



GATOR EFFLORESCENCE CLEANER
FOR CONCRETE PAVERS & NATURAL STONES
MSDS Revision Date (dd/mm/yyyy): 04/04/2012

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1 - PRODUCT & COMPANY IDENTIFICATION

Product name : GATOR EFFLORESCENCE CLEANER
Supplier : Alliance Designer Products Inc.
225 Blvd Bellerose West
Laval, Quebec
Canada
H7L 6A1
www.alliancegator.com
Chemical Family : Mixture containing acids.
Trade name : Not available.
Material uses : Concrete cleaner - Acid cleaning solution for removing salt.
Manufacturer : Proprietary
Code :
Validation date : 31 january 2012
Print date : 10 april 2012
Responsible name : Alliance Designer Products Inc.
Information Telephone # : (450) 624-1611 or 866-212-1611 (Toll Free)
In case of emergency : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS classification:
Class E (Corrosive Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200).
Hazardous classification:
Acute Health Hazard.
Emergency Overview : Clear yellow liquid. Disagreeable odour (strong).
DANGER!
Corrosive. Causes eye, skin and digestive tract burns. May be harmful if inhaled or swallowed.
Causes respiratory tract irritation. May cause lung inflammation and lung damage with extreme exposures. Contact with metals may release small amounts of flammable hydrogen gas.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : Inhalation of mist causes irritation of respiratory system. Symptoms may include coughing, choking and wheezing. Could result in pulmonary edema (fluid accumulation). Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed.
Skin : Causes skin burns.
Eyes : Causes burns. Symptoms may include severe pain, blurred vision, redness and corrosive damage.
Ingestion : May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include severe abdominal pain, nausea and vomiting.

Effects of long-term (chronic) exposure

Prolonged or repeated contact may cause drying, cracking and defatting of the skin. In extreme cases, tooth erosion could result.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.
Additional health hazards : See TOXICOLOGICAL INFORMATION, Section 11.
See ECOLOGICAL INFORMATION, Section 12.
Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt. %
Phosphoric acid	7664-38-2	10.00 - 30.00
Nitric acid	7697-37-2	7.00 - 13.00
Alcohols, C12-16, ethoxylated	68551-12-2	0.50 - 1.50

SECTION 4 - FIRST AID MEASURES

Inhalation : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. Seek immediate medical attention/advice.

Skin contact : Remove contaminated clothing. Flush affected skin with gently flowing lukewarm water for at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before re-use. Seek immediate medical attention/advice. Leather and shoes that have been contaminated with the solution may need to be destroyed.

Eye contact : Immediately flush eyes thoroughly with running water for at least 20 to 30 minutes. Protect unharmed eye. Seek immediate medical attention/advice.

Ingestion : Do not induce vomiting. Have victim rinse mouth with water, then give one to two glasses of water to drink. Seek immediate medical attention/advice. Never give anything by mouth to an unconscious person.

Notes to physician : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability : Not flammable under normal conditions of use. However, following evaporation of water, residue may contain oxidizing material which can start or feed fires. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Contact with metals may release small amounts of flammable hydrogen gas.

Flammability classification (OSHA 29 CFR 1910.1200) : Not flammable.

Oxidizing properties : None expected. However, following evaporation of water, residue may contain oxidizing material which can start or feed fires. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.

Explosion data: Sensitivity to mechanical impact / static discharge : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media : Fires should be flooded with large amounts of water. Avoiding using other types of extinguishing materials, such as foam or dry chemicals. Some chemical extinguishing agents may react with this material.

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; Phosphorus compounds; nitrogen oxides (NOx); formaldehyde.

NFPA Rating :

0- Minimal	1- Slight	2- Moderate	3-Serious	4- Severe
Health: 3	Flammability: 0	Instability: 1	Special Hazards:	None

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. Individuals involved in the cleanup must wear appropriate personal protective equipment. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.



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SECTION 6 - ACCIDENTAL RELEASE MEASURES (CONT.)

Spill response/cleanup : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Dilute with water and neutralize with Sodium Carbonate (soda ash) or Sodium Bicarbonate (baking soda). Do not flush into surface water or sanitary sewer system. Notify the appropriate authorities as required.

Prohibited materials : None known.

Special spill response procedures : In case of a transportation accident, in the United States contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): Phosphoric acid (5000 lbs / 2270 kg);
Nitric acid (1000 lbs / 454 kg).

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from bases, metals and other incompatibles. Keep away from combustible material. Keep away from heat and flame. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Evaporate the residue under a fume hood.

Storage requirements : Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Store in corrosion-resistant containers. Corrosive materials should be stored in a separate safety storage cabinet or room. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.

Incompatible materials : Reducing agents; Oxidizing agents; Metals; Alkalies. Organic materials.

Special packaging materials : Corrosive to metals. Metal containers must be lined. Store in a metallic or coated, fibreboard drum using a strong polyethylene inner package.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits				
Ingredients	ACGIH TLV		OSHA PEL	
	TWA	STEL	PEL	STEL
Xylène	100 ppm	150 ppm	100 ppm	P/D
Phosphoric acid	1 mg/m ³	3 mg/m ³	1 mg/m ³	N/Av
Nitric acid	2 ppm	4 ppm	2 ppm	N/Av
Alcohols, C12-16, ethoxylated	N/Av	N/Av	N/Av	N/Av

Ventilation and engineering measures : Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Use self-contained breathing apparatus for entry into confined space or for other poorly ventilated areas. Advice should be sought from respiratory protection specialists.

Skin protection : Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

Eye / face protection : Chemical splash goggles must be worn when handling this material. A full face shield may also be necessary.

Other protective equipment : Complete suit protecting against chemicals. An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Contaminated work clothing should not be allowed out of the workplace. Keep working clothes separately.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Liquid.	Appearance :	Clear yellow liquid.
Odour :	Disagreeable odour (strong)	Odour threshold :	N/Av.
pH :	< 2		
Boiling point :	100°C (212°F)	Specific Gravity :	1.17
Melting/Freezing point :	N/Av.	Coefficient of water/oil distribution :	N/Av.
Vapour pressure (mmHg @ 20° C / 68° F) :	N/Av.	Solubility in water :	Soluble.
Vapour density (Air = 1) :	N/Av.	Evaporation rate (n-Butyl acetate = 1) :	N/Av.
Volatile organic Compounds (VOC's) :	N/Av.	Volatiles (% by weight) :	N/Av.
Flash point :	N/Av.		
Flash point Method :	N/Av.	Auto-ignition temperature :	N/Av.
Lower flammable limit (% by vol.) :	N/Av.	Upper flammable limit (% by vol.) :	N/Av.
Flame Projection Length :	N/Av.	Flashback observed :	N/Av.

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity :	Stable under the recommended storage and handling conditions prescribed. Contact with metals may release small amounts of flammable hydrogen gas. Highly corrosive in the presence of steel. Corrosive in the presence of copper, of zinc, of aluminum. Corrosive to ferrous metals and alloys. Contains oxidizers, which may increase the burning rate of combustible materials with flare-burning effect.
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 :	Incompatible materials (see Section 7).
Hazardous decomposition products :	None known, refer to hazardous combustion products in Section 5.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs :	Eyes, skin, respiratory system and digestive system.
Routes of exposure :	Inhalation: YES Skin Absorption: NO Skin & Eyes: YES Ingestion: YES.
Toxicological data :	See below for individual ingredient acute toxicity data.

Ingredients	LC ₅₀ (4hr) inh, rat	LD ₅₀	
		(Oral, rat)	(Rabbit, dermal)
Phosphoric acid	> 850 mg/m ³ / 1H	1530 mg/kg	2740 mg/kg
Nitric acid	N/Av	N/Av	N/Av
Alcohols, C12-16, ethoxylated	N/Av	N/Av	N/Av

Carcinogenic status :	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
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 :	Not available.
Sensitization to material :	Not expected to be a skin or respiratory sensitizer.
Synergistic materials :	Not available.
Irritancy :	Corrosive.
Other important hazards :	None known.
Conditions aggravated by overexposure :	Pre-existing skin, eye and respiratory disorders.



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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.

Mobility : No data is available on the product itself.

Persistence : No data is available on the product itself.

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 : See Section 7 (Handling and Storage) for further details.

Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14: TRANSPORT INFORMATION

Regulatory Number	UN Number	Proper Shipping Name	Class	Packing Group	Label
TDG	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Nitric acid)	8	II	
TDG Additional Information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				
49CFR/DOT	UN3264	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Phosphoric acid, Nitric acid)	8	II	
49CFR/DOT Additional Information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Refer to 49 CFR Section 173.154				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

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

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): Phosphoric acid (5000 lbs / 2270 kg); Nitric acid (1000 lbs / 454 kg).

SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: This product contains an Extremely Hazardous Substance under SARA Section 302. This product contains: Nitric acid.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

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SECTION 15 - REGULATORY INFORMATION (CONT.)

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: Nitric acid.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State “Right to Know” Lists: The following chemicals are specifically listed by individual States: Phosphoric acid (CA, MA, MN, NJ, PA, RI); Nitric acid (CA, MA, MN, NJ, PA, RI).

International Information:

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

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.

SECTION 16 - OTHER INFORMATION

HMIS Rating : *- Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe
Health: *3 Flammability: 0 Reactivity: 1

Legend : ACGIH : American Conference of Governmental Industrial Hygienists
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
EST: Eastern Standard Time
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
MA: Massachusetts
MN: Minnesota
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFPA: National Fire Protection Association
NIOSH: National Institute of Occupational Safety and Health
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values



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References

- TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System
1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009.
 2. International Agency for Research on Cancer Monographs, searched 2009.
 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2009 (Chempendium, HSDB and RTECs).
 4. Material Safety Data Sheet from manufacturer.
 5. California Proposition 65 List - September 11, 2009 version.

<p>Prepared for : Alliance Designer Products Inc. 225 Blvd. Bellerose West, Laval, QC, Canada, H7L 6A1 Phone: (450) 624-1611 Please direct all inquiries to Alliance Designer Products.</p>	
<p>Prepared by : ICC The Compliance Center Inc. Canada: 1-888-977-4834 USA: 1-888-442-9628 http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

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SECTION 16 - OTHER INFORMATION

MSDS Preparation Date (dd/mm/yyyy) : 07/01/2008
MSDS Reviewed Date (dd/mm/yyyy) : 05/04/12
Revision No. : 2
Revision Information : Sections 2 and 3, switched.
(M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
3. COMPOSITION/INFORMATION ON INGREDIENTS;
5. FIRE-FIGHTING MEASURES;
8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
9. PHYSICAL AND CHEMICAL PROPERTIES;
11. TOXICOLOGICAL INFORMATION;
12. ECOLOGICAL INFORMATION;
15. REGULATORY INFORMATION.

END OF DOCUMENT