Page 1 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7



# 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

#### 1.1 Product identifier

Product form: Mixture
Trade name: Caldera 7
Product code: Caldera 7

Recommended application: Synthetic Silicone Heat Transfer Fluid

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the substance or mixture:

Synthetic Heat Transfer Fluid Uses advised against:

No information available at present

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

Isel Inc.

5266 Highway Avenue, Jacksonville, FL 32254

Telephone: 1-904-378-3232

Qualified person's e-mail address: info@iselinc.com

## 1.4Emergency telephone number:

Tel.: 1-904-378-3232

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

This substance is not classified according to the Globally Harmonized System (GHS)

#### 2.2 Label elements

## Labeling according to Regulation (EC) No 1272/2008 [CLP/GHS]

**Product Identifier:** 

Hazard components for labeling: Non regulated material Hazard pictograms: Non regulated material Signal Word: No signal word required

Other hazards

Other Hazards: None known

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

## 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical Characterization: Mixture
Classification according to GHS: Not classified

Dangerous Components: None, non-regulated material

Name	Product Identifier	%	Classification
Poly dimethyl siloxane	63148-62-9	10-90	Not classified
Additives	Proprietary	5-10	Not classified

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

Page 2 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7

#### 4.1 Description of first aid measures

Following Inhalation: Supply person with fresh air and consult doctor according to symptoms.

Following 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.

Following Eye contact: Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek

medical help if necessary.

Following Ingestion: Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor

immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

### Symptoms/injuries after inhalation

May be harmful by inhalation if exposure to vapor, mists or fumes resulting from thermal decomposition of the product

### Symptoms/injuries after skin contact

Unlikely to cause harm to skin on brief or occasional contact, but prolonged or repeated exposure may lead to dermatitis.

#### Symptoms/injuries after eye contact

Unlikely to cause more than transient stinking or redness if accidental eye contact occurs

#### Symptoms/injuries after ingestion

Unlikely to cause harm if accidently swallowed in small doses, though larger quantities may cause nausea and diarrhea

## 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

### **SECTION 5: Firefighting measures**

5.1 Extinguishing Media

Suitable extinguishing media: Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media: High volume water jet

## 5.2 Special hazards arising from the substance or mixture

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

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fume use protective respirator with independent air supply. According to the size of the 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

## 6.1 Personal precautions, protective equipment and emergency procedures

## Non-emergency personnel:

Ensure sufficient supply of air

Avoid contact with eyes or skin

## **Emergency responders**

Wear safety glasses, goggles or face shield

### 6.2 Environmental precautions:

If leakage occurs, dam spillage and resolve leaks as soon as possible. Prevent fluid from entering drainage systems. If fluid accidentally enters drainage systems alert authorities.

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

For Containment: Contain spill by berm usage and blocking flow with absorbent material.

For clean up: Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

#### 6.4 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



Page 3 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7



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

7.1 Precautions for safe handling

**Protective Measures:** 

Precautions for safe handling:

Avoid contact with eyes or skin. Do not breathe vapors or mists

Information about protection against explosions or fires:

Take measure to prevent the buildup of electrostatic discharge

Aerosol and dust generation preventions: Not applicable

Environmental precautions: Prevent from entering drainage systems

.

Advice on general occupational hygiene

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

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Packaging Materials: Store product closed and only in original packaging

Requirements for storage rooms and vessels: Store in a well-ventilated, cool and dry place

Hints on storage assembly

Storage Class: No data available

Materials to avoid: Do not store in plastic containers for extended periods.

7.3 Specific end use(s)

No information available at present.

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

8.1 Control parameters

Occupational exposure limits: None known

8.2 Exposure controls:

8.2.1 Appropriate engineering controls: Contain with oil absorbing material (oil dry). Remove oil absorbing

material and dispose lawfully

8.2.2 Personal protective equipment:

Eve protection:

Suitable eye protection Eye protection necessary where liquid could be splashed or sprayed

Skin Protection:

Hand protection: In case of repeated or prolonged contact wear gloves and use

moisturizing skin cream

Body Protection: PVC, neoprene, or nitrite gloves

Respiratory protection: Normally not required in areas with adequate ventilation. In areas with

poor ventilation or in the case of likely misting use appropriate

respiratoryequipment

Thermal Hazards: No thermal hazards

**8.2.3 Environmental exposure controls:** See section 6

Consumer exposure controls: PVC gloves. Neoprene or nitrile rubber gloves

**SECTION 9: Physical and chemical properties** 

**9.1 Information on basic physical and chemical properties**Physical state:

Liquid

Color: Light yellow, clear
Odor: Characteristic

Page 4 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7

Odor threshold:

pH-value:

Melting point/freezing point:

Initial boiling point and boiling range:

Flash Point ASTM D92 (COC):

Not determined
Not determined
>600°F (>315°C)
>550°F (>213°C)

Evaporation Rate: NA Flammability (solid, gas) NA

Lower explosive limit:

Upper explosive limit:

Density @ 20 C:

Not determined
0.96 g/ml

Bulk density: NA

Solubility(ies):
Water solubility:
Partition coefficient (n-octanol/water)
Not determined
Not determined

Auto-ignition temperature:

Decomposition temperature:

Viscosity:

Not determined

Explosive properties NA

Oxidizing properties: Not determined

9.2 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** 

**10.1 Reactivity:** Stable under normal conditions

**10.2 Chemical Stability:** Stable under normal conditions

**10.3 Possibility of hazardous reactions:** See section 2

**10.4 Conditions to avoid:**See section 7. Avoid contact with strong oxidizing agents

**10.5 Incompatible materials:** Strong oxidizing agents, acids

**10.6 Hazardous decomposition products:** See section 5.2 no decomposition when used as directed

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

### 11.1 Information on toxicological effects

11.1.1 **Substances:** Not applicable

11.1.2 Mixtures:

Acute oral toxicity: LD50 rat: >15,400 mg/kg

Acute inhalation toxicity: No data available

Acute dermal toxicity: LD50 rat: > 2,000 mg/kg

Irritation: Not classified – Unlikely to cause harm to harm to skin with brief contact, long term contact

may cause dermatitis

Corrosivity: Not classified

Eye damage/irritation Liquid in the eyes can be irritating, causing tearing and redness.

Sensitization: May cause slight redness. Prolonged or repeated contact may cause drying of the skin.

Repeated dose toxicity:

Mutagenicity:

Carcinogenicity:

Not classified

Not classified

Not classified



Page 5 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7

Reproductive toxicity:
Repeated does toxicity:
Not classified
Not classified
Not classified
Carcinogenicity:
Not classified
Reproductive toxicity:
Not classified
Not classified

Other information: No further information available

## **SECTION 12: Ecological information**

Caldera 3					
12.1 Toxicity/effect	Endpoint	Value	Unit	Organism	Notes
Toxicity to fish:	LD50	350	mg/l	Pleuronectes	
			96hr	platessa	
Toxicity to daphnia:	EC50	>1020	Mg/l	Mytilus edulis	n.d.a.
			96 hr		
Toxicity to algae:					n.d.a.
12.2 Persistence and					n.d.a.
degradability:					
12.3 Bio-accumulative					n.d.a.
potential:					
12.4 Mobility in soil:					n.d.a.
12.5 Results of PBT and					n.d.a.
vPvB assessment:					
12.6 Other adverse effects:					n.d.a.

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

### 13.1 Waste treatment methods

### Product/Packaging disposal:

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

### Waste Codes/ waste designations according to EWC / AVV:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

Waste treatment options: See section 6.2

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

14.1 UN number

DOT, ADN, IMDG, IATA:

ADR:

Non-regulated material

Non-regulated material

14.2 UN proper shipping name:

DOT, ADR, ADN, IMDG, IATA:

Non-regulated material

14.3 Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA: Non-regulated material

14.4 Packaging Group

DOT, ADR, IMDG, IATA:

Non-regulated material

14.5 Environmental hazards

Marine pollutant: No 14.6 Special precautions for users: None

14.7 Transport in bulk according to Annex II: of MARPOL 73/78and IB Code UN "Model Regulation"

## **SECTION 15: Regulatory information**

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

15.1.1 EU regulations

SARA Hazards No SARA Hazards

Page 6 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018 Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7

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

### 15.2 Chemical Safety Assessment:

Country	Inventory Name/Abbreviation	Status
Australia	Australian Inventory of Chemical Substances (AICS)	All components are in compliance with chemical notification requirements in Australia
Canada	Domestic Substances List (DSL/NDSL)	All components are in compliance with the Canadian EPA and are on the DSL
China	Inventory of Existing Chemicals and Substances (IECSC)	All components in this mixture are listed on the IECS
EU	REACH	Reach compliance information available on request. Contact info@iselinc.com
Japan	Existing and New Chemical Substances Inventory (ENCS)	All components in this mixture are in compliance with the chemical notification requirements of Japan
Korea	Existing Chemical List (ECL)	All components in this mixture are in compliance with the chemical notification requirements of the Republic of Korea
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	All components in this mixture are in compliance with the chemical notification requirements of the country of New Zealand
Philippines	Philippines Inventory of Chemical and Chemical Substances (PICCS)	All components in this mixture are in compliance with the chemical notification requirements of the country of the Philippines
Taiwan	Toxic Chemical Substances Control Act (TCSCA)	All components in this mixture are in compliance with the chemical notification requirements of the country of Taiwan
USA	Toxic Substances Control Act (TCSA)	See section 15.1

## **SECTION 16: Other information**

### 16.1 Indication of changes

SDS revision date 2018/07/3

## 16.2 Abbreviations and acronyms

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		
EČ	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		

Page 7 of 7

Safety data sheet according to GHS Rev 03

Revised on / Version: 07/03/2018

Replaces revision of / Version: 08/17/2017

Valid from: 07/03/2018

Caldera 7

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

## 16.3

### Classification system

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

These statements were made by:

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