

FLASH 21 A

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	FLASH 21 A
Product Family	Phosphate Ester
Manufacturer	ICL Performance Products Canada Ltd., 3060 Airport Road, Kamloops , British Columbia, V2B 7X2, 250-554-3530
Emergency Contact Information	CANUTEC, 613-996-6666 or *666 on a cellular phone (Canada Only), 24 Hours / Day
Use	Hydrocarbon gelling agent

2. HAZARDS IDENTIFICATION

Potential Health Effects

Inhalation	Harmful. Mists may cause significant lung irritation. Can cause serious damage to lung tissue and respiratory tract.
Skin Contact	CORROSIVE. Repeated or prolonged exposure can irritate or burn the skin. Low acute dermal toxicity.
Eye Contact	CORROSIVE. May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.
Ingestion	Harmful. Can burn the lips, tongue, throat and stomach.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

4. FIRST AID MEASURES

First Aid Procedures

Inhalation	Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Move victim to fresh air. Seek medical attention if respiratory irritation or distress continues. Keep at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation.
Skin Contact	Avoid direct contact. Wear chemical protective clothing if necessary. Quickly take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately flush with lukewarm, gently flowing water for at least 30 minutes. Seek medical attention if irritation develops or persists.
Eye Contact	Avoid direct contact. Wear chemical protective gloves if necessary. Immediately flush 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	Have victim rinse mouth with water. If vomiting occurs naturally, have victim lean forward to

reduce risk of aspiration. Have victim rinse mouth with water again. Seek medical attention. Do not induce vomiting.

5. FIRE FIGHTING MEASURES

Flammable Properties	Will Burn.
Suitable Extinguishing Media	Dry chemical Carbon Dioxide Alcohol Foam Water Fog.
Unsuitable Extinguishing Media	Water Jet.
Specific Hazards Arising from the Chemical	Containers may explode (due to the build-up of pressure) when exposed to extreme heat.
Protective Equipment and Precautions for Firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Firefighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use the Personal Protective Equipment recommended in Section 8 of this MSDS.
Environmental Precautions	Do not flush to drain.
Methods for Containment and Clean-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.

7. HANDLING AND STORAGE

Handling	Avoid generating vapours or mists. Wear personal protective equipment to avoid direct contact with this chemical.
Storage	Store in tightly closed containers. Store in an area that is: well-ventilated. Dry away from ignition sources separate from incompatible materials (see Section 10: Stability and Reactivity).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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

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

Personal Protective Equipment (PPE)

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) consideration must be given both to durability as well as permeation

MSDS Name: FLASH 21A - Ver. 2

Date of Preparation: April 30, 2014

Page 02 of 05

resistance.

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Yellow liquid.
Odour	Odourless
Boiling Point	111 - 237 °C (232 - 459 °F)
Melting Point	Not available
Freezing Point	-10 °C (14 °F)
Relative Density (water = 1)	1.00 - 1.03 at 25 °C (77 °F)
Solubility in Water	Dispersible
pH	< 2 (100% solution)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Flash Point	> 93.3 °C (199.9 °F) (closed cup)

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.

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

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	Not available	1530 mg/kg (rat)	2740 mg/kg (rabbit)

Eye Irritation/Corrosion

No information was located.

Effects of Short-Term (Acute) Exposure

Inhalation

No information was located.

Skin Absorption

No information was located.

Ingestion

No information was located.

Carcinogenicity

MSDS Name: FLASH 21A - Ver. 2

Date of Preparation: April 30, 2014

Page 03 of 05

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.

Teratogenicity / Embryotoxicity

No information was located.

12. ECOLOGICAL INFORMATION

General Comments Environmental information was not located.

Ecotoxicity Studies were not located.

Persistence and Degradability No information was located.

Bioaccumulation / Accumulation No information was located.

13. DISPOSAL CONSIDERATIONS

Waste Management options should first consider possible re-use or recycling opportunities. Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction. Dilute with cold water and neutralize with a dilute solution of sodium hydroxide. Dewater (eg. evaporation) the neutralized solution and dispose of salt in a secure landfill.

Alternatively, incerate directly or in combination with a flammable solvent.

14. TRANSPORT INFORMATION

Shipping Information

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

Other Transport Information

Special Shipping Information Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification



Class E

E - Corrosive

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

16. OTHER INFORMATION

MSDS Prepared By Product Safety Committee
Phone No. 403-279-8545
Date of Preparation April 30, 2014
Revision Indicators Skin Contact; WHMIS Classification; Conditions to Avoid; Solubility in Water.
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.