



**GATOR CLEAN EFFLORESCENCE CLEANER (HIGH STRENGTH)
FOR CONCRETE PAVER, WETCAST & NATURAL STONES**

SDS Revision Date (dd/mm/yyyy): 07/08/2015

SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product name : Gator Clean Efflorescence Cleaner (High Strength)
Product code : N/A
Other means of identification : Mixture.

Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Acidic cleaning solution.
Supplier : Alliance Designer Products Inc.
225 Blvd Bellerose West
Laval, Quebec
Canada
H7L 6A1
www.alliancegator.com

24 hour Emergency Phone : Canada : 1-613-996-6666 (Canutec)
United States : 1-800-424-9300 (Chemtrec)

SECTION 2 - HAZARDS IDENTIFICATION

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : OXIDIZING LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements : Hazard pictograms



Signal word : Danger
Hazard statements : May intensify fire; oxidizer.
Causes severe skin burns and eye damage.

Precautionary statements

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Ingredient name	%	CAS number
nitric acid	≥10 - <25	7697-37-2
sulphamic acid	≥5 - <10	5329-14-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.



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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS (CONT.)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4 - FIRST AID MEASURES

DESCRIPTION OF NECESSARY FIRST AID MEASURES

Eye contact :	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation :	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact :	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion :	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

POTENTIAL ACUTE HEALTH EFFECTS

Eye contact :	Causes serious eye irritation.
Inhalation :	May cause respiratory irritation.
Skin contact :	Causes severe burns.
Ingestion :	Corrosive to the digestive tract. Causes burns.



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SECTION 4 - FIRST AID MEASURES (CONT.)

OVER-EXPOSURE SIGNS/SYMPTOMS

Eye contact: Adverse symptoms may include the following:
pain
watering
redness

Inhalation: No specific data.

Skin contact: Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion: Adverse symptoms may include the following:
stomach pains

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical :

Oxidizing material. May intensify fire. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products :

Decomposition products may include the following materials:
nitrogen oxides
sulfur oxides

Special protective actions for fire-fighters :

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate





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SECTION 5 - FIRE FIGHTING MEASURES (CONT.)

the area. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.

Special protective equipment for fire-fighters :

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For non-emergency personnel :

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders :

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions :

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Small spill :

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.

Large spill :

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.



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SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Protective measures :

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from clothing, incompatible materials and combustible materials. Keep away from alkalis. Keep away from heat. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene :

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities :

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

Occupational exposure limits

Ingredient name	Exposure limits
nitric acid	<p>ACGIH TLV (United States, 4/2014). TWA: 2 ppm 8 hours. TWA: 5.2 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>NIOSH REL (United States, 10/2013). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours. STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.</p> <p>OSHA PEL (United States, 2/2013). TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.</p>





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SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONT.)

Appropriate engineering controls : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls :

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

INDIVIDUAL PROTECTION MEASURES

Hygiene measures :

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection :

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

SKIN PROTECTION

Hand protection :

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection :

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection :

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection :

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.



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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state :	Liquid.
Colour :	Clear.Yellow.
Odour :	Not available.
pH :	1.9
Melting point :	Not available.
Boiling point :	100°C (212°F)
Flash point :	Not available.
Evaporation rate :	Not available.
Vapor pressure :	Not available.
Vapor density :	Not available.
Relative density :	1.146
Solubility in water :	Not available.
Viscosity :	Not available.
VOC :	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity :	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability :	The product is stable.
Possibility of hazardous reactions :	Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire
Conditions to avoid :	Drying on clothing or other combustible materials may cause fire.
Incompatible materials:	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis combustible materials reducing materials
Hazardous decomposition products :	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 - TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

Product/ingredient name	Result	Species	Dose	Exposure
nitric acid	LDLo Oral	Human	430 mg/kg	-
sulphamic acid	LD50 Oral	Guinea pig	1050 mg/kg	-
	LD50 Oral	Mouse	1312 mg/kg	-
	LD50 Oral	Rat	3160 mg/kg	-
	LD50 Oral	Rat	3160 mg/kg	-





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SECTION 11 - TOXICOLOGICAL INFORMATION (CONT.)

IRRITATION/CORROSION

Product/ingredient name	Result	Species	Score	Exposure
sulphamic acid	Eyes - Moderate irritant	Rabbit	-	20 milligrams
	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms
	Skin - Mild irritant	Human	-	120 hours 4 Percent
	Skin - Severe irritant	Rabbit	-	Intermittent 24 hours 500 milligrams

SENSITIZATION

Mutagenicity

Product/ingredient name	Experiment	Result
Not available.		

CARCINOGENICITY

Product/ingredient name	Result	Species	Dose	Exposure
Not available.				

REPRODUCTIVE TOXICITY

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Not available.						

TERATOGENICITY

Not available.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Not available.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

Name	Category	Route of exposure	Target organs
Not available.			

ASPIRATION HAZARD

Name	Result
Not available.	

POTENTIAL ACUTE HEALTH EFFECTS

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns.
- Ingestion** : Corrosive to the digestive tract. Causes burns.





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SECTION 11 - TOXICOLOGICAL INFORMATION (CONT.)

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

**DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC
EFFECTS FROM SHORT AND LONG TERM EXPOSURE**

SHORT TERM EXPOSURE

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

LONG TERM EXPOSURE

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

POTENTIAL CHRONIC HEALTH EFFECTS

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

Route	ATE value
Oral	39500 mg/kg



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SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY

Product/ingredient name	Result	Species	Exposure
nitric acid	Acute LC50 180000 µg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
	Acute LC50 72 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours
sulphamic acid	Acute LC50 14200 µg/l Fresh water	Fish - Pimephales promelas	96 hours

PERSISTENCE AND DEGRADABILITY

Not available.

BIOACCUMULATIVE POTENTIAL

Product/ingredient name	LogPow	BCF	Potential
nitric acid	-0.21	-	low
sulphamic acid	0.101	-	low

MOBILITY IN SOIL

Other adverse effects : No known significant effects or critical hazards.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14 - TRANSPORT INFORMATION

	DOT Classification	TDG Classification	IMDG	IATA
UN number	3264	3264	3264	3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, sulphamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, sulphamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, sulphamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, sulphamic acid)





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SECTION 14 - TRANSPORT INFORMATION (CONT.)

Transport hazard class (es)	8		8		8		8	
Packing group	II		II		II		II	
Environmental hazards	No.		No.		No.		No.	
Additional information	<p>Reportable quantity 5903.2 lbs / 2680 kg [617.8 gal / 2338.6 L] 10582.8 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.</p>							

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15 - REGULATORY INFORMATION

CALIFORNIA PROP. 65
Not available.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
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U.S. Federal regulations :

United States inventory (TSCA 8b) : All components are listed or exempted.
Clean Water Act (CWA) 311: nitric acid
Clean Air Act (CAA) 112 regulated toxic substances: nitric acid



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SECTION 15 - REGULATORY INFORMATION (CONT.)

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed
 Clean Air Act Section 602 Class I Substances :
 Clean Air Act Section 602 Class II Substances : Not listed
 DEA List I Chemicals (Precursor Chemicals) : Not listed
 DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
nitric acid	≥10 - <25	Yes.	1000	85.7	1000	85.7

SARA 304 RQ : 5903.2 lbs / 2680 kg [617.8 gal / 2338.6 L]

SARA 311/312

Classification : Fire hazard
 Immediate (acute) health hazard

COMPOSITION/INFORMATION ON INGREDIENTS

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
nitric acid	≥10 - <25	Yes	No	No	Yes	No
sulphamic acid	≥5 - <10	No	No	No	Yes	No

SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	nitric acid	7697-37-2	≥10 - <25
Supplier notification	nitric acid	7697-37-2	≥10 - <25

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.





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SECTION 15 - REGULATORY INFORMATION (CONT.)

STATE REGULATIONS

- Massachusetts : The following components are listed: NITRIC ACID
- New York : The following components are listed: Nitric acid
- New Jersey : The following components are listed: phosphoric acid; NITRIC ACID; SULPHAMIC ACID; SULFAMIC ACID
- Pennsylvania : The following components are listed: phosphoric acid; NITRIC ACID

INTERNATIONAL LISTS

NATIONAL INVENTORY

- Australia : All components are listed or exempted.
- Canada : All components are listed or exempted.
- Europe : All components are listed or exempted.

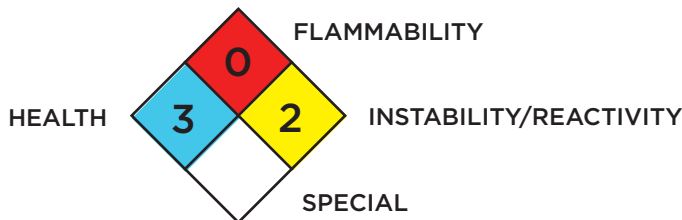
SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

HEALTH	*3
FLAMMABILITY	0
PHYSICAL HAZARDS	2

The customer is responsible for determining the PPE code for this material.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)



HISTORY

- Date of issue/Date of revision : 07/08/2015.
- Date of previous issue version : 06/07/2015.
- Version : 1
- References : Manufacturer's Material Safety Data Sheet. - Hawley, G.G.; The Condensed Chemical Dictionary, 11th edition. New York N.Y., Van Nostrand Reinold, 1987
SAX, N.I.; Dangerous Properties of Industrial Materials. Toronto, Van Nostrand Reinold, 6th edition, 1984.



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SECTION 16 -OTHER INFORMATION (CONT.)

NOTICE TO READER

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.