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# 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:MixtureTrade name:DELF 450Product code:DELF 450Recommended application:Heat Transfer Fluid

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:

Hozard pietogramou

Hazard pictograms: Signal word:



Hazard Statements: H304 Precautionary Statements P301/310/331 This product is classified and labeled according to the Globally Harmonized System (GHS) GHS08 Danger

May be fatal if swallowed and enters airways

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: Classification according to GHS: Dangerous Components: Mixture GHS08 Hydrocarbon, <22 cSt

Component Name Identification Classification according to %
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Description of first aid measures



		GHS	
Hydrocarbon	CAS #: 8042-47-5	GHS08	55-80%
	CAS #: 64742-47-8	GHS08	20-45%
		Asp. Haz 1 – H304	
Proprietary Additives	Trade Secret	Not classified	5-10%

#### **SECTION 4: 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
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

Personal precautions protective equipment: Environmental precautions:

If leakage occurs, dam spillage and resolve leaks as soon as possible. Prevent fluid from entering drainage systems. If fluid accidently 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: Information about protection against explosions or fires: Requirements to be met by storerooms: General guidelines:

No special measures required No special measures required Store in a cool dry place Ensure good ventilation; avoid contact with eyes or skin

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

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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:

#### Personal protective equipment:

Hand protection:

Eye protection: Materials for protective clothing: Hand protection:

Respiratory protection:

Environmental exposure controls: Consumer exposure controls: Other: Contain with oil absorbing material (oil dry). Remove oil absorbing material and dispose lawfully

PVC, neoprene, or nitrite gloves. Gloves should be replaced immediately if damaged or worn
Eye protection necessary where liquid could be splashed or sprayed PVC, neoprene, or nitrite gloves
In case of repeated or prolonged contact wear gloves and use moisturizing skin cream
In areas with poor ventilation or in the case of likely misting use appropriate respiratory equipment
See section 12
PVC gloves. Neoprene or nitrile rubber gloves
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: Odor: Odor threshold: pH-value: Melting point/freezing point: Initial boiling point and boiling range: Flash Point: **Evaporation Rate:** Flammability (solid, gas) Lower explosive limit: Upper explosive limit: Density @ 20°C: Bulk density: Solubility(ies): Water solubility: Partition coefficient (n-octanol/water) Auto-ignition temperature: Decomposition temperature: Viscosity: Explosive properties Oxidizing properties:

# Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content: Liquid Light yellow, clear Characteristic Not determined Not determined Not determined >430°F (>221°C) >290°F (>143°C) NA NA Not determined Not determined 0.83-0.86 g/ml NA Not determined Insoluble Not determined Not determined Not determined 4.25 cSt @ 40°C NA Not determined

Not determined Not determined Not determined Not determined Not applicable



## **SECTION 10: Stability and reactivity**

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

# SECTION 11: Toxicological information

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

Acute toxicity:

Not Classified

DELF 450					
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:

Serious eye damage/irritation: Respiratory or skin sensitization: Repeated does toxicity: Germ cell mutagenicity: Carcinogenicity: Reproductive toxicity: Other information: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact may cause dermatitis Not classified Not classified Not classified Not classified Not classified Not classified

No further information available

# **SECTION 12: Ecological information**

DELF 450					
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

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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:			llated material				
ADR:		Non-regu	llated material				
UN proper shipping name:							
	DOT, ADR, ADN, IMDG, IATA:		llated material				
Transport hazard class(es)		N					
DOT, ADR, ADN, IMDG, IATA	A:	Non-regu	Non-regulated material				
Packaging Group			lated material				
DOT, ADR, IMDG, IATA: Environmental hazards		Non-regu	Non-regulated material				
		No					
Marine pollutant:		None					
Special precautions for users: Transport in bulk according to	Anney II:	None					
of MARPOL 73/78and IB Cod							
"Model Regulation"		Not appli	cable				
Model Regulation		Not applicable					
	SECTION 1	15: Requ	latory information				
Safety, health and environm			ecific for the substance or mix	kture			
SARA Hazards:	· · · · · · · · · · · · · · · · · · ·	No SARA Hazards					
TSCA (Toxic Substances Control Act):		Hydrocarbon - <22 cSt – CAS# 72623-86-0					
		All other 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 element:		This proc	luct is classified and labeled acc	ording to the Globally			
			Harmonized System				
Hazard pictograms:		GHS08					
		Danger					
- 5		5					
Component Name	Identification		Classification according to GHS	%			
Hydrocarbon	CAS #: 72623-86-0		GHS08	90-95%			
			Asp. Haz 1 – H304				
Proprietary Additives	Trade Secret		Not classified	5-10%			

# **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

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4-	
acc., acc. to ADR	according, according to
Art., Art. no.	Accord européen relatif au transport international des marchandises Dangereuses par Route Article number
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BOD	Biochemical oxygen demand
CAS	Chemical Abstracts Service
CEC CLP	Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants 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
ĞHS	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: Mokon 2150 Elmwood Ave - Buffalo, NY 14207 716-876-9951