

SDS Revision Date (dd/mm/yyyy): 07/01/2019



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product name: Gator Clean Efflorescence Cleaner

Product code: C9610837100

Other means of identification: Liauid.

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

Identified uses: Acid cleaning solution.

Supplier: Alliance Designer Products Inc.

225 Blvd Bellerose West

Laval, Quebec, Canada H7L 6A1

www.alliancegator.com - Email: info@alliancegator.com

Canada: 1-450-624-1611

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).

DANGER





Classification of the

substance or mixture: ACUTE TOXICITY (inhalation) - Category 1

> SKIN CORROSION - Category 1 SERIOUS EYE DAMAGE - Category 1

Hazard statements: H330 - Fatal if inhaled..

H314 - Causes severe skin burns and eye damage.

Precautionary statements

General:

Prevention: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep

> away from heat. - No smoking. Keep away from clothing, incompatible materials and combustible materials. Take any precaution to avoid mixing with combustibles and

other incompatible materials. Wash hands thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable Response:

for breathing. Immediately call a POISON CENTER or physician. IF SWALLOW ED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON



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CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.

Storage: Store locked up.

Disposal: Dispose of contents and container in accordance with all local, regional, national and

international regulations.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture

Ingredient name	%	CAS number
nitric acid	13 - 30	7697-37-2
Sulfamic acid	7 - 13	5329-14-6

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

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

Inhalation:

Skin contact:

Ingestion:

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.

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.

Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and 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.

Get medical attention immediately. Call a poison center or physician. Wash out mouth

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SECTION 4 - FIRST AID MEASURES (CONT.)

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

Eve contact: Causes serious eye irritation.

Inhalation: Fatal if inhaled. Skin contact: Causes severe burns.

Ingestion: No known significant effects or critical hazards.

OVER-EXPOSURE SIGNS/SYMPTOMS

Adverse symptoms may include the following: Eye contact:

> 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





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

Unsuitable extinguishing media: None known.

Specific hazards arising

from the chemical: 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. No action shall be taken involving any personal risk or without suitable

training.

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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

nonemergency 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. Use spark-proof tools and

explosion-proof equipment. Dilute with water and mop up if water-soluble. Do not absorb in sawdust or other combustible material. It may lead to a fire risk when it dries out. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. 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,



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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.

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.

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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 locked up. Separate from alkalis. 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. See Section 10 for incompatible materials before handling or use.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS Occupational exposure limits Ingredient name **Exposure limits** nitric acid 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. 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. NIOSH REL (United States, 10/2016). TWA: 2 ppm 10 hours. TWA: 5 mg/m³ 10 hours.





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STEL: 4 ppm 15 minutes. STEL: 10 mg/m³ 15 minutes.

OSHA PEL (United States, 6/2016).

TWA: 2 ppm 8 hours. TWA: 5 mg/m³ 8 hours.

Sulfamic acid None.

Appropriate engineering controls: Use only with adequate ventilation. 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: Based on the hazard and potential for exposure, select a respirator that meets the



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appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Physical state: Liquid. Colour: Clear. Yellow. Not available. Odour: Not available. Odor threshold

: Ha 19

Not available. Melting point: Boiling point: 100°C (212°F) Flash point: Not available.

1 146 Relative density:

Not available. Viscosity:

SECTION 10 - STABILITY AND REACTIVITY

No specific test data related to reactivity available for this product or its ingredients. Reactivity:

Chemical stability: The product is stable.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following 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	LC50 Inhalation Vapor	Rat	130 mg/kg	4 hours
Sulfamic acid	LD50 Oral	Rat	3160 mg/kg	-

IRRITATION/CORROSION

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



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SENSITIZATION: No known significant effects or critical hazards.

MUTAGENICITY: No known significant effects or critical hazards. CARCINOGENICITY No known significant effects or critical hazards. REPRODUCTIVE TOXICITY No known significant effects or critical hazards. **TERATOGENICITY** No known significant effects or critical hazards.

SPECIFIC TARGET ORGAN

TOXICITY (SINGLE EXPOSURE) No known significant effects or critical hazards.

SPECIFIC TARGET ORGAN

TOXICITY (REPEATED EXPOSURE) No known significant effects or critical hazards. **ASPIRATION HAZARD** No known significant effects or critical hazards.

INFORMATION ON THE LIKELY

ROUTES OF EXPOSURE Routes of entry anticipated: Oral, Dermal, Inhalation.

POTENTIAL ACUTE HEALTH EFFECTS

Eve contact Causes serious eye damage.

Fatal if inhaled. Inhalation Causes severe burns. Skin contact

Ingestion No known significant effects or critical hazards.

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

Not available. Potential immediate effects Potential delayed effects Not available.

LONG TERM EXPOSURE

Potential immediate effects Not available. Not available. Potential delayed effects





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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.
No known significant effects or critical hazards.

NUMERICAL MEASURES OF TOXICITY

ACUTE TOXICITY ESTIMATES

Route	ATE value
Oral	3436 mg/kg
Inhalation (vapors)	0,1355 mg/l

SECTION 12 - ECOLOGICAL INFORMATION

TOXICITY

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

PERSISTENCE AND DEGRADABILITY

Not available.

BIOACCUMULATIVE POTENTIAL

Product/ingredient name	Log _{Pow}	BCF	Potential
nitric acid	-0.21	-	low
Sulfamic acid	0.101	-	low

MOBILITY IN SOIL

Soil/water partition

coefficient (K_{oc}) Not available

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





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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 - TRANPORT INFORMATION

DOT Classification	TDG Classification	Mexico Classification	n IMDG	IATA
UN3264	UN3264	UN3264	UN3264	UN3264
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)
8	8	8	8	8
II	II	II	II	II
No	No	No	No	No.
	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid)	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid) CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid) Sulfamic acid) II	UN3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid) UN3264 UN3264 UN3264 UN3264 UN3264 CORROSIVE LIQUID, ACIDIC, LIQUID, ACIDIC, INORGANIC, N.O.S. (nitric acid, Sulfamic acid) Sulfamic acid) Sulfamic acid) II	UN3264 INORGSIVE LIQUID, ACIDIC, INORGANIC, INORGANIC,

Additional Information

DOT Classification: Reportable quantity 6117,3 lbs / 2777,3 kg [640,2 gal / 2423,4 L]. Package sizes

shipped in quantities less than the product reportable quantity are not subject to the

RQ (reportable quantity) transportation requirements.

TDG Classification: Product classified as per the following sections of the Transportation of Dangerous

Goods Regulations: 2.40-2.42 (Class 8).

Explosive Limit and Limited Quantity Index 1

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

and the IBC Code

Not available.

SECTION 15 - REGULATORY INFORMATION

Canada

Canadian NPRI: The following components are listed: Nitric acid

CEPA Toxic substances: None of the components are listed.





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United States

U.S. Federal regulations: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: nitric acid

Clean Air Act (CAA) 112 regulated toxic substances: nitric acid

Clean Air Act Section 112: Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602: Not listed

Class I Substances

Clean Air Act Section 602: Not listed

Class II Substances

DEA List I Chemicals: Not listed

(Precursor Chemicals)

DEA List II Chemicals: Not Listed

(Essential Chemicals)

CALIFORNIA PROP. 65

This product does not require a Safe Harbor warning under California Prop. 65.

INVENTORY LIST

CanadaNot determined.ChinaNot determined.EuropeNot determined.United StatesNot determined.

SECTION 16 - OTHER INFORMATION

PROCEDURE USED TO DERIVE THE CLASSIFICATION

Classification	Justification
ACUTE TOXICITY (inhalation) - Category 1	Calculation method
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data

HISTORY

Date of issue/Date of revision:07-01-2019Date of previous issue version:07-01-2019Version:0.02

Key to abbreviations : ATE = Acute Toxicity Estimate

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BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References : Not available.

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.