

SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product name : FLASH 21A

1.2. Recommended uses and restrictions

Recommended use : Hydrocarbon gelling agent

1.3. Supplier information

Perimeter Solutions, Solberg Asia Pacific Pty Ltd.
46 Hudson Crescent, Lavington, NSW 2641, Australia
Tel. +61 2 6040 6900
24hr Tel: +61 2 9430 6396

Emergency number :CHEMTREC 800-424-9300 CANUTEC 613-996-6666
1-800-862-115 (Australia)

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification (GHS-AU)

Skin Corr. 1C H314
Eye Dam. 1 H318

2.2. Label elements

Hazard pictograms (GHS-AU) :



GHS05

Signal word (GHS-AU) : Danger

Contains : Phosphoric acid, mixed decyl and ethyl and octyl esters; 1-Octanol; 1-Decanol; Phosphoric acid

Hazard statements (GHS-AU) : H314 - Causes severe skin burns and eye damage

Precautionary statements (GHS-AU) : P264 - Wash exposed areas thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
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 victim to fresh air and keep at rest in a position 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 physician
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

Additional hazard statements (GHS-AU) : AUH071 - Corrosive to the respiratory tract

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Name	CAS No	%
Phosphoric acid, mixed decyl and ethyl and octyl esters	68412-60-2	> 60
1-Octanol	111-87-5	< 10
1-Decanol	112-30-1	< 10
Phosphoric acid	7664-38-2	< 2

Any components of this mixture not classified as hazardous under the regulations and guidance relevant to this document are not indicated in the composition appearing in this section.

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SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Treat symptomatically.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer oxygen if advised to do so by a Poison Centre or doctor. If the victim is not breathing perform artificial respiration. Seek medical attention if respiratory irritation or distress continues.
- First-aid measures after skin contact : Take off immediately all contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse skin with lukewarm water for at least 30 minutes. Seek medical attention if irritation develops or persists.
- First-aid measures after eye contact : Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE (Australia Telephone 13 11 26) or physician.
- First-aid measures after ingestion : NEVER give anything by mouth to an unconscious person. Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Symptoms caused by exposure

- Symptoms/injuries after inhalation : Corrosive to the respiratory tract.
- Symptoms/injuries after skin contact : Burns.
- Symptoms/injuries after eye contact : Serious damage to eyes. Can cause blindness.
- Symptoms/injuries after ingestion : Burns.

4.3. Indication of any immediate medical attention and special treatment needed

- Other medical advice or treatment : Treat symptomatically. Watch for symptoms of aspiration.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Water fog. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a water jet since it may cause frothing causing the fire to spread.

5.2. Special hazards arising from the substance or mixture

- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus (SCBA) operated in positive pressure mode. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area, remove all ignition sources. Avoid contact with skin and eyes. Do not breathe fumes, mist, vapors or spray. Restrict access to the area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

- Avoid release to the environment.

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6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Small Spills: Introduce good ventilation and remove ignition sources. Wear suitable gloves and respirator and soak up material with dry sand or Vermiculite (do not use a combustible absorbent such as sawdust). Place the recovered material in a suitable waste disposal container. Seal the container and label it in accordance with the NOHSC/ASCC labelling code. Wash spill area with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

Large spills: Isolate and restrict entry to spill area. Wearing full personal protection equipment, contain spill with dry sand, earth, or Vermiculite (do not use a combustible absorbent such as sawdust). Prevent run-off into drains or waterways. Bail or pump any free liquid into suitable sealable containers. Collect absorbed material and place it also into suitable sealable containers. Seal all containers and label them in accordance with the NOHSC/ASCC labelling code to ensure proper disposal. Hose down residue with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe mists, vapors or spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in tightly closed containers. Store in a cool, dry well-ventilated place. Avoid exposure to direct sunlight or sources of heat or ignition. Store away from incompatible materials (see Section 10). Protect containers against physical damage. Guard against static discharge.

SECTION 8: Exposure controls/personal protection

An Australian exposure standard for this mixture has not been set by NOHSC/ASCC. Information for components are shown below :

8.1. Control parameters - exposure standards

Phosphoric acid (7664-38-2)		
Australia Exposure Standards	TWA (mg/m ³)	1 mg/m ³
Australia Exposure Standards	STEL (mg/m ³)	3 mg/m ³
USA - ACGIH	ACGIH TWA (mg/m ³)	1 mg/m ³
USA - ACGIH	ACGIH STEL (mg/m ³)	3 mg/m ³

1-Octanol (111-87-5)		
Australia Exposure Standards	TWA (ppm)	50 ppm

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

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8.4. Personal protective equipment

Hand protection	: Protective gloves
Eye protection	: Chemical safety goggles
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In the event of a large spill or if working in enclosed areas, or if mists, aerosols or vapors are generated and their airborne concentration is unknown wear, in the addition to the above, a full-face AS/NZ 1716 compliant cartridge type respirator with an organic vapor filter; combine it with a particulate filter in the presence of aerosols or mists (for selection guidance see AS/NZ 1715). If respiratory protection in the workplace can only be achieved by the use of PPE, or when working in confined spaces, use a full-face air supplied respirator.
Engineering Controls	: General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists. Ensure that ventilation is sufficient to control exposure levels below exposure standards.
Environmental exposure controls	: Avoid uncontrolled release to the environment.

SECTION 9: Physical and chemical properties

Physical state	: Liquid
Appearance	: Yellow Liquid
Odor	: Odourless
Odor threshold	: No data available
pH	: 2
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Melting point : Not applicable Freezing point : -10 °C (14 °F)
Boiling point	: 111.61 – 237.22 °C (232.90 – 459.00 °F)
Flash point	: > 93.3 °C (199.9 °F) (closed cup)
Auto-ignition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Density	: Relative density : 1.03 at 25 °C (77 °F)
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Explosive limits	: No data available
Minimum ignition energy	: No data available
Fat solubility	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Hot surfaces, strong heating, open flames or other ignition sources (see section 7).
Incompatible materials	: Strong oxidizing agents. Strong bases. Strong reducing agents.
Hazardous decomposition products	: Oxides of carbon. Oxides of phosphorus.

SECTION 11: Toxicological information

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.

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This solution has not been tested for overall toxicity. Published values for individual components are indicated below :

1-Octanol (111-87-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
1-Decanol (112-30-1)	
LD50 oral rat	4720 mg/kg
LD50 dermal rabbit	3560 mg/kg
LC50 inhalation mouse	2000 mg/m ³ (4-hour exposure)
Phosphoric acid (7664-38-2)	
LD50 oral rat	1530 mg/kg
LD50 dermal rabbit	2740 mg/kg

Skin corrosion/irritation	: CORROSIVE. Repeated or prolonged exposure can irritate or burn the skin. Low acute dermal toxicity.
Serious eye damage/irritation	: CORROSIVE. May cause serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.
Respiratory or skin sensitisation	: Not classified.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.
Reproductive toxicity	: Not classified.
STOT-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.
STOT-repeated exposure	: Not classified.
Aspiration hazard	: Not classified.

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Safety Data Sheets, Environmental classification information is not mandatory . The ecological effect of the mixture as a whole has not been tested. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Acute aquatic toxicity	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Chronic aquatic toxicity	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

1-Octanol (111-87-5)	
LC50 fish 1	11.4 - 12.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	17.68 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
Partition coefficient n-octanol/water	3.15
1-Decanol (112-30-1)	
LC50 fish 1	2.2 - 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	4.12 - 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
EC50 Daphnia 1	3 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Partition coefficient n-octanol/water	4.11

12.2. Persistence and degradability

This material is not readily degradable due to the presence of n-decyl alcohol.

12.3. Bioaccumulative potential

1-Octanol (111-87-5)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology
1-Decanol (112-30-1)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology

12.4. Mobility in soil

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1-Octanol (111-87-5)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology
1-Decanol (112-30-1)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology

12.5. Other adverse effects

Ozone	: Not classified.
Other adverse effects	: No additional information available

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Fluorinated greenhouse gases	False
GWPmix comment	No known effects from this product.
Phosphoric acid, mixed decyl and ethyl and octyl esters (68412-60-2)	
Fluorinated greenhouse gases	False
1-Octanol (111-87-5)	
Fluorinated greenhouse gases	False
1-Decanol (112-30-1)	
Fluorinated greenhouse gases	False
Phosphoric acid (7664-38-2)	
Fluorinated greenhouse gases	False

SECTION 13: Disposal considerations

Waste treatment methods	: Waste resulting from this mixture may only be disposed of in accordance with applicable State and local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is counselled to seek advice from the local authority and classify the waste before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations. When large amounts of this product need to be disposed of the services of a registered, professional waste disposal or recycling organisation is highly recommended.
Disposal	: If possible recycle, otherwise dispose strictly in accordance with local industrial waste or environmental protection regulations. Send empty drums to a drum recycling organisation (ensure that the labels are legible and remain on the drums). If permitted, the best option for disposal is incineration, with or without a flammable solvent at an accredited incineration facility.
Special Precautions	: Do not allow this material to contaminate soil, sewerage systems, surface or ground water. Use only the original containers or equivalent and ensure they are properly sealed to prevent spillage. The empty drums must not be reused, cut, welded drilled or subjected to a grinding operation or be stored in the vicinity of such operations.

SECTION 14: Transport information

14.1. UN number

UN-No. (ADG)	: 3265
UN-No. (IMDG)	: 3265
UN-No. (IATA)	: 3265

14.2. Proper Shipping Name - Addition

Proper Shipping Name (ADG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DECYL, OCTYL, ETHYL ALCOHOL PHOSPHATE ESTER)
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DECYL, OCTYL, ETHYL ALCOHOL PHOSPHATE ESTER)
Proper Shipping Name (IATA)	: Corrosive liquid, acidic, organic, n.o.s. (decyl, decyl, octyl, ethyl alcohol phosphate ester)

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG)	: 8
Danger labels (ADG)	: 8

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IMDG

Transport hazard class(es) (IMDG) : 8
Danger labels (IMDG) : 8



IATA

Transport hazard class(es) (IATA) : 8
Hazard labels (IATA) : 8



14.4. Packing group

Packing group (ADG) : III

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available.

14.8. Hazchem or Emergency Action Code

Hazchem code : 2X

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

AICS All ingredients are listed on the AICS
SUSMP Exempt
AgVet Not listed

15.2. International agreements

No additional information available

SECTION 16: Any other relevant information

Revision date : 24/02/2017

Classification:

Skin Corr. 1C	H314
Eye Dam. 1	H318

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This safety data sheet (SDS) summarises as of the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace. Since Perimeter Solutions, Solberg Asia Pacific Pty Ltd. cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use then product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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