


MS Solv

SECTION 1 - IDENTIFICATION

Product identifier:	MS Solv
Product code:	
Recommended use:	Alkaline cleaner.
Chemical name :	Mixture.
Supplier identifier:	SAVONS EVY 3460 39e Avenue, Montréal, QC H1A 3V1 514-642-9920
Emergency phone:	Canutec (613) 996-6666 24 hrs

SECTION 2 - HAZARD IDENTIFICATION

Classification	Corrosive to metals 1 Skin corrosion 1 Severe eye damage 1 Specific target organ exposure, single exposure; Respiratory tract irritation 3	
Signal word	DANGER	
Hazard statement	H290 H314 H319 H335	May be corrosive to metals. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation.
Precautionary statement - Prevention	P234 P260 P264 P280	Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement - Response	P271 P390 P301+P330+P331 P303+P361+P353	Use only outdoors or in a well-ventilated area. Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water (or shower).
Precautionary statement - Storage	P363 P304+P340 P310 P321 P305+P351+P338 P304+P340 P312 P406 P403+P233 P405	Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Specific treatment: Treat as chemical burns. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Store in a corrosion resistant container or with a resistant inner liner. Store in a well ventilated place. Keep container tightly closed. Store locked up.
Precautionary statement - Elimination	P501	Dispose contents/containers according to municipal, provincial and federal regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS	% (weight)
2-Butoxyethanol	111-76-2	10 – 30 *
Sodium metasilicate	6834-92-0	5 – 10 *
Potassium hydroxyde	1310-58-3	1 – 5 *
Alcohols, C12-14, ethoxylated	68439-50-9	1 – 5 *

*TRADE SECRET STATEMENT: The exact concentration of composition has been withheld as a trade secret.

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SECTION 4 - FIRST AID MEASURES

Inhalation:
IF INHALED: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CONTROL CENTER or physician.

Skin contact:
IF ON SKIN: Take off all contaminated clothing. Rinse skin with water for 20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing/ jewellery and wash it before reuse.

Eye contact:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:
NEVER give anything orally if victim is losing consciousness, is unconscious or having convulsions. Rinse mouth with water thoroughly. DO NOT INDUCE VOMITING. Ask victim to drink two glasses of water. If vomiting occurs naturally, lean victim forward to reduce risks of aspiration. Continue to drink water. Obtain medical care.

Note to physician:
Treat as chemical burns.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, depending on conditions of fire.

Unsuitable extinguishing media: Direct water jet may disperse product.

Hazardous combustion products : Carbon oxides, nitrogen oxides, potassium oxides, hydrogen, acrid smoke.

Protective equipment : Fire-fighters must wear protective equipment and NIOSH approved self-contained breathing apparatus.

Precautions: Retain water run-off. Prevent infiltration in sewers or waterways.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Protective equipment:
Wear appropriate respiratory equipment (See Section 8). Avoid direct contact with product. Remove non-essential personnel.

Containment and clean up:
Ventilate spill area. Stop spill if safe to do so. Contain and absorb with an inert absorbing material for future disposal (See Section 13). Prevent spill from entering sewers or waterways. Retain water run-off if applicable. Inform proper authorities if necessary.

Environmental precautions:
Avoid entering sewers, waterways or restricted areas. Eliminate according to municipal, provincial and federal regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:
Containers must be identified correctly. Handle in a well ventilated area. Avoid breathing dust, vapours or mists. Avoid contact with eyes, skin and clothes. Keep containers closed when not in use. Protect from day light. Empty containers may contain residues and must be handled as hazardous waste. Maintain good personal hygiene before eating, drinking or smoking. Do not eat, drink or smoke while using the product or in proximity. Wash contaminated clothing before reuse.

Conditions for safe storage:
Store in a well-ventilated place. Keep cool. Store away from incompatible materials. Keep containers closed.

Incompatible materials :
Strong acids, aqueous solutions can attack certain metals (such as aluminum, tin, lead or zinc) to form hydrogen, a flammable and / or explosive gas.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits:

Ingredients	CAS	SOURCE	Values
2-Butoxyethanol	111-76-2	ACGIH	STEL 0.2 mg/m ³
		OSHA	TWA 1 mg/m ³
		NIOSH	TWA 1 mg/m ³
		NIOSH	IDLH 15 mg/m ³
		CSST	TWA 1 mg/m ³
		CSST	STEL 3 mg/m ³

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Sodium metasilicate	6834-92-0		No established limits.
Potassium hydroxyde	1310-58-3	CSST NIOSH	IDLH 14 mg/m ³ C 2 mg/m ³
Alcohols, C12-14, ethoxylated	68439-50-9		No established limits.

Engineering controls:

Local ventilation system is recommended to maintain concentrations of contaminants below exposure limits.

Protection of airways:

Respiratory protection is required if concentration are above exposure limits. Use a NIOSH approved autonomous respiratory apparatus if exposure limits are unknown.

Protective equipment and clothing:

Wear chemical / impermeable gloves or other protective clothing to prevent repeated or continuous contact with the skin during handling and usage. Wear goggles to prevent mist, vapours or dust to contact eyes. Insure that eyewash stations, showers and cleaning stations are near to work station.

General hygiene recommendations :

Avoid production of high concentrations of dust, vapours or mists. Avoid contact with skin and eyes. Avoid breathing dust, vapours or mists. Never eat, drink or smoke near work stations. Good hygiene is recommended after using this product. Clean clothing before reuse.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colourless, transparent liquid.
Odour :	Acrid.
Odour threshold:	Not available.
pH :	>13.0
Melting point:	Not available.
Initial boiling point:	Not available.
Flash point:	Not applicable.
Evaporation rate (butyl acetate = 1):	Not available.
Flammability:	Not flammable.
LIL:	Not applicable.
UIL:	Not applicable.
Vapour pressure:	Not available.
Vapour density (air=1):	Not available.
Relative density:	1.0 (estimated).
Solubility:	Soluble.
Partition coefficient (n-octanol/water):	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Volatiles:	Not available.
Viscosity:	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Stability and reactivity :	Stable under recommended conditions and expected usage.
Polymerisation:	No.
Conditions to avoid :	Contact with incompatible materials.
Incompatible materials :	Strong acids, aqueous solutions can attack certain metals (such as aluminum, tin, lead or zinc) to form hydrogen, a flammable and / or explosive gas.
Hazardous decomposition products :	Carbon oxides, nitrogen oxides, potassium oxides, hydrogen.

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicological data:				
Hazardous ingredient	CAS	% (weight)	DL₅₀ (route, species)	CL₅₀ (species)
2-Butoxyethanol	111-76-2	10 – 30	560 mg/kg, oral, rat 400 mg/kg, dermal, rabbit	450 ppm, 4 h, rat
Sodium metasilicate	6834-92-0	5 – 10	1152 – 1349, oral, rat >5000, dermal, rat	>2060 mg/m ³ , rat

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Potassium hydroxyde	1310-58-3	1 – 5	273 mg/kg, oral, rat	No data.
Alcohols, C12-14, ethoxylated	68439-50-9	1 – 5	>2000 mg, oral, rat >2000 mg, dermal, rat	>20 mg/L, vapour >5 mg/L, mist
Short term exposure (acute) :				
Inhalation:	May irritate respiratory tract. Cough, sneezing.			
Skin:	Causes sever skin burns. Redness, pain, burns, skin lesions, blisters.			
Eyes:	Causes sever eye damage. Redness, pain, tearing, lesions to cornea.			
Ingestion:	Burns to mouth and digestive systems.			
Long term exposure (chronic) :				
Inhalation:	No data.			
Skin:	No data.			
Eyes:	No data.			
Ingestion:	No data.			
Carcinogenicity :	2-Butoxyethanol	111-76-2	Group 3: Not classifiable as to its carcinogenicity to humans.	
Teratogenicity:	No data.			
Mutagenicity:	No data.			
Target organ:	No data.			
Conditions aggravated by exposure :	No data.			



SECTION 12 - ECOLOGICAL INFORMATION

Hazardous ingredient	CAS	% (weight)	Value	Species
2-Butoxyethanol	111-76-2	10 – 30	LC50 1490 mg/L, 96h, statique LC50 2950 mg/L, 96h LC50 1474 mg/L, 96 h, statique EC50 1800 mg/L, 48 h, statique EC50 977 mg/L, 72 h, statique	Lepomis macrochirus Lepomis macrochirus Oncorhynchus mykiss Daphnia magna Pseudokirchneriella subcapitata
Sodium metasilicate	6834-92-0	5 – 10	LC50 210 mg/L, 96h EC50 1700 mg/L, 48h	Danio rerio Daphnia magna
Potassium hydroxyde	1310-58-3	1 – 5	LC50 80 mg/L, 96h	Gambusia affinis
Alcohols, C12-14, ethoxylated	68439-50-9	1 – 5	LC50 1 – 10 mg/L EC50 0.1 – 1 mg/L EC50 0.1 – 1 mg/L EC0 >100 mg/L	Brachydanio rerio Daphnia magna Scenedesmus subspicatus Bactéries
Persistence and degradability :	Not determined.			
Bioaccumulation potential:	Not determined.			
Mobility in soil:	Not determined.			
Other adverse effects :	Not determined.			

SECTION 13 - DISPOSAL CONSIDERATIONS

Safe handling for disposal:	Store materials for elimination and contaminated packaging as indicated in Section 7 Handling and Storage.
Methods of disposal :	Dispose contents/containers according to all municipal, provincial and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

UN Number	Proper shipping name	Class	Packing group	Placard
UN1760	CORROSIVE LIQUID N.O.S. (Sodium metasilicate, potassium hydroxide)	8	III	
Limited quantity:	5 L			
Special precautions:	No.			

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Environmental No.
dangers:

SECTION 15 - REGULATORY INFORMATION

Canadian Environmental Protection Act (CEPA): Components of this product are listed in the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL) or are exempt.
Others : Components of this product are listed on the TSCA or are exempt.

SECTION 16 - OTHER INFORMATION

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Abbreviations:

ACGIH	American Conference of Governmental Industrial Hygienists
AIHA	American Industrial Hygiene Association
CAS	Chemical Abstract Service
CL / LC	Concentration létale /Lethal concentration
DL / LD	Dose létale / Lethal dose
IARC	International Agency for Research on Cancer
LES	Liste extérieure des substances (NDSL)
LIS	Liste intérieure des substances (DSL)
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program (U.S.A.)
OSHA	Occupational Safety and Health Administration (U.S.A.)
PEL	Permissible Exposure Limit
SIMDUT	Système d'information sur les matières dangereuses utilisées au travail
STEL	Short-term Exposure Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
USEPA	United States Environmental Protection Agency
WHMIS	Workplace Hazardous Materials Information System

All information indicated in the present document are based on data supplied by recognized technical sources. While the information is believed to be accurate, the manufacturer makes no representations as to its accuracy or sufficiency. Users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process.