SAFETY DATA SHEET



Paver Prep

Section 1. Identification

Product identifier: Paver PrepProduct code: Not available.Other means of: Not available.

identification

.. ..

Product type : Liquid.

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

Product use : Dissolves efflorescence (whitish salt) and removes ground-in dirt (traffic marks, etc.)

on pavers, slabs and retaining walls made of concrete.

Area of application : Consumer applications, Professional applications.

Supplier/Manufacturer : Techniseal

300, avenue Liberté

Candiac, QC, Canada, J5R 6X1

Tel: (514) 523-2110 Toll free: 1-800-465-7325 Fax: (450) 633-3035

e-mail address of person responsible for this SDS

: service@techniseal.com

Emergency telephone number (with hours of

operation)

: CANUTEC (613) 996-6666

Section 2. Hazard identification

Classification of the : H314 SKIN CORROSION - Category 1 substance or mixture H318 SERIOUS EYE DAMAGE - Category 1

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED

EXPOSURE) (teeth) - Category 2

Health Hazards Not Otherwise Classified - Category 1

GHS label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : No Code(s) - Causes severe digestive tract burns.

H314 - Causes severe skin burns and eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

(teeth)

Precautionary statements

General : P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Date of issue/Date of revision: 24/04/2018Date of previous issue: No previous validationVersion: 1

Paver Prep

Section 2. Hazard identification

Prevention

: P280 - Wear protective gloves: > 8 hours (breakthrough time): Recommended: Nitrile gloves.. Wear protective clothing: Recommended: Synthetic apron.. Wear eye or face protection: Recommended: Face shield..

P260 - Do not breathe vapor.

P264 - Wash hands thoroughly after handling.

Response

: P314 - Get medical attention if you feel unwell.

P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON

CENTER or physician. Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before

reuse. Immediately call a POISON CENTER or physician.

P305 + P351 + P338 + P310 - 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

: P405 - Store locked up.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Do not taste or swallow. Wash thoroughly after handling.

Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 13.4% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 23.

Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 23.6%

Section 3. Composition/information on ingredients

Substance/mixture
Other means of
identification

: Mixture: Not available.

Ingredient name	% (w/w)	CAS number
nitric acid sulphamidic acid	\ /	7697-37-2 5329-14-6

⁽¹⁾ The actual concentration or actual concentration range is withheld as a trade secret.

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.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version : 1 2/12

Section 4. First-aid measures

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. 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.

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 damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion: Severely corrosive to the digestive tract. Causes severe burns.

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.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version : 1 3/12

Section 4. First-aid measures

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

: Do not use water jet.

sulfur oxides

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

Evolves toxic fumes when heated to decomposition.

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. 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 specialized 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. Dispose of via a licensed waste disposal contractor.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version:1 4/12

Section 6. Accidental release measures

Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, 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.

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 alkalis. 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.

including any incompatibilities

Conditions for safe storage, : Do not store below the following temperature: 16°C (60.8°F). 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/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
nitric acid	CA Alberta Provincial (Canada, 4/2009).
	15 min OEL: 4 ppm 15 minutes.
	15 min OEL: 10 mg/m³ 15 minutes.
	8 hrs OEL: 2 ppm 8 hours.
	8 hrs OEL: 5.2 mg/m³ 8 hours.
	CA British Columbia Provincial (Canada,
	6/2017).
	TWA: 2 ppm 8 hours.
	STEL: 4 ppm 15 minutes.
	CA Ontario Provincial (Canada, 7/2015).
	TWA: 2 ppm 8 hours.
	STEL: 4 ppm 15 minutes.
	CA Quebec Provincial (Canada, 1/2014).
	TWAEV: 2 ppm 8 hours.
	TWAEV: 5.2 mg/m³ 8 hours.
	STEV: 4 ppm 15 minutes.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version: 1

Section 8. Exposure controls/personal protection

STEV: 10 mg/m³ 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013).

STEL: 4 ppm 15 minutes. TWA: 2 ppm 8 hours.

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. Recommended: Face shield.

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. > 8 hours (breakthrough time): Recommended: Nitrile gloves.

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. Recommended: Synthetic apron.

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 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.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version : 1 6/12

Section 9. Physical and chemical properties

Appearance

Physical state : Liquid.

Color : Yellow.

Odor : Lemon-like.

Odor threshold : Not available.

pH : <1

Melting point : <-30°C (<-22°F)

Boiling point : 100°C (212°F)

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not applicable.

Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : Not available.

Density : 1.13 to 1.15 g/cm³

Solubility : Easily soluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Flow time (ISO 2431) : 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

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

occur.

Conditions to avoid : Avoid contamination by any source including metals, dust and organic materials.

Avoid contact with combustible materials (wood, paper, oil, clothing etc.). 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: reducing materials,

combustible materials, organic materials, metals and alkalis. Metallic powder. Cyanides. Sulfides. Alcohols. Carbides.

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Date of issue/Date of revision: 24/04/2018Date of previous issue: No previous validationVersion: 17/12

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sulphamidic acid	LD50 Oral	Rat	3160 mg/kg	-

Conclusion/Summary

: Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
sulphamidic acid	Eyes - Moderate irritant Eyes - Severe irritant Skin - Severe irritant	Rabbit Rabbit Rabbit	-	20 milligrams 24 hours 250 Micrograms 24 hours 500	-
				milligrams	

Conclusion/Summary

Skin: Not available.Eyes: Not available.Respiratory: Not available.

Sensitization

Conclusion/Summary

Skin : Not available.

Respiratory : Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	3.5	Route of exposure	Target organs
nitric acid	Category 2	Not determined	teeth

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns.

Ingestion : Severely corrosive to the digestive tract. Causes severe burns.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version : 1 8/12

Section 11. Toxicological information

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 : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Conclusion/Summary: Not available.

General: May cause damage to organs through prolonged or repeated exposure.

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	26836.9 mg/kg

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
sulphamidic acid	Acute LC50 72 ppm Fresh water Acute LC50 14200 µg/l Fresh water	Fish - Gambusia affinis - Adult Fish - Pimephales promelas	96 hours 96 hours

Conclusion/Summary: Not available.

Date of issue/Date of revision: 24/04/2018Date of previous issue: No previous validationVersion: 19/12

Paver Prep

Section 12. Ecological information

Persistence and degradability

Conclusion/Summary: Not available.

Bioaccumulative potential

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

Mobility in soil

Soil/water partition coefficient (Koc)

: 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 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

	TDG Classification	DOT Classification	ADR/RID	IMDG	IATA
UN number	UN3264	UN3264	UN3264	UN3264	UN3264
UN proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O. S. (nitric acid, sulphamidic acid)	Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid, sulphamidic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N. O.S. (nitric acid, sulphamidic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N. O.S. (nitric acid, sulphamidic acid)	Corrosive liquid, acidic, inorganic, n.o.s. (nitric acid, sulphamidic acid)
Transport hazard class(es)	8	8	8	8	8
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.

Additional information

Date of issue/Date of revision: 24/04/2018Date of previous issue: No previous validationVersion: 1

Paver Prep

Section 14. Transport information

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 Passenger Carrying Road or Rail Index 1

Special provisions 16

Remarks Limited Quantity Exemption: Quantity < 500 kg.

DOT Classification : Limited quantity Yes.

> Packaging instruction Exceptions: 154. Non-bulk: 202. Bulk: 242. Quantity limitation Passenger aircraft/rail: 1 L. Cargo aircraft: 30 L.

Special provisions 386, B2, IB2, T11, TP2, TP27

ADR/RID : Hazard identification number 80

> **Limited quantity** 1 L **Special provisions** 274 Tunnel code (E)

IMDG : Emergency schedules F-A, S-B

Special provisions 274

IATA Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851.

Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities -

Passenger Aircraft: 0.5 L. Packaging instructions: Y840.

Special provisions A3, A803

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: Not available.

to Annex II of MARPOL and

the IBC Code

Section 15. Regulatory information

Canadian lists

Canadian NPRI : The following components are listed: Nitric acid

CEPA Toxic substances : None of the components are listed.

Canada inventory : Not determined.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Date of issue/Date of revision : 24/04/2018 Date of previous issue : No previous validation Version:1 11/12

Section 16. Other information

History

Date of issue/Date of

Date of previous issue

revision

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Version :

Prepared by : Sphera Solutions

Key to abbreviations : ATE = Acute Toxicity Estimate 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

HPR = Hazardous Products Regulations

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION - Category 1	On basis of test data
SERIOUS EYE DAMAGE - Category 1	On basis of test data
SPECIFIC TARGET ORGAN TOXICITY (REPEATED	Calculation method
EXPOSURE) (teeth) - Category 2	
Health Hazards Not Otherwise Classified - Category 1	Calculation method

References : HPR = Hazardous Products Regulations

✓ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

Date of issue/Date of revision: 24/04/2018Date of previous issue: No previous validationVersion: 112/12