

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10/18/2017 Version: 5.0

### **SECTION 1: Identification**

Identification

Product form : Mixture

Trade name : HANDY FLO 131 Product code A00001147

#### Recommended use and restrictions on use

No additional information available

#### **Supplier**

Lucas-Milhaupt, Inc. 5656 South Pennsylvania Ave. Cudahy, WI 53110 - USA T (414)-769-6000

LM\_SDSinfo@lucasmilhaupt.com - www.Lucasmilhaupt.com

#### **Emergency telephone number**

Emergency number : CHEMTREC within the USA and Canada: 1-800-424-9300

CHEMTREC outside the USA and Canada +1 701-741-5970

# SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

#### **GHS US classification**

Acute toxicity (oral), H302 Harmful if swallowed. Category 4

Serious eye damage/eye H320 Causes eye irritation

irritation, Category 2B

Reproductive toxicity, H361 Suspected of damaging fertility or the unborn child.

Category 2

Aspiration hazard, H304 May be fatal if swallowed and enters airways.

Category 1

Full text of H statements: see section 16

#### GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)





Signal word (GHS US) : Danger

H302 - Harmful if swallowed. Hazard statements (GHS US)

H304 - May be fatal if swallowed and enters airways.

H320 - Causes eye irritation

H361 - Suspected of damaging fertility or the unborn child.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product.

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

P301+P310 - If swallowed: Immediately call a poison center/doctor P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell

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

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

P308+P313 - If exposed or concerned: Get medical advice/attention.

P330 - Rinse mouth.

P331 - Do NOT induce vomiting.

P337+P313 - If eye irritation persists: Get medical advice/attention.

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

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#### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Potassium fluoride (K(HF2))	(CAS-No.) 7789-29-9	22 - 30
Boric acid (H3BO3)	(CAS-No.) 10043-35-3	25 - 30
Petroleum distillates, hydrotreated light	(CAS-No.) 64742-47-8	4.64 - 6.33
Carbonic acid, dipotassium salt	(CAS-No.) 584-08-7	2 - 4
Ethyl alcohol	(CAS-No.) 64-17-5	0 - 0.43

Full text of hazard classes and H-statements: see section 16

#### **SECTION 4: First-aid measures**

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a

doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician

immediately. Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact ler do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

# **SECTION 5: Fire-fighting measures**

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry powder. Water spray. Foam.

Unsuitable extinguishing media : Water.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Flammable solid. Self-heating: may catch fire. May form combustible dust concentrations in air.

Reactivity : The product is non-reactive under normal conditions of use, storage and transport. Flammable

solid. Self-heating: may catch fire.

#### 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. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Only qualified

personnel equipped with suitable protective equipment may intervene. No open flames, no

sparks, and no smoking.

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#### 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. Notify authorities if product enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

For containment

: Collect spillage.

Methods for cleaning up

: Mechanically recover the product. Notify authorities if product enters sewers or public waters.

Other information

: Dispose of materials or solid residues at an authorized site.

#### 6.4. Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Handle under inert gas. Protect from moisture. Do not allow contact with water. Avoid dust formation. Use only outdoors or in a well-ventilated area.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment. Maintain air gap between stacks/pallets.

Storage conditions

Store in a well-ventilated place. Keep cool. Store locked up. Protect from sunlight. Keep away from ignition sources. Store away from other materials. Protect from moisture. Store in a dry place. Store in a closed container. Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Keep container tightly closed.

Incompatible materials : Metals.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Potassium fluoride (K(HF2)) (7789-29-9)				
Not applicable				
Ethyl alcohol (64-17-5)				
ACGIH	ACGIH STEL (ppm)	1000 ppm		
OSHA	OSHA PEL (TWA) (mg/m³)	1900 mg/m³		
OSHA	OSHA PEL (TWA) (ppm)	1000 ppm		
IDLH	US IDLH (ppm)	3300 ppm (10% LEL)		
NIOSH	NIOSH REL (TWA) (mg/m³)	1900 mg/m³		
NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm		
Boric acid (H3BO3) (10043-35-3)				
ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (inhalable particulate matter)		
ACGIH	CGIH ACGIH STEL (mg/m³) 6 mg/m³ (inhalable particulate matter)			
Petroleum distillates, hydrotreated light (64742-47-8)				
Not applicable				
Carbonic acid, dipotassium salt (584-08-7)				

### 8.2. Appropriate engineering controls

Not applicable

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

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Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. [In case of inadequate ventilation] wear respiratory protection.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : No data available Odour : No data available Odour threshold : No data available No data available Ηq : No data available Melting point Freezing point : Not applicable : No data available Boiling point Flash point : Not applicable Relative evaporation rate (butylacetate=1) : No data available

Flammability (solid, gas) : Non flammable . Flammable solid. In contact with water releases flammable gases. In contact

with water releases flammable gases which may ignite spontaneously.

Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : Not applicable Solubility : No data available Log Pow No data available Auto-ignition temperature : Not applicable Decomposition temperature : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available **Explosive limits** Not applicable : No data available Explosive properties Oxidising properties : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Flammable solid. Self-heating: may catch fire.

#### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. In contact with water releases flammable gases. In contact with water releases flammable gases which may ignite spontaneously.

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#### **Conditions to avoid**

None under recommended storage and handling conditions (see section 7). Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Water, humidity. Avoid dust formation.

#### 10.5. Incompatible materials

metals.

#### 10.6. **Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### Information on toxicological effects

: Oral: Harmful if swallowed. Acute toxicity (oral)

Acute toxicity (dermal) : Not classified

: Not classified			
500 mg/kg bodyweight			
160 mg/kg			
160 mg/kg bodyweight			
7060 mg/kg			
124.7 mg/l/4h			
7060 mg/kg bodyweight			
124.7 mg/l/4h			
124.7 mg/l/4h			
Boric acid (H3BO3) (10043-35-3)			
2660 mg/kg			
> 2000 mg/kg			
> 0.16 mg/l/4h			
2660 mg/kg bodyweight			
Petroleum distillates, hydrotreated light (64742-47-8)			
> 5000 mg/kg			
> 2000 mg/kg			
> 5.2 mg/l/4h			
3 mg/l/4h			

ATE US (vapours)	3 mg/l/4h
Carbonic acid, dipotassium salt (584-08-7)	
LD50 oral rat	1870 mg/kg
ATE US (oral)	1870 mg/kg bodyweight

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Causes eye irritation. Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Ethyl alcohol (64-17-5)		
IARC group	1 - Carcinogenic to humans	
In OSHA Hazard Communication Carcinogen list	Yes	

: Suspected of damaging fertility or the unborn child. Reproductive toxicity

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic : No data available

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment. Harmful to aquatic life.

Ethyl alcohol (64-17-5)	
LC50 fish 1	12.0 - 16.0 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	9268 - 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 Daphnia 2	2 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
Boric acid (H3BO3) (10043-35-3	
EC50 Daphnia 1	115 - 153 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Petroleum distillates, hydrotrea	ted light (64742-47-8)
LC50 fish 1	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
Carbonic acid, dipotassium sal	t (584-08-7)
EC50 Daphnia 1	630 mg/l (Exposure time: 48 h - Species: Ceriodaphnia dubia)

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

Ethyl alcohol (64-17-5)		
Log Pow	-0.32	
Boric acid (H3BO3) (10043-35-3)		
BCF fish 1	0	
Log Pow	-0.757 (at 25 °C)	
Petroleum distillates, hydrotreated light (64742-47-8)		
BCF fish 1	61 - 159	

#### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

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#### **Transportation of Dangerous Goods**

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

# **SECTION 15: Regulatory information**

# 15.1. US Federal regulations

#### Potassium fluoride (K(HF2)) (7789-29-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Ethyl alcohol (64-17-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Boric acid (H3BO3) (10043-35-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### Carbonic acid, dipotassium salt (584-08-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

### 15.2. International regulations

# Potassium fluoride (K(HF2)) (7789-29-9)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Ethyl alcohol (64-17-5)

Listed on IARC (International Agency for Research on Cancer)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

# Boric acid (H3BO3) (10043-35-3)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

#### Petroleum distillates, hydrotreated light (64742-47-8)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

# Carbonic acid, dipotassium salt (584-08-7)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

# 15.3. US State regulations



This product can expose you to Ethyl alcohol, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Ethyl alcohol(64-17-5)	X	X				
Methyl alcohol(67-56-1)		Х				47000 µg/day inhalation
2-Pentanone, 4- methyl-(108-10-1)	X	Х				

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Component	State or local regulations
Potassium fluoride (K(HF2))(7789-29-9)	U.S New Jersey - Right to Know Hazardous Substance List
Ethyl alcohol(64-17-5)	U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List
Boric acid (H3BO3)(10043-35-3)	
Carbonic acid, dipotassium salt(584-08-7)	
Petroleum distillates, hydrotreated light(64742-47-8)	

# **SECTION 16: Other information**

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#### Full text of H-statements:

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H320	Causes eye irritation
H361	Suspected of damaging fertility or the unborn child.

### SDS US (GHS HazCom 2012)

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