

# DRAGON SN 0W30

Date of the previous version: 2013-09-26

Revision Date: 2014-07-18

Version 2

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

#### 1.1. Product identifier

Product nameDRAGON SN 0W30Pure substance/mixtureMixture

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

Recommended Use

lubricant

#### 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

#### 1.4. Emergency telephone number

Korea

+82 2 3772-57**6**4

### 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**GHS Classification** 

#### 2.2. Label elements

GHS label elements, including precautionary statements

Symbol(s)	Not Classified
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Signal Words Not Classified

#### 2.3. GHS Precautionary Statements

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



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#### 2.4. Other hazards

Physical-Chemical Properties

Contaminated surfaces will be extremely slippery.

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	265-157-1	>76.0
Mixed Performance Additive	Mixture	-	9.5 ~ 12.0
Viscosity Modifier Additive	Mixture	-	9.0 ~ 12.0

### 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 a	nd effects, both acute and delayed	
Eye contact	Not classified.	
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



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Notes to physician	Treat symptomatically.			
5. FIRE-FIGHTING MEASURES				
5.1. Extinguishing media				
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 varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These maybe highly dangerous if inhaled in confined spaces or at high concentration.			
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 contaminated fire extinguishing water must be disposed of in accordance with local regulations.			
6. ACCIDENTAL RELEASE MEASURES				
6.1. Personal precautions, protect	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 precautions

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 co	ntainment 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.
6.4. Reference to other sections	
Personal Protective Equipment	See Section 8 for more detail.
Waste treatment	See section 13.



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# 7. HANDLING AND STORAGE

#### 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.
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.
7.2. Conditions for safe storage,	including any incompatibilities

Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.
Materials to Avoid	Strong oxidizing agents.

#### 7.3. Specific end uses

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Exposure limits	oil mist : 10mg/m3, for 15 minutes; oil mist : 5mg/m3, for 8 hours
Legend	See section 16.
8.2. Exposure controls	
Occupational Exposure Controls	
Engineering Measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal Protective Equipment	
General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	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 Version GHS



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	instructions a	and the regulations governing their choices and uses.	
Eye Protection	If splashes ar	re likely to occur, wear:. Safety glasses with side-shie	elds.
Skin and body protection	Wear suitable	e protective clothing. Protective shoes or boots. Long	sleeved clothing.
Hand Protection	instructions re supplier of the which the pro mixed with oth	-proof gloves. Fluorinated rubber. Nitrile rubber. Plea egarding permeability and breakthrough time which a e gloves. Also take into consideration the specific loc oduct is used, such as the danger of cuts, abrasion. If ther substances, and under conditions which differ fro e EC approved gloves.	are provided by the al conditions under used in solution, or
Environmental exposure control	<u>s</u>		
General Information	The product s	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 Color		yellow To amber liquid Characteristic	
<u>Property</u> pH Boiling point/boiling range	<u>Values</u>	<u>Remarks</u> Not applicable Not applicable	<u>Method</u>
Flash point	<b>&gt; 205 °C</b> > 401 °F		Cleveland Open Cup (COC) Cleveland Open Cup (COC)
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density		No information available No information available No information available No information available	
Density Water aclubility	848 kg/m₃ Nagligible	@ 15 °C Insoluble	
Water solubility Solubility in other solvents logPow	Negligible	No information available No information available	
Autoignition temperature Viscosity, kinematic	>250 °C 10.0 mm2/s	@ 100 °C	
Explosive properties	Not explosive		
Oxidizing Properties Possibility of hazardous reactions	Not applicable Not applicable		

### 9.2. Other information

#### **10. STABILITY AND REACTIVITY**

#### 10.1. Reactivity

**General Information** 

No information available.

### 10.2. Chemical stability

Stability.

Stable under recommended storage conditions.



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10.3. Possibility of hazardous 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 el	ectricity.		
10.5. Incompatible Mater	als			
Materials to Avoid	Strong oxidizing agents.			
10.6. Hazardous Decompositio	on Products			
Hazardous Decomposition Product	None under normal use.			
11. TOXICOLOGICAL INFO	DRMATION			
11.1. Information on toxic	cological effects			
Acute toxicity Local effects Prod	uct Information			
Skin contact	. Not classified. High pressure injection of the products under the skin may has serious consequences even though no symptom or injury may be apparent.	ve very		
Eye contact	. Not classified.			
Inhalation	. Not classified. Inhalation of vapors in high concentration may cause irritation respiratory system.	of		
Ingestion	. LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic. . LD50 > 5000mg/kg (Rabbit, Dermal), Practically non-toxic.			
Acute toxicity - Component Infor	mation			
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 rep exposures (contact with contaminated clothing).	eated		



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#### **12. ECOLOGICAL INFORMATION**

#### 12.1. Toxicity

LC 50 EC 50 IC 50 >1000 mg/l, 96 hrs, Fish >1000 mg/l, 48 hrs, Daphnia >1000 mg/l, 72 hrs, Algae

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**

#### 13.1. Waste treatment methods

Waste from Residues / Unused Products	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.



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#### **14. TRANSPORT INFORMATION**

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
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
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Revision Note	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 theuser 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



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