

# Safety Data Sheet: FLASH II

Supersedes Date 10/18/2016

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**Formula Code** FLASH II

**Recommended use** Disinfectants and general biocidal products

**Information on Manufacturer**

CHECK-MARK DIV. OF DM RESOURCES, INC.

1310 E. NORTHGATE DRIVE

IRVING, TEXAS 75062

**Product Code** 5308

**Chemical nature** Aerosol

**Emergency Telephone**

CHEMTREC® 800-424-9300

**Telephone inquiry**

972-579-2477

## 2. HAZARD IDENTIFICATION

**Color** Light Straw

**Physical state** Liquid

**Odor** Citrus - Slight Ammonia

**GHS**

**Classification**

Physical Hazards

Flammable Aerosols

Gases under pressure

Category 2

Liquefied gas

Health Hazard

Serious Eye Damage/Eye Irritation

Category 2B

Other hazards

None

**Labeling**

Signal Word

**DANGER**



Hazard statements

H223 - Flammable aerosol

H320 - Causes eye irritation

H280 - Contains gas under pressure; may explode if heated

Precautionary Statements

P210 - Keep away from heat, sparks, open flames or hot surfaces.

P211 - Do not spray on an open flame or other ignition source

P251 - Pressurized container: Do not pierce or burn, even after use

P264 - Wash face, hands and any exposed skin thoroughly after handling.

P270 - Do not eat, drink or smoke when using this product

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists, get medical attention.

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

P403 - Store in a well-ventilated place

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
2-Butoxyethanol	111-76-2	7-13
Petroleum gases, liquified, sweetened	68476-86-8	5-10
Isopropyl alcohol	67-63-0	3-7
Potassium hydroxide	1310-58-3	1-5
Ethylenediaminetetraacetic acid	60-00-4	1-5

\*The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**General advice**

Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.

**Eye Contact**

Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

<b>Skin Contact</b>	No hazards which require special first aid measures.
<b>Inhalation</b>	No hazards which require special first aid measures.
<b>Ingestion</b>	No hazards which require special first aid measures.
<b>Notes to physician</b>	Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

<b>Flash Point</b> No data available	<b>Method</b> No data available	
<b>Flammability Limits in Air %:</b> Mixture.	<b>Upper:</b> 9.5	<b>Lower:</b> 1.8
<b>Suitable Extinguishing Media</b>		
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Foam. Water.		
<b>Specific hazards arising from the chemical</b>		
Flammable. Flame height: 12 cm (4.7 inches) and Flame duration: 5.9 sec. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.		
<b>Protective Equipment and Precautions for Firefighters</b>		
As in any fire, wear self-contained breathing apparatus pressure-demand, NOHSC (approved or equivalent) and full protective gear.		
<b>Aerosol Level (NFPA 30B) -</b>	1	
<b>NFPA</b>	<b>Health</b> 1	<b>Flammability</b> 4
<b>HMIS -</b>	<b>Health</b> 1	<b>Flammability</b> 4
		<b>Instability</b> 1

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. Take precautionary measures against static discharges. Material can create slippery conditions.
<b>Environmental precautions</b>	Do not flush into surface water or sanitary sewer system.
<b>Methods for Containment</b>	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
<b>Neutralizing Agent</b>	Not applicable.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Keep away from open flames, hot surfaces and sources of ignition. Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas.				
<b>Storage</b>	Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place. Store in original container.				
<b>Storage Temperature</b>	<b>Minimum</b>	No information available		<b>Maximum</b>	No information available
<b>Storage Conditions</b>	<b>Indoor</b>	X	<b>Outdoor</b>	<b>Heated</b>	<b>Refrigerated</b>

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> Skin	700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>	2000 ppm STEL 500 ppm STEL 1225 mg/m <sup>3</sup> TWA: 400 ppm TWA: 980 mg/m <sup>3</sup>
Potassium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	No data available	Ceiling: 2 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<b>Personal Protective Equipment</b>	
<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin Protection</b>	Wear suitable protective clothing, Impervious gloves.
<b>Respiratory Protection</b>	In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
<b>General Hygiene Considerations</b>	Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid	<b>Viscosity</b>	Non viscous
<b>Color</b>	Light Straw	<b>Odor</b>	Citrus - Slight Ammonia
<b>Odor Threshold</b>	Not applicable	<b>Appearance</b>	Hazy - Cloudy
<b>pH</b>	11.7	<b>Specific Gravity</b>	1.00
<b>Evaporation Rate</b>	<1 (Butyl acetate=1)	<b>Percent Volatile (Volume)</b>	>16
<b>VOC Content (%)</b>	16	<b>VOC Content (g/L)</b>	160
<b>Vapor pressure</b>	17.5 mmHg @ 77°F	<b>Vapor Density</b>	<1 (Air = 1.0)
<b>Solubility</b>	Soluble	<b>n-Octanol/Water Partition</b>	No data available
<b>Melting Point/Range</b>	No data available	<b>Decomposition Temperature</b>	No data available
<b>Boiling Point/Range</b>	212 °F / 100 °C	<b>Flammability (solid, gas)</b>	No data available
<b>Flash Point</b>	No data available	<b>Method</b>	No data available
<b>Autoignition Temperature</b>	No information available.		
<b>Flammability Limits in Air %:</b>	Mixture	<b>Upper: 9.5 Lower: 1.8</b>	

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable. Hazardous polymerization does not occur.
<b>Conditions to Avoid</b>	Heat, flames, and sparks, Keep away from open flames, hot surfaces, and sources of ignition, Extremes of temperature and direct sunlight.
<b>Incompatible Products</b>	Strong oxidizing agents, Strong acids, Strong bases.
<b>Decomposition Temperature</b>	No data available
<b>Hazardous Decomposition Products</b>	Carbon oxides.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.

## 11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

<b>Oral LD50</b>	No information available
<b>Dermal LD50</b>	No information available
<b>Inhalation LC50</b>	
<b>Gas</b>	No information available
<b>Mist</b>	No information available
<b>Vapor</b>	No information available

**Principle Route of Exposure** Skin contact, Eye contact, Inhalation.  
**Primary Routes of Entry** Skin contact, Skin Absorption, Ingestion.

<b>Acute Effects:</b>	
<b>Eyes</b>	Causes eye irritation.
<b>Skin</b>	Low hazard for usual industrial or commercial handling.
<b>Inhalation</b>	Low hazard for usual industrial or commercial handling.
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Chronic Toxicity</b>	Prolonged exposure can be harmful for certain organs, e.g. liver, kidneys, blood, nervous system and skin.
<b>Target Organ Effects:</b>	Liver, Kidney, Central nervous system, Eyes, Skin, Respiratory system, Blood, Lymphatic System.
<b>Aggravated Medical Conditions</b>	Respiratory disorders, Skin disorders, Liver disorders, Kidney disorders, Neurological disorders, Blood disorders.

Component Information

### Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 1100 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h = 486 ppm ( Rat ) 4 h	No data available	No data available
Isopropyl alcohol 67-63-0	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h	No data available	No data available
Potassium hydroxide 1310-58-3	= 284 mg/kg ( Rat )	no data available	No data available	No data available	No data available
Ethylenediaminetetraacetic acid 60-00-4	> 2000 mg/kg ( Rat )	no data available	No data available	No data available	No data available

### Chronic Toxicity

Chemical name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
2-Butoxyethanol 111-76-2	No data available	No data available	No data available	No data available	Blood; Hematopoietic System; Skin; Central nervous system; Eyes; Respiratory system; Liver; Kidney
Isopropyl alcohol 67-63-0	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system

Potassium hydroxide 1310-58-3	No data available	No data available	No data available	No data available	Skin; Eyes; Respiratory system
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**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA	Other
2-Butoxyethanol 111-76-2	A3	Group 3	Not applicable	Not applicable	Not applicable
Isopropyl alcohol 67-63-0	A4	Group 3	Not applicable	Not applicable	Not applicable

**12. ECOLOGICAL INFORMATION**

Product Information

No information available.

Component Information

Chemical name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficient
2-Butoxyethanol	No information available.	LC50 = 1490 mg/L <i>Lepomis macrochirus</i> 96 h LC50 = 2950 mg/L <i>Lepomis macrochirus</i> 96 h	No information available	1698 - 1940: 24 h <i>Daphnia magna</i> mg/L EC50 1000: 48 h <i>Daphnia magna</i> mg/L EC50	0.81
Petroleum gases, liquified, sweetened	No information available.	No information available.	No information available	No information available.	2.8
Isopropyl alcohol	EC50 > 1000 mg/L <i>Desmodesmus subspicatus</i> 72 h EC50 > 1000 mg/L <i>Desmodesmus subspicatus</i> 96 h	LC50 = 9640 mg/L <i>Pimephales promelas</i> 96 h LC50 > 1400000 µg/L <i>Lepomis macrochirus</i> 96 h LC50 = 11130 mg/L <i>Pimephales promelas</i> 96 h	EC50 = 35390 mg/L 5 min	13299: 48 h <i>Daphnia magna</i> mg/L EC50	0.05
Potassium hydroxide	No information available.	LC50 = 80 mg/L <i>Gambusia affinis</i> 96 h	No information available	No information available.	0.83
Ethylenediaminetetraacetic acid	EC50 = 1.01 mg/L <i>Desmodesmus subspicatus</i> 72 h	LC50 34 - 62 mg/L <i>Lepomis macrochirus</i> 96 h LC50 44.2 - 76.5 mg/L <i>Pimephales promelas</i> 96 h	No information available	113: 48 h <i>Daphnia magna</i> mg/L EC50 Static	N/A

**Persistence and Degradability**

No information available.

**Bioaccumulation**

No information available.

**Mobility**

No information available.

**13. DISPOSAL CONSIDERATIONS****Product Disposal**

Dispose of in accordance with local regulations.

**Container Disposal**

Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION****DOT**

**Proper Shipping Name** AEROSOLS, FLAMMABLE  
**Hazard Class** 2.1  
**UN-No** UN1950  
**Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

**TDG**

**Proper shipping name** AEROSOLS, FLAMMABLE  
**Hazard Class** 2.1  
**UN-No** UN1950  
**Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

**ICAO**

**UN-No** UN1950  
**Proper Shipping Name** AEROSOLS, FLAMMABLE  
**Hazard Class** 2.1  
**Shipping Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

**IATA**

**UN-No** UN1950  
**Proper Shipping Name** AEROSOLS, FLAMMABLE  
**Hazard Class** 2.1

ERG-Code 2L  
 Shipping Description UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

**IMDG/IMO**

UN proper shipping name AEROSOLS  
 Hazard Class 2.1  
 UN Number UN1950  
 EmS No. F-D, S-U  
 Description UN1950, AEROSOLS, 2.1, LTD QTY

## 15. REGULATORY INFORMATION

**Inventories**

TSCA Complies  
 DSL Complies

**U.S. Federal Regulations****FIFRA**

This chemical is a pesticide product registered by the US EPA and is subject to certain labeling requirements under federal pesticide laws. These requirements differ from the classification criteria and hazard information required for SDSs, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**CAUTION**

Causes moderate eye irritation.  
 Harmful if swallowed or absorbed through skin.  
 Contents under pressure

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

**SARA 311/312 Hazardous Categorization**

See Section 2

**CERCLA**

Chemical name	Hazardous Substances RQs	CERCLA EHS RQs
Potassium hydroxide	1000 lb	Not applicable
Ethylenediaminetetraacetic acid	5000 lb	Not applicable

**U.S. State Regulations****California Proposition 65**

This product can expose you to chemicals including those listed in the table below, which is [are] known to the State of California to cause either cancer and/or birth defects or other reproductive harm, (as indicated next to the chemical of concern). For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Chemical name	CAS No.	California Prop. 65
Ethylene oxide	75-21-8	carcinogen developmental toxicity male reproductive toxicity female reproductive toxicity

## 16. OTHER INFORMATION

Prepared By Adrienne McKee  
 Supersedes Date 10/18/2016  
 Issuing Date 08/06/2019  
 Reason for Revision No information available.  
 Glossary No information available.  
 List of References. No information available.

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