



Printing date 05/05/2021

# Safety Data Sheet

acc. to OSHA HCS

Reviewed and Updated on: 05/05/2021

## 1 Identification

### Product identifier

**Trade name:** FILM FIGHTER CONCENTRATE

**Product Code:** 166009

### Manufacturer/Supplier:

Hydro-Chem Systems, Inc.  
6605 Broadmoor Ave, SE  
Caledonia, MI 49316, U.S.A.  
Tel: 1-800-666-1992 / Fax: 616-531-8692  
www.hydrochemsystems.com

**Information department:** Chemical Department

### Emergency telephone number:

PERS: 1-800-633-8253 #9120 (Emergency Contact for Hazardous Materials Accidents, Spills, or Leaks Only)

## 2 Hazard(s) identification

### Classification of the substance or mixture



GHS08 Health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 2 H371 May cause damage to organs.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 Environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic to aquatic life.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard pictograms



GHS05



GHS08



GHS09

**Signal word** Danger

### Hazard-determining components of labeling:

Sodium Hydroxide  
Proprietary Surfactant Blend  
Disodium Trioxosilicate

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**Hazard statements**

Causes severe skin burns and eye damage.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 May cause an allergic skin reaction.  
 May cause damage to organs.  
 Toxic to aquatic life.  
 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

Do not breathe dusts or mists.  
 Wash thoroughly after handling.  
 Do not eat, drink or smoke when using this product.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 [In case of inadequate ventilation] wear respiratory protection.  
 If swallowed: Rinse mouth. Do NOT induce vomiting.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 Immediately call a poison center/doctor.  
 IF exposed or concerned: Call a poison center/doctor.  
 Specific treatment (see on this label).  
 If skin irritation or rash occurs: Get medical advice/attention.  
 If experiencing respiratory symptoms: Call a poison center/doctor.  
 Wash contaminated clothing before reuse.  
 Collect spillage.  
 Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 3  
 Fire = 0  
 Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = \*3  
 Fire = 0  
 Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

\*

**3 Composition/information on ingredients****Chemical characterization: Mixtures****Description:** Mixture of the substances listed below with nonhazardous additions.**Dangerous components:**

|           |                              |         |
|-----------|------------------------------|---------|
|           | Proprietary Surfactant Blend | 2.5-10% |
| 1310-73-2 | Sodium Hydroxide             | 2.5-10% |

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|           |                             |       |
|-----------|-----------------------------|-------|
| 5064-31-3 | trisodium nitrilotriacetate | ≤2.5% |
| 6834-92-0 | Disodium Trioxosilicate     | ≤2.5% |

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## 4 First-aid measures

### Description of first aid measures

**General information:** Immediately remove any clothing soiled by the product.

### After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

**After skin contact:** Immediately wash with water and soap and rinse thoroughly.

### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

Maintain an ANSI approved eye wash station and safety shower in the immediate vicinity capable of delivering tepid water (60-100 degrees F) for 15 minutes.

**After swallowing:** Drink copious amounts of water and provide fresh air. Immediately call a doctor.

### Information for doctor:

**Most important symptoms and effects, both acute and delayed** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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## 5 Fire-fighting measures

### Extinguishing media

**Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

**Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.

### Advice for firefighters

**Protective equipment:** Mouth respiratory protective device.

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## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.

Wear protective equipment (safety goggles, rubber gloves). Keep unprotected persons away.

### Environmental precautions:

Do not allow product to reach storm sewer system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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## 7 Handling and storage

### Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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**Information about protection against explosions and fires:** Keep respiratory protective device available.

**Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** No special requirements.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:** Keep receptacle tightly sealed.

**Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see item 7.

**Control parameters**

**Components with limit values that require monitoring at the workplace:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

### 1310-73-2 Sodium Hydroxide

PEL Long-term value: 2 mg/m<sup>3</sup>

REL Ceiling limit value: 2 mg/m<sup>3</sup>

TLV Ceiling limit value: 2 mg/m<sup>3</sup>

**Additional information:** The lists that were valid during the creation were used as basis.

**Exposure controls**

**Personal protective equipment:**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**For the permanent contact gloves made of the following materials are suitable:**

Chemical Resistant, neoprene, nitrile, butyl rubber

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Trade name: **FILM FIGHTER CONCENTRATE****Eye protection:**

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Tightly sealed goggles

**Body protection:****Boots** Chemical Resistant, Rubber**Apron** Chemical Resistant; Rubber.

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**9 Physical and chemical properties****Information on basic physical and chemical properties****General Information****Appearance:**

**Form:** Liquid  
**Color:** Red  
**Odor:** Pleasant

**pH-value at 20 °C (68 °F):** >12.5**Change in condition**

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** 100 °C (212 °F)

**Flash point:** Not Determined.**Flammability (solid, gaseous):** Not applicable.**Decomposition temperature:** Not determined.**Auto igniting:** Product is not selfigniting.**Danger of explosion:** Product does not present an explosion hazard.**Explosion limits:**

**Lower:** Not determined.  
**Upper:** Not determined.

**Vapor pressure at 20 °C (68 °F):** 23 hPa (17.3 mm Hg)**Density:** Not determined.**Relative density** Not determined.**Vapor density** Not determined.**Evaporation rate** Not determined.**Solubility in / Miscibility with****Water:** Fully miscible.**Solvent content:****VOC content:** 0.00 %**Other information** No further relevant information available.

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**10 Stability and reactivity****Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.

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**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

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## 11 Toxicological information

### Information on toxicological effects

#### Acute toxicity:

#### LD/LC50 values that are relevant for classification:

##### 1310-73-2 Sodium Hydroxide

Oral LD50 2,000 mg/kg (rat)

##### 68439-46-3 Alcohol Ethoxylate

Oral LD50 &gt;2,000 mg/kg (rat)

Dermal LD50 3,300 mg/kg (rat)

#### Surfactant

Oral LD50 &gt;5,000 mg/kg (rat)

Dermal LD50 &gt;11,200 mg/kg (rabbit)

#### Primary irritant effect:

**on the skin:** Strong caustic effect on skin and mucous membranes.

#### **on the eye:**

Strong caustic effect.

Strong irritant with the danger of severe eye injury.

#### **Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

#### **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

#### **Carcinogenic categories**

##### IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

##### NTP (National Toxicology Program)

None of the ingredients is listed.

##### OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

\*

## 12 Ecological information

### Toxicity

#### Aquatic toxicity:

##### 68439-46-3 Alcohol Ethoxylate

EC50 5.3 mg/kg (daphnia)

**Persistence and degradability** No further relevant information available.

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**Behavior in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Ecotoxicological effects:****Remark:** Toxic for fish**Additional ecological information:****General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

**Waste treatment methods****Recommendation:**

Must not be disposed of together with household garbage. Dispose of in accordance with local and regional regulations.

**Uncleaned packagings:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agent:** Water, if necessary with cleansing agents.

\*

## 14 Transport information

**UN-Number****DOT, ADR, IMDG, IATA**

UN1824

**UN proper shipping name****DOT**

Sodium hydroxide solution

**ADR**

1824 SODIUM HYDROXIDE SOLUTION

**IMDG, IATA**

SODIUM HYDROXIDE SOLUTION

**Transport hazard class(es)****DOT****Class**

8 Corrosive substances

**Label**

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**ADR, IMDG, IATA**

**Class** 8 Corrosive substances  
**Label** 8

**Packing group**  
**DOT, ADR, IMDG, IATA** III

**Environmental hazards:**  
**Marine pollutant:** No

**Special precautions for user** Warning: Corrosive substances  
**Hazard identification number (Kemler code):** 80  
**Segregation groups** Alkalis  
**Stowage Category** A  
**Segregation Code** SG35 Stow "separated from" SGG1-acids

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

**Transport/Additional information:**

**DOT**  
**Quantity limitations** On passenger aircraft/rail: 5 L  
 On cargo aircraft only: 60 L

**ADR**  
**Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

**IMDG**  
**Limited quantities (LQ)** 5L  
**Excepted quantities (EQ)** Code: E1  
 Maximum net quantity per inner packaging: 30 ml  
 Maximum net quantity per outer packaging: 1000 ml

**UN "Model Regulation":** UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

\*

**15 Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**  
 Sara

**Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

**TSCA (Toxic Substances Control Act):**

All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30.

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**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**Carcinogenic categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).**Hazard pictograms**

GHS05

GHS08

GHS09

**Signal word** Danger**Hazard-determining components of labeling:**

Sodium Hydroxide

Proprietary Surfactant Blend

Disodium Trioxosilicate

**Hazard statements**

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause damage to organs.

Toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

**Precautionary statements**

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

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

[In case of inadequate ventilation] wear respiratory protection.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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Immediately call a poison center/doctor.

IF exposed or concerned: Call a poison center/doctor.

Specific treatment (see on this label).

If skin irritation or rash occurs: Get medical advice/attention.

If experiencing respiratory symptoms: Call a poison center/doctor.

Wash contaminated clothing before reuse.

Collect spillage.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

\*

## 16 Other information

**DISCLAIMER: IMPORTANT:** The information presented herein is believed to be reliable, and relates to the specific material listed and may not be valid for such material combined with other materials outside the scope of intended usage. No warranty of guarantee is made and it remains the user's responsibility to confirm by other investigation as to safe material application. The manufacturer shall not be liable for damage to person or property resulting from the use of this product. It is the customer's responsibility to investigate any potential allergic or health problems of all users.

**Department issuing SDS:** Chemical Department

**Contact:** Hydro-Chem Systems, Inc.

**Date of preparation / last revision** 05/05/2021 / 28

**\* Data compared to the previous version altered.**

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