

# Safety Data Sheet

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

Date of issue: 11/27/2017 Version: 5.0

### **SECTION 1: Identification**

1.1. Identification

Product form : Substance

Trade name : HANDY FLO 420

Product code : A00001154

### 1.2. Recommended use and restrictions on use

No additional information available

#### 1.3. Supplier

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

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

### 1.4. 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**

Specific target organ H373

toxicity — Repeated exposure, Category 2

May cause damage to organs through prolonged or repeated exposure.

Full text of H statements : see section 16

### 2.2. GHS Label elements, including precautionary statements

### **GHS US labelling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H373 - May cause damage to organs through prolonged or repeated exposure.

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P314 - Get medical advice/attention if you feel unwell.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation

#### 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

Name : HANDY FLO 420

| Name            | Product identifier | %       |
|-----------------|--------------------|---------|
| Ethylene glycol | (CAS-No.) 107-21-1 | 43 - 50 |

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

### 3.2. Mixtures

Not applicable

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

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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

occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation.

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

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapour.
Reactivity : Highly flammable liquid and vapour.

### 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. No open flames, no sparks, and no smoking. Avoid contact with skin

and eyes.

### 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.

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

Methods for cleaning up : Take up liquid spill into absorbent material. 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. Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid contact with skin and eyes.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. **Control parameters**

| Ethylene glycol (107-21-1)         |                    |   |  |  |
|------------------------------------|--------------------|---|--|--|
| ACGIH TWA (ppm)                    |                    | 25 ppm (vapor fraction)                               |  |  |
| ACGIH                              | ACGIH STEL (mg/m³) | 10 mg/m³ (inhalable particulate matter, aerosol only) |  |  |
| ACGIH ACGIH STEL (ppm) 50 ppm (var |                    | 50 ppm (vapor fraction)                               |  |  |

### **Appropriate engineering controls**

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

: No data available

: No data available

Environmental exposure controls : Avoid release to the environment.

### Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Colour

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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

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

Physical state : Liquid

Odour : No data available : No data available Odour threshold рΗ : No data available Melting point : Not applicable Freezing point : No data available : No data available Boiling point : No data available Flash point Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Not applicable.

Vapour pressure : No data available Relative vapour density at 20 °C : No data available : No data available Relative density Solubility : No data available : No data available Log Pow Auto-ignition temperature : No data available Decomposition temperature : No data available Viscosity, kinematic : No data available

Viscosity, dynamic **Explosive limits** : No data available : No data available Explosive properties

: No data available Oxidising properties

### Other information

No additional information available

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### SECTION 10: Stability and reactivity

### 10.1. Reactivity

Highly flammable liquid and vapour.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

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

### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

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

| Ethylene glycol (107-21-1) |                        |
|----------------------------|------------------------|
| LD50 oral rat              | 4700 mg/kg             |
| LD50 dermal rat            | 10600 mg/kg            |
| ATE US (oral)              | 4700 mg/kg bodyweight  |
| ATE US (dermal)            | 10600 mg/kg bodyweight |

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Irritation.

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

### **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.

| Ethylene glycol (107-21-1)   |  |  |  |
|--|--|--|--|
| LC50 fish 1 41000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)            |  |  |  |
| EC50 Daphnia 1 46300 mg/l (Exposure time: 48 h - Species: Daphnia magna)               |  |  |  |
| LC50 fish 2 14 - 18 ml/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |  |  |  |

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

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| Ethylene glycol (107-21-1) |       |
|----------------------------|-------|
| Log Pow                    | -1.93 |

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

| Ethylene glycol (107-21-1)                   |     |
|--|-----|
| 1990 Hazardous Air Pollutant (Clean Air Act) | Yes |

### **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

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

Additional information : Flammable vapours may accumulate in the container.

### **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Not applicable

### **Transportation of Dangerous Goods**

Not applicable

### Transport by sea

Not applicable

### Air transport

Not applicable

### **SECTION 15: Regulatory information**

### 15.1. US Federal regulations

### Ethylene glycol (107-21-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313

CERCLA RQ 5000 lb

### 15.2. International regulations

### Ethylene glycol (107-21-1)

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<br>risk level (NSRL) | Maximum<br>allowable<br>dose level<br>(MADL) |
|-------------------------------|-----------------|------------------------|----------------------------|------------------------------|-------------------------------------|--|
| Ethylene glycol(107-<br>21-1) |                 | Х                      |                            |                              |                                     | 8700 µg/day<br>oral; ingested                |
| Ethyl alcohol(64-17-5)        | X               | Х                      |                            |                              |                                     |  |

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| Component                    | Carcinogenicity | Developmental toxicity | Reproductive toxicity male | Reproductive toxicity female | No significant<br>risk level (NSRL) | Maximum<br>allowable<br>dose level<br>(MADL) |
|------------------------------|-----------------|------------------------|----------------------------|------------------------------|-------------------------------------|--|
| Methyl alcohol(67-56-<br>1)  |                 | Х                      |                            |                              |                                     | 47000 μg/day inhalation                      |
| Phenolphthalein(77-<br>09-8) | Х               |                        |                            |                              |                                     |  |
| Benzene(71-43-2)             | Х               | Х                      | Х                          |                              | 6.4 µg/day (oral)                   | 24 µg/day oral                               |

| Component                 | State or local regulations   |
|---------------------------|--|
| Ethylene glycol(107-21-1) | U.S Massachusetts - Right To Know List<br>U.S New Jersey - Right to Know Hazardous Substance List<br>U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List<br>U.S Pennsylvania - RTK (Right to Know) List |

### **SECTION 16: Other information**

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### Full text of H-statements:

|  | H373 | May cause damage to organs through prolonged or repeated exposure. |
|--|------|--|
|--|------|--|

SDS US (GHS HazCom 2012)

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