

DRAGON SN 5W30

Date of the previous version: 2012-11-13

Revision Date: 2015-04-02

Version 2.00

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

1.1. Product identifier

Product nameDRAGON SN 5W30Pure 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	HSSEQ
E-mail Address	dolyoo@s-oil-total.com

1.4. Emergency telephone number

Korea

+82 2 6320-2090

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

Signal Words Not Classified

2.3. GHS Hazard Statements

Not classified.

2.4. GHS Precautionary Statements

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



DRAGON SN 5W30

Date of the previous version: 2012-11-13Revision Date: 2015-04-02Version 2.00

2.5. 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.. Mixture

Chemical Name	CAS-No	EC-No	Weight %
Severely hydrogenated heavy paraffinic distillate	64742-54-7	265-157-1	77.50 ~ 81.99
Mixed Performance Additive	Mixture	-	8.00~10.00
Viscosity Modifier Additive	Mixture	-	10.00~12.00
ADDITIVE 1	Mixture	-	0.01~0.50

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	
Innalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	

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



DRAGON SN 5W30

Date of the previous version: 2012-11-13	Revision Date: 2015-04-02 Version 2.0
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.
Other information 6. ACCIDENTAL RELEASE MEASU	extinguishing water must be disposed of in accordance with local regulations.
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6. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protec General Information	extinguishing water must be disposed of in accordance with local regulations. JRES tive equipment and emergency procedures Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all
6. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protec General Information	extinguishing water must be disposed of in accordance with local regulations. JRES tive equipment and emergency procedures Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all
6. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protect General Information 6.2. Environmental precautions General Information	extinguishing water must be disposed of in accordance with local regulations. JRES Etive equipment and emergency procedures 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. 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. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protect General Information 6.2. Environmental precautions General Information	extinguishing water must be disposed of in accordance with local regulations. JRES Etive equipment and emergency procedures 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. 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. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protect General Information 6.2. Environmental precautions General Information 6.3. Methods and material for cort Methods for containment 	extinguishing water must be disposed of in accordance with local regulations. JRES tive equipment and emergency procedures 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. 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. ntainment and cleaning up 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).
6. ACCIDENTAL RELEASE MEASU 6.1. Personal precautions, protect General Information 6.2. Environmental precautions General Information General Information 6.3. Methods and material for cor	extinguishing water must be disposed of in accordance with local regulations. JRES tive equipment and emergency procedures 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. 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. ntainment and cleaning up 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).

7.1. Precautions for safe handling



DRAGON SN 5W30

	2-11-13 Revision Date: 2015-04-02 V	ersion 2.00
Advice on safe handling	When using, do not eat, drink or smoke. For personal protection see s Use only in well-ventilated areas. Do not breathe vapors or spray mist 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 exporises of contact with the product. Regular cleaning of equipment, work a clothing is recommended. Wash hands before breaks and immediately handling the product. Do not use abrasives, solvents or fuels. Do not or with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.	area and y after dry hands
7.2. Conditions for safe sto	prage, including any incompatibilities	
Technical measures/Storage conditions	Keep away from food, drink and animal feedingstuffs. Keep in a bunde Keep container tightly closed. Keep preferably in the original containe Otherwise reproduce all indication of the regulation label on the new o Do not remove the hazard labels of the containers (even if they are en Design the installations in order to avoid accidental emissions of produ seal breakage, for example) onto hot casings or electrical contacts. Pr frost, heat and sunlight. Protect from moisture.	r. container. npty). uct (due to
Materials to Avoid	Strong oxidizing agents.	
7.3. Specific end uses		
8. EXPOSURE CONTROLS/P	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		
-		
8.2. Exposure controls	Apply technical measures to comply with the occupational exposure li When working in confined spaces (tanks, containers, etc.), ensure tha a supply of air suitable for breathing and wear the recommended equi	t there is
8.2. Exposure controls Occupational Exposure Controls	When working in confined spaces (tanks, containers, etc.), ensure that	t there is
8.2. Exposure controls Occupational Exposure Controls Engineering Measures	When working in confined spaces (tanks, containers, etc.), ensure that	t there is pment. priate
8.2. Exposure controls Occupational Exposure Controls Engineering Measures Personal Protective Equipment	When working in confined spaces (tanks, containers, etc.), ensure tha a supply of air suitable for breathing and wear the recommended equi If the product is used in mixtures, it is recommended that you contact the appro protective equipment suppliers. These recommendations apply to the p	t there is pment. priate product as e articulate



DRAGON SN 5W30

Date of the previous version: 20	12-11-13	Revision Date: 2015-04-02	Version 2.00
Skin and body protection	Wear suitable	protective clothing. Protective shoes or boots. Lon	ng sleeved clothing.
Hand Protection	instructions reg supplier of the which the prod mixed with othe	proof gloves. Fluorinated rubber. Nitrile rubber. Ple garding permeability and breakthrough time which gloves. Also take into consideration the specific lo uct is used, such as the danger of cuts, abrasion. er substances, and under conditions which differ f EC approved gloves.	are provided by the ocal conditions under If used in solution, or
Environmental exposure control	<u>s</u>		
General Information	The product sh	ould not be allowed to enter drains, water courses	s or the soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor		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 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	 > 210 °C > 410 °F 862kg/m³ Negligible >260 °C 10.91mm²/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) Cleveland Open Cup (COC)

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.

10.3. Possibility of hazardous reactions

Hazardous Reactions

None under normal processing.

10.4. Conditions to Avoid



DRAGON SN 5W30

ID.5. Incompatible Materials Id.5. Incompatible Materials Itaterials to Avoid Strong oxidizing agents. ID.6. Hazardous Decomposition None under normal use. Product None under normal use. Internation on toxicological effects Keute 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. Eve contact . Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system. Ingestion . D50 > 5000mg/kg (Rat, Oral), Practically non-toxic. . L50 > 5000mg/kg (Rat, Oral), Practically non-toxic. . L50 > 5000mg/kg (Ratbit, Dermail), Practically non-toxic. Bensitization Not classified as a sensitizer. Resitization Not classified as a sensitizer. Resitization Not classified as not classified as mutagenic. Kuragenicity This product is not classified as mutagenic. Kuragenicity This product does not present any known or suspected reproductive hazards. Repeated Dose Toxicity No information available. Graree Organ Effects (STOT) No information available. Rareet organ Effects (STOT) No informat	Date of the previous version: 2	012-11-13	Revision Date: 2015-04-02	Version 2.0
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ID.6. Hazardous Decomposition None under normal use. Product None under normal use. 11. TOXICOLOGICAL INFORMATION I.1. TOXICOLOGICAL INFORMATION I.1. Information on toxicological effects Keute 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. skye contact . Not classified. inhalation . Not classified. inhalation . Not classified. ingestion . LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic. . LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic. . LD50 > 5000mg/kg (Rat, Oral), Practically non-toxic. keute toxicity - Component Information . Not classified as a sensitizer. isensitization Not classified as a sensitizer. isensitization Not classified carcinogenic. kutagenicity This product is not classified carcinogenic. kutagenicity This product is not classified as mutagenic. Kutagenicity This product does not present any known or suspected reproductive hazards. kepeated Dose Toxicity No information available. araget Organ Effects (STOT) No informatio	10.5. Incompatible Mate	<u>rials</u>		
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Other adverse effects Characteristic skin lesions (pimples) may develop following prolonged and repeated	Target Organ Effects (STOT)	No information avai	able.	
	Other information			
	Other adverse effects			nged and repeated

12. ECOLOGICAL INFORMATION

12.1. Toxicity



DRAGON SN 5W30

Date of the previous version: 2012-11-13

Revision Date: 2015-04-02

Version 2.00

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.

12.4. Mobility in soil

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.

14. TRANSPORT INFORMATION

ADR/RID



DRAGON SN 5W30

Date of the previous ve	rsion: 2012-11-13	Revision Date: 2015-04-02	Version 2.00	
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	
Revision Date: Revision Note	2015-04-01			
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