedures	Not applicable.
Flammability	Not applicable.
Risks of explosion	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.

Stability	The product is stable.
Hazardous decomp products	Not available.
Degradability	The BOD5 is 0.88 [Day(s)] The COD is 1 [Day(s)]
Products of degradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The products of degradation are as toxic as the original product.
Corrosivity	of copper. Slightly corrosive in presence of steel, of aluminum, of zinc. Non-corrosive in presence of glass, of stainless steel(304), of stainless steel(316).
Reactivity	Extremely reactive or incompatible with oxidizing agents. Highly reactive with reducing agents. Reactive with organic materials, metals, acids. Non-reactive with alkalis.

Routes of entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
TLV	<small>TLV Total Dust mg/m³ Time 8 hrs 100%</small>
Toxicity for animals	WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 500 mg/kg [Rabbit]. (Caustic soda). Acute dermal toxicity (LD50): 4848 mg/kg [Rabbit] (Calculated value for the mixture). Acute toxicity of the gas (LC50): 18000 ppm 4 hour(s) [Rat]. (Acetic acid).
Chronic effects on humans	Hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant), of ingestion, of inhalation, lungs irritant. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Classified NONE for human [Caustic soda]. TERATOGENIC EFFECTS: Classified NONE for human [Caustic soda]. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to skin, eyes.
Acute effects on humans	Hazardous in case of skin contact (corrosive, irritant, sensitizer, permeator), of eye contact (irritant), of ingestion, of inhalation, lungs irritant, lungs sensitizer.

Waste information	Not available.
Waste stream	Not available.
Storage	Alkaline may be stored in heavy duty gauge steel containers. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.
Precautions	Keep locked up. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids.
Small spill and leak	Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of acetic acid.
Large spill and leak	Poisonous liquid. Stop leak if without risk. DO NOT get water inside container. DO NOT touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.
Protective clothing	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

TDG road / rail	TDG CLASS 8: Corrosive liquid.	
	Shipping name: Corrosive liquid n.o.s. UN 1760 PG: II	
Maritime transportation	Not available.	
WHMIS	WHMIS CLASS D-2A: Material causing other toxic effects (VERY TOXIC). WHMIS CLASS E: Corrosive liquid.	
Federal and provincial regulations	No products were found.	

Protective clothing	Safety glasses. Synthetic apron. Gloves (impervious). Wear appropriate respirator when ventilation is inadequate.	
Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.	

References	Not available.
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No additional remark.

Validated by Service santé et sécurité on 97-09-22.	Verified by Service santé et sécurité. Prints.
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Emergency phone: CANUTEC (613) 996-6666

In the list of our inventories and references chemical hazards is reported. However, neither the above named supplier nor any of its subsidiaries assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of hazard to the user is the responsibility of the user. All products are prepared according to the standards and should be used with caution. Although certain hazards are described herein, no product information that does not apply to the hazard is given.