

FLASH 21A

SECTION 1. IDENTIFICATION

Product Identifier FLASH 21A
Product Family Phosphate Ester
Recommended Use Hydrocarbon gelling agent.
Manufacturer Perimeter Solutions Canada Ltd., 3060 Airport Road , Kamloops , British Columbia, V2B 7X2, 250-554-3530
Emergency Phone No. CANUTEC, 613-996-6666 or *666 on a cellular phone (Canada Only), 24 Hours / Day

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin corrosion - Category 1A; Serious eye damage - Category 1

Label Elements



Signal Word:

Danger

Hazard Statement(s):

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

Precautionary Statement(s):

Prevention:

P264 Wash hands and skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

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 CENTRE or doctor.

P363 Wash contaminated clothing before reuse.

Storage:

P405 Store locked up.

Disposal:

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

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Phosphoric acid, mixed decyl and Et and octyl esters	68412-60-2	60 - 100		
1-Octanol	111-87-5	5 - 10		
n-Decyl alcohol	112-30-1	3 - 7		
Phosphoric acid solutions	7664-38-2	0.1 - 1		

Notes

Concentrations are expressed in % weight/weight.

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Poisons Information Centre: 13 11 26. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention if respiratory irritation or distress continues.

Skin Contact

Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse skin with lukewarm, gently flowing water for at least 30 minutes. Seek medical attention if irritation develops or persists.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for at least 30 minutes, while holding the eyelid(s) open. Seek medical attention if irritation develops or persists.

Ingestion

Rinse mouth with water. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Seek medical attention.

Most Important Symptoms and Effects, Acute and Delayed

If on skin:

Repeated or prolonged exposure can irritate or burn the skin.

If in eyes:

May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

If swallowed:

Can burn the lips, tongue, throat and stomach.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Unsuitable Extinguishing Media

Water Jet.

Specific Hazards Arising from the Product

Will Burn

Containers may explode (due to the build-up of pressure) when exposed to extreme heat.

Special Protective Equipment and Precautions 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.

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Stop or reduce leak if safe to do so. Contain and soak up spill with absorbent that does not react with spilled product. After cleaning, flush away traces with water. Collect washing for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid generating vapours or mists. Wear personal protective equipment to avoid direct contact with this chemical.

Conditions for Safe Storage

Store in tightly closed containers. Store in an area that is: dry well-ventilated, separate from incompatible materials (see Section 10: Stability and Reactivity). Away from ignition sources.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV®		OSHA PEL		AIHA WEEL	
	TWA	STEL	TWA	Ceiling	8-hr TWA	TWA
Phosphoric acid, mixed decyl and Et and octyl esters	Not established	Not established	Not established	Not established	Not established	Not established
n-Decyl alcohol	Not established	Not established	Not established	Not established	Not established	Not established
1-Octanol	Not established	Not established	Not established	Not established	50 ppm	Not established
Phosphoric acid solutions	1 mg/m ³	3 mg/m ³	1 mg/m ³	Not established	Not established	Not established

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

Individual Protection Measures

Eye/Face Protection

Do not get in eyes. Eye contact should be prevented through use of chemical safety glasses with side shields or splash proof goggles.

Skin Protection

Skin contact should be minimized through use of gloves and suitable long sleeved clothing (i.e., shirt and pants, coveralls) chemically resistant gloves should be used. Consideration must be given both to durability as well as permeation resistance.

Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an organic vapour cartridge. When airborne concentrations are excessive.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance Yellow liquid.

Odour Odourless

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Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	Not available (melting); -10 °C (14 °F) (freezing)
Initial Boiling Point/Range	111.61 - 237.22 °C (232.90 - 459.00 °F)
Flash Point	> 93.3 °C (199.9 °F) (closed cup)
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	1.03 at 25 °C (77 °F)
Solubility	Insoluble in water
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available (kinematic)
Other Information	
Physical State	Liquid

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Conditions to Avoid

Heat. High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials

Strong bases (e.g. sodium hydroxide).
 Strong oxidizing agents (e.g. perchloric acid).
 Strong reducing agents (e.g. hydrides).

Hazardous Decomposition Products

Oxides of Carbon
 Oxides of Phosphorus.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Phosphoric acid, mixed decyl and Et and octyl esters	Not available	Not available	Not available
n-Decyl alcohol	2000 mg/m ³ (mouse) (4-hour exposure)	12800 mg/kg (rat)	3000 mg/kg (rabbit)
1-Octanol	Not available	> 5000 mg/kg (rat)	> 5000 mg/kg (rat)
Phosphoric acid solutions	> 850 mg/m ³ (rat) (1-hour exposure)	1250 mg/kg (rat)	2740 mg/kg (rabbit)

Skin Corrosion/Irritation

CORROSIVE. Repeated or prolonged exposure can irritate or burn the skin. Low acute dermal toxicity.

Serious Eye Damage/Irritation

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CORROSIVE. May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Harmful. Mists may cause significant lung irritation. Can cause serious damage to lung tissue and respiratory tract.

Ingestion

Harmful. Can burn the lips, tongue, throat and stomach.

Aspiration Hazard

No information was located.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information was located.

Respiratory and/or Skin Sensitization

Not known to be a respiratory sensitizer. Not known to be a skin sensitizer.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Phosphoric acid, mixed decyl and Et and octyl esters	Not Listed	Not designated	Not Listed	Not Listed
n-Decyl alcohol	Not Listed	Not designated	Not Listed	Not Listed
1-Octanol	Not Listed	Not designated	Not Listed	Not Listed
Phosphoric acid solutions	Not Listed	Not designated	Not Listed	Not Listed

Not specifically listed.

Reproductive Toxicity

Development of Offspring

No information was located.

Sexual Function and Fertility

No information was located.

Germ Cell Mutagenicity

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Environmental information was not located.

Ecotoxicity

No information was located.

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

Studies are not available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

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SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	UN3265	Corrosive Liquid, Acidic, Organic, N.O.S. (Phosphoric acid, mixed decyl and Et and octyl esters)	8	III

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All intentional components of this product are either on the DSL, the confidential DSL or notifications / import restrictions are in place.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

SECTION 16. OTHER INFORMATION

SDS Prepared By Product Safety Committee

Phone No. 403-279-8545

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Disclaimer 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.

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