

# FLASH 21A

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	FLASH 21A
<b>Product Family</b>	Phosphate Ester
<b>Recommended Use</b>	Hydrocarbon gelling agent.
<b>Restrictions on Use</b>	Industrial Use Only.
<b>Supplier Identifier</b>	Perimeter Solutions, 3060 Airport Road, Kamloops, British Columbia, V2B 7X2, 250-554-3530
<b>Emergency Phone No.</b>	CHEMTREC, 1-800-424-9300, (Canada and USA -24 hours a day, 7 days a week)

## 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.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers

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1-Octanol	111-87-5	5 - 10	
Phosphoric acid, mixed decyl and Et and octyl esters	68412-60-2	80 - 100	
n-Decyl alcohol	112-30-1	3 - 7	
Phosphoric acid solutions	7664-38-2	0.1 - 1	

#### Notes

Concentrations are expressed in % weight/weight.

The specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret.

## 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. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

#### 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 immediate medical attention.

#### 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 immediate 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.

## 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.

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## 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 <sup>3</sup>	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	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
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)

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<b>Evaporation Rate</b>	Not available
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	1.03 at 25 °C (77 °F)
<b>Solubility</b>	Insoluble in water
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic)
<b>Other Information</b>	
<b>Physical State</b>	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 <sup>3</sup> (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 <sup>3</sup> (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.

### Serious Eye Damage/Irritation

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

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

### 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

### 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

### Ecotoxicity

Studies were not located.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

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

## 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 components of this product are listed on the DSL.

#### USA

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

All ingredients are listed on the TSCA Inventory.

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## SECTION 16. OTHER INFORMATION

**SDS Prepared By** Product Safety Committee

**Phone No.** 403-279-8545

**Date of Preparation** March 09, 2022

**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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