

# Material Safety Data Sheet



## DG Dirt and Grease Cleaner for Pavers and Slabs

### 1. Product and company identification

<b>Product name</b>	: Dirt and Grease Cleaner for pavers and slabs
<b>Material uses</b>	: Use available for removing motor oil and grease (barbecue) stains from concrete or natural stone pavers and slabs.
<b>Supplier/Manufacturer</b>	: Techniseal 300, avenue Liberté Candiac, QC, Canada, J5R 6X1 Tel: (514) 523-2110 Toll free: 1-800-465-7325 Fax: (450) 633-3035
<b>Validation date</b>	: 09/30/2008
<b>Responsible name</b>	: Atrion Regulatory Services, Inc.
<b>In case of emergency</b>	: CANUTEC (613) 996-6666

### 2. Hazards identification

<b>Physical state</b>	: Liquid.
<b>Odor</b>	: Pine.
<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Emergency overview</b>	: DANGER! CAUSES EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED. Do not breathe vapor or mist. Do not ingest. Do not get in eyes or on skin or clothing. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
<b>Potential acute health effects</b>	
<b>Inhalation</b>	: May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
<b>Ingestion</b>	: May cause burns to mouth, throat and stomach. May be harmful if swallowed.
<b>Skin</b>	: Corrosive to the skin. Causes burns.
<b>Eyes</b>	: Corrosive to eyes. Causes burns.
<b>Potential chronic health effects</b>	
<b>Chronic effects</b>	: No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: No known significant effects or critical hazards.
<b>Mutagenicity</b>	: No known significant effects or critical hazards.
<b>Teratogenicity</b>	: No known significant effects or critical hazards.
<b>Developmental effects</b>	: No known significant effects or critical hazards.
<b>Fertility effects</b>	: No known significant effects or critical hazards.
<b>Over-exposure signs/symptoms</b>	
<b>Inhalation</b>	: No specific data.
<b>Ingestion</b>	: Adverse symptoms may include the following: stomach pains
<b>Skin</b>	: Adverse symptoms may include the following: pain or irritation redness blistering may occur

## 2 . Hazards identification

**Eyes** : Adverse symptoms may include the following:  
 pain  
 watering  
 redness

**Medical conditions aggravated by over-exposure** : None known.

See toxicological information (section 11)

## 3 . Composition/information on ingredients

### United States

Name	CAS number	%
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Trisodium Phosphate	7601-54-9	1 - 5
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	1 - 5
Sodium metasilicate	13517-24-3	1 - 5

### Canada

Name	CAS number	%
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Trisodium Phosphate	7601-54-9	1 - 5
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	1 - 5
Sodium metasilicate	13517-24-3	1 - 5

**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.**

## 4 . First aid measures

- Eye contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention immediately.
- Skin contact** : In case of contact, immediately flush skin with plenty of water for at least 20 minutes. Get medical attention immediately.
- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- Ingestion** : Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- 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.
- Notes to physician** : No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## 5 . Fire-fighting measures

- Flammability of the product** : Not flammable.
- Extinguishing media**
- Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
  - Not suitable** : None known.
- Special exposure hazards** : 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.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
sulfur oxides  
phosphorus oxides  
metal oxide/oxides
- 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.

## 6 . Accidental release measures

- Personal precautions** : 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 (see section 8).
- 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 for cleaning up**
- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or 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. 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). 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.

## 7 . Handling and storage

- Handling** : Put on appropriate personal protective equipment (see section 8). 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. 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 acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Storage** : 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. Separate from acids. 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.

## 8 . Exposure controls/personal protection

### United States

**Product name**

Trisodium Phosphate

**Exposure limits**

**AIHA WEEL (United States, 1/2008).**  
STEL: 5 mg/m<sup>3</sup> 15 minute(s).

### Canada

**Product name**

Trisodium Phosphate

**Exposure limits**

**AIHA WEEL (United States, 1/2008).**  
STEL: 5 mg/m<sup>3</sup> 15 minute(s).

**Consult local authorities for acceptable exposure limits.**

**Recommended monitoring procedures**

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

**Engineering measures**

: 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.

**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.

**Personal protection**

**Eyes**

: Face shield.

**Skin**

: Synthetic apron.

**Respiratory**

: Use a properly fitted, air-purifying or supplied air 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.

**Hands**

: Nitrile gloves.

**Personal protective equipment (Pictograms)**



**HMIS Code/Personal protective equipment**

: D

**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.

## 9 . Physical and chemical properties

**Physical state**

: Liquid.

**Color**

: Green.

**Odor**

: Pine.

**pH**

: 13.5

**Melting/freezing point**

: -2°C (28.4°F)

**Specific gravity**

: 1.054 g/mL

**Viscosity**

: Dynamic: 20 mPa·s (20 cP)

## 9 . Physical and chemical properties

**Solubility** : Miscible in water.

## 10 . Stability and reactivity

**Stability** : The product is stable.

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

**Conditions to avoid** : No specific data.

**Materials to avoid** : Reactive or incompatible with the following materials: oxidizing materials, metals and acids.

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

## 11 . Toxicological information

### Acute toxicity

Product/ingredient name	Species	Dose	Result	Exposure
Alcohols, C9-11, ethoxylated	Rabbit	>2 g/kg	LD50 Dermal	-
	Rat	1378 mg/kg	LD50 Oral	-
Trisodium Phosphate	Rabbit	>300 mg/kg	LD Dermal	-

**Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

**Ingestion** : May cause burns to mouth, throat and stomach. May be harmful if swallowed.

**Skin** : Corrosive to the skin. Causes burns.

**Eyes** : Corrosive to eyes. Causes burns.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Species	Exposure	Result
Alcohols, C9-11, ethoxylated	Daphnia	48 hours	Acute EC50 5.36 to 6.25 mg/L
	Daphnia	48 hours	Acute EC50 5300 to 8500 ug/L
	Daphnia	48 hours	Acute EC50 12000 to 18000 ug/L
	Fish	96 hours	Acute LC50 11000 to 17000 ug/L
	Fish	96 hours	Acute LC50 8500 to 12000 ug/L
	Trisodium Phosphate	Fish	96 hours
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	Fish	96 hours	Acute LC50 28500 ug/L
	Daphnia	48 hours	Acute EC50 4.53 to 4.95 mg/L

### Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Alcohols, C9-11, ethoxylated	-	>60 % - Readily - 28 days	-	-

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 13 . Disposal considerations

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

## 14 . Transport information

### Regulatory information

DOT/ TDG / IMDG/ IATA : Not regulated.

## 15 . Regulatory information

### United States

**HCS Classification** : Corrosive material

**U.S. Federal regulations** : **United States inventory (TSCA 8b)**: All components are listed or exempted.  
TSCA 8(d) H and S data reporting: 1-propoxypropan-2-ol: 1994

**SARA 302/304/311/312 extremely hazardous substances**: No products were found.

**SARA 302/304 emergency planning and notification**: No products were found.

**SARA 302/304/311/312 hazardous chemicals**: Trisodium Phosphate

**SARA 311/312 MSDS distribution - chemical inventory - hazard identification**

Trisodium Phosphate: Delayed (chronic) health hazard

**Clean Water Act (CWA) 307**: No products were found.

**Clean Water Act (CWA) 311**: Trisodium Phosphate; Sodium hydroxide

**Clean Air Act (CAA) 112 accidental release prevention** No products were found.

**Clean Air Act (CAA) 112 regulated flammable substances** No products were found.

**Clean Air Act (CAA) 112 regulated toxic substances** No products were found.

**State regulations** :

- Connecticut Carcinogen Reporting**: None of the components are listed.
- Connecticut Hazardous Material Survey**: None of the components are listed.
- Florida substances**: None of the components are listed.
- Illinois Chemical Safety Act**: None of the components are listed.
- Illinois Toxic Substances Disclosure to Employee Act**: None of the components are listed.
- Louisiana Reporting**: None of the components are listed.
- Louisiana Spill**: None of the components are listed.
- Massachusetts Spill**: None of the components are listed.
- Massachusetts Substances**: None of the components are listed.
- Michigan Critical Material**: None of the components are listed.
- Minnesota Hazardous Substances**: None of the components are listed.
- New Jersey Hazardous Substances**: The following components are listed: Trisodium Phosphate
- New Jersey Spill**: None of the components are listed.
- New Jersey Toxic Catastrophe Prevention Act**: None of the components are listed.
- New York Acutely Hazardous Substances**: The following components are listed:  
Trisodium Phosphate
- New York Toxic Chemical Release Reporting**: None of the components are listed.
- Pennsylvania RTK Hazardous Substances**: The following components are listed:  
Trisodium Phosphate
- Rhode Island Hazardous Substances**: None of the components are listed.

**California Prop. 65** : No products were found.

### Canada

**WHMIS (Canada)** : Class E: Corrosive material



## 15 . Regulatory information

- Canadian lists** : CEPA Toxic substances: None of the components are listed.  
 Canadian ARET: None of the components are listed.  
 Canadian NPRI: None of the components are listed.  
 Alberta Designated Substances: None of the components are listed.  
 Ontario Designated Substances: None of the components are listed.  
 Quebec Designated Substances: None of the components are listed.
- Canada inventory** : All components are listed or exempted.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### International regulations

- International lists** : This product, (and its ingredients) is (are) listed on national inventories, or is (are) exempted from being listed, in Australia (AICS), in Europe (EINECS/ELINCS), in Korea (TCCL), in Japan (METI), in the Philippines (RA6969).

## 16 . Other information

- Label requirements** : CAUSES EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED.

### Hazardous Material Information System (U.S.A.)

Health	3
Fire hazard	0
Physical Hazard	0
Personal protection	D

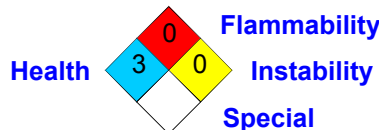
### HAZARD RATINGS

- 4- Extreme
- 3- Serious
- 2- Moderate
- 1- Slight
- 0- Minimal

See section 8 for more detailed information on personal protection.

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

### National Fire Protection Association (U.S.A.)



- References** : ANSI Z400.1, MSDS Standard, 2004. - Manufacturer's Material Safety Data Sheet. - 29CFR Part1910.1200 OSHA MSDS Requirements. - 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. - Canada Gazette Part II, Vol. 122, No. 2. Registration SOR/88-64, 31 December 1987. Hazardous Products Act "Ingredient Disclosure List" - Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2005.

- Date of issue** : 09/30/2008  
**Version** : 1

### 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.