



## Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g), Rev. 2012 and GHS Rev 03

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### Product identifier

Product form: Mixture  
Trade name: DELF Flush  
Product code: DELF Flush  
Recommended application: Heat Transfer System Flush

#### Details of the supplier of the safety data sheet

Mokon  
2150 Elmwood Ave - Buffalo, NY 14207  
716-876-9951

#### Emergency telephone number:

Tel.: 800-446-4910

### SECTION 2: Hazards identification

#### Classification of the substance or mixture

Asp. Haz 1 – H304

#### Label elements

GHS label element: This product is classified and labeled according to the Globally Harmonized System (GHS)  
Hazard pictograms: GHS08  
Signal word: Danger



#### Hazard Statements:

H304

May be fatal if swallowed and enters airways

#### Precautionary Statements

P301/310/331

IF SWALLOWED. Immediately call a POISON CONTROL CENTRE. Do not induce vomiting

#### Classification system

NFPA Rating: Health: 0, Fire:1, Reactivity:0

HMIS Rating: Health: 0, Fire:1, Reactivity:0

#### Other hazards

Other Hazards: None known

### SECTION 3: Composition/information on ingredients

Chemical Characterization: Mixture  
Classification according to GHS: Not classified  
Dangerous Components: None, non-regulated material

| Component Name          | Identification   | Classification according to GHS | %    |
|-------------------------|------------------|---------------------------------|------|
| Hydrocarbon Base Fluids | CAS #: 8042-47-5 | Not classified                  | 100% |

### SECTION 4: First aid measures

#### Description of first aid measures



|               |   |
|---------------|---|
| Inhalation:   | Supply person with fresh air and consult doctor according to symptoms.  |
| Skin contact: | Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor. |
| Eye contact   | Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary.   |
| Ingestion     | Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately.  |

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically

**SECTION 5: Firefighting measures**

|                                 |   |
|---------------------------------|---|
| Suitable extinguishing media:   | Water jet spray/foam/CO2/dry extinguisher |
| Unsuitable extinguishing media: | High volume water jet                     |

**Special hazards arising from the substance or mixture**

In case of fire the following can develop: Oxides of carbon, toxic gases

**Advice for firefighters**

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to size of fire use full protection, if necessary. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

**SECTION 6: Accidental release measures**

**Personal precautions, protective equipment and emergency procedures**

|  |  |
|--|--|
| Personal precautions protective equipment: | Not required   |
| Environmental precautions:                 | If leakage occurs, dam spillage and resolve leaks as soon as possible.<br>Prevent fluid from entering drainage systems. If fluid accidentally enters drainage system alert authorities |

**Methods and material for containment and cleaning up**

Soak up with absorbent material (e.g. universal binding agent, oil-dry, sand, diatomaceous earth) and dispose in accordance with local regulations

**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

**SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

|   |  |
|---|--|
| Precautions for safe handling:                            | No special measures required                             |
| Information about protection against explosions or fires: | No special measures required                             |
| Requirements to be met by storerooms:                     | Store in a cool dry place                                |
| General guidelines:                                       | Ensure good ventilation; avoid contact with eyes or skin |

**Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are applicable

Wash hands before breaks and at end of work

Keep away from food, drink and animal feed

Remove contaminated clothing and protective equipment before entering areas in which food is consumed

**SECTION 8: Exposure controls/personal protection**

**Control parameters**

No further data; see Section 7



#### Exposure controls:

Appropriate engineering controls:

Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully

#### Personal protective equipment:

Hand protection:

PVC, neoprene, or nitrile gloves. Gloves should be replaced immediately if damaged or worn

Eye protection:

Eye protection necessary where liquid could be splashed or sprayed

Materials for protective clothing:

PVC, neoprene, or nitrile gloves

Hand protection:

In case of repeated or prolonged contact wear gloves and use moisturizing skin cream

Respiratory protection:

Normally not required in areas with adequate ventilation. In areas with poor ventilation or in the case of likely misting use appropriate respiratory equipment

Environmental exposure controls:

See section 12

Consumer exposure controls:

PVC gloves. Neoprene or nitrile rubber gloves

Other:

Wash hands thoroughly after exposure. Do not eat drink or smoke during use. Wash contaminated clothing before use

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|  |                     |
|--|---------------------|
| Physical state:                          | Liquid              |
| Color:                                   | Light yellow, clear |
| Odor:                                    | Characteristic      |
| Odor threshold:                          | Not determined      |
| pH-value:                                | Not determined      |
| Melting point/freezing point:            | Not determined      |
| Initial boiling point and boiling range: | Not determined      |
| Flash Point:                             | >350°F (>177°C)     |
| Evaporation Rate:                        | NA                  |
| Flammability (solid, gas)                | NA                  |
| Lower explosive limit:                   | Not determined      |
| Upper explosive limit:                   | Not determined      |
| Density @ 20°C:                          | 0.85-0.87 g/ml      |
| Bulk density:                            | NA                  |
| Solubility(ies):                         | Not determined      |
| Water solubility:                        | Insoluble           |
| Partition coefficient (n-octanol/water)  | Not determined      |
| Auto-ignition temperature:               | Not determined      |
| Decomposition temperature:               | Not determined      |
| Viscosity:                               | 15 cSt @ 40°C       |
| Explosive properties                     | NA                  |
| Oxidizing properties:                    | Not determined      |

### Other information

|                           |                |
|---------------------------|----------------|
| Miscibility:              | Not determined |
| Fat solubility / solvent: | Not determined |
| Conductivity:             | Not determined |
| Surface tension:          | Not determined |
| Solvents content:         | Not applicable |

## SECTION 10: Stability and reactivity

|                                     |                                |
|-------------------------------------|--------------------------------|
| Reactivity:                         | Stable under normal conditions |
| Chemical Stability:                 | Stable under normal conditions |
| Possibility of hazardous reactions: | No dangerous reactions known   |
| Conditions to avoid:                | See section 7                  |
| Incompatible materials:             | Strong oxidizing agents, acids |



Hazardous decomposition products:

No dangerous decomposition products known

## SECTION 11: Toxicological information

Possibly more information on health effects, see Section 2 (classification).

Acute toxicity:

Not Classified

| DELFLUSH                         |          |       |           |          |       |
|----------------------------------|----------|-------|-----------|----------|-------|
| Toxicity/effect                  | Endpoint | Value | Unit      | Organism | Notes |
| Acute toxicity, by oral route:   | LD50     | >5000 | mg/kg     | Rat      |       |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg     | Rat      |       |
| Acute toxicity, by inhalation:   | LD50     | >2500 | mg/kg/4hr | Rat      |       |

Skin corrosion/irritation:

Not classified – Unlikely to cause harm to skin with brief contact, long term contact may cause dermatitis

Serious eye damage/irritation:

Not classified

Respiratory or skin sensitization:

Not classified

Repeated dose toxicity:

Not classified

Germ cell mutagenicity:

Not classified

Carcinogenicity:

Not classified

Reproductive toxicity:

Not classified

Other information:

No further information available

## SECTION 12: Ecological information

| DELFLUSH                            |          |          |            |          |        |
|-------------------------------------|----------|----------|------------|----------|--------|
| Toxicity/effect                     | Endpoint | Value    | Unit       | Organism | Notes  |
| Toxicity to fish:                   | LD50     | >100,000 | mg/kg/96hr | Trout    |        |
| Toxicity to daphnia:                |          |          |            |          | n.d.a. |
| Toxicity to algae:                  |          |          |            |          | n.d.a. |
| Persistence and degradability:      |          |          |            |          | n.d.a. |
| Bio-accumulative potential:         |          |          |            |          | n.d.a. |
| Mobility in soil:                   |          |          |            |          | n.d.a. |
| Results of PBT and vPvB assessment: |          |          |            |          | n.d.a. |
| Other adverse effects:              |          |          |            |          | n.d.a. |

## SECTION 13: Disposal considerations

### Waste treatment methods

#### For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of

#### For contaminated packing material

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld un-cleaned container.

## SECTION 14: Transport information

### Transport statements

#### UN number

DOT, ADN, IMDG, IATA:

ADR:

Non-regulated material

Non-regulated material



|  |                        |
|--|------------------------|
| <b>UN proper shipping name:</b>  |                        |
| DOT, ADR, ADN, IMDG, IATA:   | Non-regulated material |
| <b>Transport hazard class(es)</b>  |                        |
| DOT, ADR, ADN, IMDG, IATA:   | Non-regulated material |
| <b>Packaging Group</b>   |                        |
| DOT, ADR, IMDG, IATA:  | Non-regulated material |
| <b>Environmental hazards</b>   |                        |
| Marine pollutant:  | No                     |
| Special precautions for users:   | None                   |
| Transport in bulk according to Annex II:<br>of MARPOL 73/78 and IB Code UN<br>"Model Regulation" | Not applicable         |

## SECTION 15: Regulatory information

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

|                                      |  |
|--------------------------------------|--|
| SARA Hazards                         | No SARA Hazards  |
| TSCA (Toxic Substances Control Act): | All chemical substances in this mixture are included on or are exempted from listing on the TSCA Inventory for Chemical Substances   |
| Proposition 65                       | Based on available information this product does not contain any components or chemicals currently known to the State of California to cause cancer, birth defects or reproductive harm at levels which would be subject to Proposition 65 |

### Labeling requirements

|                    |                        |
|--------------------|------------------------|
| GHS label elements | Non-regulated material |
| Hazard pictograms  | Non-regulated material |
| Signal word        | Non-regulated material |

## SECTION 16: Other information

These details refer to the product as it is delivered.

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

### Any abbreviations and acronyms used in this document:

|                |  |
|----------------|--|
| AC             | Article Categories   |
| acc., acc. to  | according, according to  |
| ADR            | Accord européen relatif au transport international des marchandises Dangereuses par Route  |
| Art., Art. no. | Article number   |
| ATE            | Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)   |
| BOD            | Biochemical oxygen demand  |
| CAS            | Chemical Abstracts Service   |
| CEC            | Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants   |
| CLP            | Classification, Labeling and Packaging (REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures) |
| CTFA           | Cosmetic, Toiletry, and Fragrance Association  |
| e.g.           | for example (abbreviation of Latin 'exempli gratia'), for instance   |
| EC             | European Community   |
| ECHA           | European Chemicals Agency  |
| EEA            | European Economic Area   |
| EEC            | European Economic Community  |
| EINECS         | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS         | European List of Notified Chemical Substances  |
| EN             | European Norms   |
| EPA            | United States Environmental Protection Agency (United States of America)   |
| ERC            | Environmental Release Categories   |
| ES             | Exposure scenario  |
| Fax.           | Fax number   |
| gen.           | general  |



|            |   |
|------------|---|
| GHS        | Globally Harmonized System of Classification and Labelling of Chemicals |
| HMIS       | Hazardous Material Identification System                                |
| IARC       | International Agency for Research on Cancer                             |
| IATA       | International Air Transport Association                                 |
| IBC        | Intermediate Bulk Container   |
| IBC (Code) | International Bulk Chemical (Code)                                      |
| IC         | Inhibitory concentration  |
| LC         | lethal concentration  |
| LC50       | lethal concentration 50 percent kill                                    |
| LD50       | Lethal Dose, 50% kill   |
| n.a.       | not applicable  |
| n.av.      | not available   |
| n.c.       | not checked   |
| n.d.a.     | no data available   |
| NFPA       | National Fire Protection Association                                    |
| ppm        | parts per million   |
| UN RTDG    | United Nations Recommendations on the Transport of Dangerous Goods      |
| VOC        | Volatile organic compounds  |
| WHO        | World Health Organization   |
| wwt        | wet weight  |

These statements were made by:  
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