



Safety Data Sheet Tunnel Cleaner

SECTION 1: Identification

Product identifier

Product name Tunnel Cleaner
Product number 6237

Recommended use of the chemical and restrictions on use

Cleaning automated car wash tunnels

Supplier's details

Name Ardex
Address 2050 Byberry rd
Philadelphia, pa 19116
united states of America

Telephone 2156980500
email info@ardexlabs.com

Emergency phone number(s)

800-424-9300
CHEMTREC – TOLL FREE 24 HOUR EMERGENCY TELEPHONE
NUMBER

SECTION 2: Hazard identification

Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Acute toxicity, inhalation (chapter 3.1), Cat. 4
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 1B

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

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| | |
|------|---|
| H302 | Harmful if swallowed |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |

Precautionary statement(s)

Prevention

| | |
|------|--|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash ... thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |

Response

| | |
|----------------|---|
| P301+P312 | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell, |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER/doctor |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P330 | Rinse mouth. |
| P363 | Wash contaminated clothing before reuse. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container to state, local, and federal regulations. |

SECTION 3: Composition/information on ingredients

Substances

Hazardous components

| Component | Concentration |
|---|-----------------|
| Phosphoric acid liquid (CAS no.: 7664-38-2; EC no.: 231-633-2; Index no.: 015-011-00-6) | < 50 % (Volume) |
| ETHYLENE GLYCOL MONOBUTYL ETHER (CAS no.: 111-76-2; EC no.: 203-905-0; Index no.: 603-014-00-0) | < 5 % (Volume) |
| Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate (CAS no.: 10378-23-1) | < 5 % (Volume) |
| NP-9 (CAS no.: 9016-45-9) | < 5 % (Volume) |

SECTION 4: First-aid measures

Description of necessary first-aid measures

| | |
|----------------|--|
| General advice | Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible). |
| If inhaled | Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. 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. |

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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.

In case of skin contact

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

In case of 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 20 minutes. Chemical burns must be treated promptly by a physician.

If swallowed

Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician. If vomiting occurs, keep head low so that stomach content does not enter lungs.

Personal protective equipment for first-aid responders

Wear all applicable PPE

Most important symptoms/effects, acute and delayed

General: Symptoms of chemical burns may be delayed. Keep victim under observation

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

Skin Contact: Causes severe burns.

Eye Contact: Causes serious eye damage

Ingestion: Toxic if swallowed. May cause burns to mouth, throat, and stomach.

Chronic Symptoms: None expected under normal conditions of use.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

Specific hazards arising from the chemical

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Special protective actions for fire-fighters

Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.

Further information

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Carbon dioxide, carbon monoxide, sulfur oxides, phosphorous oxides, halogenated compounds

SECTION 6: Accidental release measures

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Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions for safe storage, including any incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizers.

Specific end use(s)

Cleaning agent for automatic car wash tunnels

SECTION 8: Exposure controls/personal protection

Control parameters

1. Phosphoric acid (CAS: 7664-38-2)

PEL (Inhalation): 1 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Phosphoric acid (CAS: 7664-38-2)

PEL (Inhalation): 1 mg/m³, (ST) 3 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

3. Phosphoric acid (CAS: 7664-38-2)

REL (Inhalation): 1 mg/m³, (ST) 3 mg/m³ (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

4. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

5. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 240 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. 2-Butoxyethanol (CAS: 111-76-2)

PEL (Inhalation): 20 ppm (Cal/OSHA)

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OSHA Annotated Table Z-1, www.osha.gov

7. 2-Butoxyethanol (CAS: 111-76-2)

REL (Inhalation): 5 ppm (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

8. Poly(ethylene oxide)

TWA: 10 mg/m³; US WEEL

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Environmental exposure controls

Do not allow the product to be released into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

| | |
|---|--------------------------------|
| Appearance/form | Clear liquid |
| Odor | Neutral |
| Odor threshold | |
| pH | |
| Melting point/freezing point | -9 DEG. C (26 DEG. F) |
| Initial boiling point and boiling range | 105-110 DEG C (221-230 DEG. F) |
| Flash point | |
| Evaporation rate | |
| Flammability (solid, gas) | |
| Upper/lower flammability limits | |
| Vapor pressure | 17.1 (@20c) |
| Vapor density | |
| Relative density | |
| Solubility(ies) | MISCIBLE |
| Partition coefficient: n-octanol/water | |

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Auto-ignition temperature
Decomposition temperature
Viscosity
Explosive properties
Oxidizing properties

SECTION 10: Stability and reactivity

Reactivity

None under normal use conditions.

Chemical stability

Stable under recommended storage conditions. (See section 7)

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

Hazardous decomposition products

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

NP-9

LD50 Oral - Rat - 960-3980 mg/kg

Remarks: Typical for this family of materials

Ethylenediamine Tetraacetic Acid, Tetrasodium Salt Dihydrate

LD50 Oral - Rat - 603-1260 mg/kg

Skin corrosion/irritation

NP-9

LD50 Skin - Rabbit - 2000-2991 mg/kg

Remarks: Prolonged skin contact is unlikely to result in absorption of harmful amounts

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

NP-9

Prolonged excessive exposure to mist may cause serious adverse effects, even death. Vapor may cause irritation of the upper respiratory tract (nose and throat).

Typical for this family of materials.

LC50, Rat, 4 Hour, dust/mist, 1.15 mg/l

Germ cell mutagenicity

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No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

NP-9

For this family of materials:

In animals, effects have been reported on the following organs:

Kidney.

Liver.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

No data available.

Persistence and degradability

NP-9

- 2.15-2.25 mg/kg Theoretical Oxygen Demand - 28days

NP-9

- 2.09-2.25 mg/kg Chemical Oxygen Demand - 28days

NP-9

- Partition coefficient: n-octanol/water(log Pow): 2.1 - 3.4 Calculated.

NP-9

- Bioconcentration factor (BCF): 5.9 - 48 Fish. Estimated.

Other adverse effects

NP-9

LC50 - Daphnia magna (water flea) - 9.3-21.4 mg/l - 48hr

Remarks: For this family of materials

NP-9

LC50 - Pimephales promelas (fathead minnow) - 3.8-6.2 mg/l - 96hr

Remarks: For this family of materials

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NP-9
- 2.15-2.25 mg/kg Theoretical Oxygen Demand - 28days

NP-9
- 2.09-2.25 mg/kg Chemical Oxygen Demand - 28days

Phosphoric acid liquid
LC50 - Pisces - 138mg/l - 96hr
Remarks: (pure substance)

Phosphoric acid liquid
LC50 - Protozoa - 100-1000 - 96hr
Remarks: (pure substance)

Phosphoric acid liquid
TLM - Gambusia affinis - 138ppm - 24hr
Remarks: (pure substance)

SECTION 13: Disposal considerations

Disposal of the product

Dispose of this product in accordance with local, state, and federal regulations.

Disposal of contaminated packaging

Do not reuse packaging.

Waste treatment

No data available.

Sewage disposal

No data available.

Other disposal recommendations

No data available.

SECTION 14: Transport information

DOT (US)

UN Number: 1805

Class: 8

Packing Group: III

Proper Shipping Name: Phosphoric Acid Solution

DOT Special Provisions (49 CFR 172.102):

A7 - Steel packagings must be corrosion-resistant or have protection against corrosion. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / (1 + a (tr - tf))$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

SECTION 15: Regulatory information

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Safety, health and environmental regulations specific for the product in question

Massachusetts Right To Know Components

Chemical name: Phosphoric acid

CAS number: 7664-38-2

New Jersey Right To Know Components

Common name: PHOSPHORIC ACID

CAS number: 7664-38-2

Common name: 2-BUTOXY ETHANOL

CAS number: 111-76-2

Pennsylvania Right To Know Components

Chemical name: Ethanol, 2-butoxy-

CAS number: 111-76-2

SARA 311/312 Hazards

Accute health hazard.

SECTION 16: Other information

Revision Date:

03/17/2016

Other Information:

This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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