

# S-OIL SEVEN DCTF

Date of the previous version: 2016-12-21

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Version 1

# **1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

### **1.1. Product identifier**

Product name S-OIL SEVEN DCTF Pure substance/mixture Mixture

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

Recommended Use

Automatic transmission fluid

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

Supplier S-OIL CORPORATION 192, Baekbeom-ro, Mapo-gu, Seoul 121-805, Korea

#### For further information, please contact:

Contact Point E-mail Address HSSEQ dolyoo@s-oil-total.com

## **1.4. Emergency telephone number**

Korea

+ 82 2 3772-5733

Not Classified

# 2. HAZARDS IDENTIFICATION

# 2.1. Classification of the substance or mixture

**GHS Classification** 

Signal Words

### 2.2. Label elements

GHS label elements, including precautionary statements

Symbol(s)	Not Classified

# 2.3. GHS Precautionary Statements

Prevention	Not Classified
Response	Not Classified
Storage	Not Classified
Disposal	Not Classified

### 2.4. Other hazards

**Physical-Chemical Properties** 

Contaminated surfaces will be extremely slippery.



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Environmental properties

Should not be released into the environment

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	-	55.0 ~ 65.0
Distillates (Petroleum), Hydrotreated Light	64742-55-8	-	10.0 ~ 15.0
Mixed Performance Additive	Mixture	-	25.0 ~ 30.0

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

#### **4. FIRST AID MEASURES**

## 4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.	
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.	
Skin contact	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.	
Inhalation	Move to fresh air.	
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.	
4.2. Most important symptoms and effects, both acute and delayed		
Eye contact	Not classified.	
	Not classified. High pressure injection of the products under the skin may have	

Skin contact	Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

# 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

## 5.1. Extinguishing media



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Suitable extinguishing media	CO2, dry chemical, dry sand, alcohol-resistant foam.	
Unsuitable extinguishing media	No information available	
5.2. Special hazards arising from	the substance or mixture	
Special Hazard	Incomplete combustion and thermolysis may produce gases of var such as carbon monoxide, carbon dioxide, various hydrocarbons, and soot. These maybe highly dangerous if inhaled in confined spa high concentration.	aldehydes
5.3. Advice for fire-fighters		
Special protective equipment for fire- fighters	Wear self-contained breathing apparatus and protective suit.	
Other information	Cool containers / tanks with water spray. Fire residues and contant extinguishing water must be disposed of in accordance with local r	
6. ACCIDENTAL RELEASE MEASU	IRES	

# 6.1. Personal precautions, protective equipment and emergency procedures

General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
6.2. Environmental precaution	<u>ns</u>
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained
6.3. Methods and material for	containment and cleaning up
Methods for containment	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g.sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13) Keep in suitable, closed containers for disposal.
Methods for containment 6.4. Reference to other sectio	material, (e.g.sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13) Keep in suitable, closed containers for disposal.
	material, (e.g.sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13) Keep in suitable, closed containers for disposal.

# 7.1. Precautions for safe handling

Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
Prevention of fire and explosion	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.



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Hygiene measures	Ensure the application of strict rules of hygiene by the pers risk of contact with the product. Regular cleaning of equipr clothing is recommended. Wash hands before breaks and handling the product. Do not use abrasives, solvents or fue with rags that have been contaminated with product. Do not contaminated rags into workwear pockets.	nent, work area and immediately after els. Do not dry hands
7.2. Conditions for safe stor	age, including any incompatibilities	
Technical measures/Storage condit	ons Keep away from food, drink and animal feedingstuffs. Kee Keep container tightly closed. Keep preferably in the origin Otherwise reproduce all indication of the regulation label o Do not remove the hazard labels of the containers (even if Design the installations in order to avoid accidental emissi seal breakage, for example) onto hot casings or electrical frost, heat and sunlight. Protect from moisture.	al container. n the new container. they are empty). ons of product (due to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/P	ERSONAL PROTECTION	
8.1. Control parameters		
Exposure limits	oil mist : 10mg/m <sub>3</sub> , for 15 minutes; oil mist : 5mg/m <sub>3</sub> , for 8	hours
Legend	See section 16.	
8.2. Exposure controls		
Occupational Exposure Controls		
Engineering Measures	Apply technical measures to comply with the occupational When working in confined spaces (tanks, containers, etc.), a supply of air suitable for breathing and wear the recomm	ensure that there is
Personal Protective Equipment		
F	f the product is used in mixtures, it is recommended that you conta protective equipment suppliers. These recommendations apply upplied.	
 (	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.	
Eye Protection	f splashes are likely to occur, wear:. Safety glasses with side-shield	ls.
Skin and body protection	Vear suitable protective clothing. Protective shoes or boots. Long s	leeved clothing.
i S V	Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. Please instructions regarding permeability and breakthrough time which are supplier of the gloves. Also take into consideration the specific local which the product is used, such as the danger of cuts, abrasion. If u nixed with other substances, and under conditions which differ from supplier of the EC approved gloves.	e provided by the conditions under sed in solution, or
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#### Environmental exposure controls

**General Information** 

The product should not be allowed to enter drains, water courses or the soil.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor		Red liquid Characteristic	
<u>Property</u> pH Boiling point/boiling range Flash point	<u>Values</u> 214 °C	<u>Remarks</u> Not applicable Not applicable	Method Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions	417 °F 853 kg/m <sup>3</sup> Negligible Not applicable 7.060 mm <sup>2</sup> /s Not explosive Not applicable Not applicable	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available @ 100 °C	Cleveland Open Cup (COC)

# 9.2. Other information

<b>10. STABILITY AND REAC</b>	ΓΙVΙΤΥ
10.1. Reactivity	
General Information	No information available.
10.2. Chemical stability	
Stability.	Stable under recommended storage conditions.
10.3. Possibility of hazardo	ous reactions
Hazardous Reactions	None under normal processing.
10.4. Conditions to Avoid	
Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
10.5. Incompatible Materia	<u>als</u>
Materials to Avoid	Strong oxidizing agents.
10.6. Hazardous Decompo	sition Products



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Hazardous Decomposition Product None under normal use.

### **11. TOXICOLOGICAL INFORMATION**

### **11.1. Information on toxicological effects**

#### Acute toxicity Local effects Product Information

Skin contact	. Not classified. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent. . LD50 > 2000mg/kg (Rabbit, Dermal), Practically non-toxic.
Eye contact	. Not classified.
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	. LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic.

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Severely hydrogenated heavy paraffinic distillate	LD50 > 5000mg/kg bw (Rat - OECD 401)	LD50 > 5000 mg/kg bw (Rabbit - OECD 402)	
Mixed Performance Additive	ATEmix > 10,000mg/kg		

#### **Sensitization**

Sensitization	Not classified as a sensitizer.	
Specific effects		
Carcinogenicity Mutagenicity Reproductive toxicity	This product is not classified carcinogenic. This product is not classified as mutagenic. This product does not present any known or suspected reproductive hazards.	
Repeated Dose Toxicity		
Subchronic toxicity	No information available.	
Target Organ Effects (STOT)		
Target Organ Effects (STOT)	No information available.	
Other information		
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).	

# **12. ECOLOGICAL INFORMATION**

## 12.1. Toxicity

LC 50	No information available.
EC 50	No information available.
IC 50	No information available.



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Effects on terrestrial organisms No information available.

# **12.2. Persistence and degradability**

**General Information** No information available.

### **12.3. Bioaccumulative potential**

Product Information	No information available.	
logPow	No information available	
Component Information	No information available.	
<u>12.4. Mobility in soil</u>		
Soil	Given its physical and chemical characteristics, the product generally shows low soil mobility.	
Air	Loss by evaporation is limited.	
Water	Insoluble. The product spreads on the surface of the water.	
12.5. Results of PBT and vPvB assessment		

**PBT and vPvB assessment** No information available.

#### **12.6. Other adverse effects**

**General Information** 

No information available

### **13. DISPOSAL CONSIDERATIONS**

#### **<u>13.1. Waste treatment methods</u>**

Waste from Residues / Unused Products	<b>s / Unused</b> Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.	
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.	
EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 01 10. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.	
14. TRANSPORT INFORM	ATION	

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated



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ADN

Not regulated

## **15. REGULATORY INFORMATION**

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

## **International Inventories**

EINECS/ELINCS TSCA KECL Legend

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory **KECL** - Korean Existing and Evaluated Chemical Substances

#### **Further information**

#### **15.2. Chemical Safety Assessment**

Chemical Safety Assessment No information available

#### **16. OTHER INFORMATION**

#### Abbreviations, acronyms

Legend Section 8			
+	Sensitizer	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction
Revision Date: Revision Note	2016-12-21 *** Indicates	updated section.	

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by heuser that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of the safety data sheet