SAFETY DATA SHEET

According to Canadian Hazardous Products Regulations (HPR) (SOR/2015/17)

SDS # : 087265

CARTER SH 220

Date of the previous version: 2017-08-24 **Revision Date:** *2018-05-04* **Version** *2*

1. IDENTIFICATION

Product identifier

Product name CARTER SH 220

Other means of identification

Product Code(s) 087265

Number 1JQ
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Gear oil

Uses advised against Do not use for any purpose other than the one for which it is intended.

Details of the supplier of the safety data sheet

Supplier

TOTAL CANADA INC.
220, LAFLEUR
LASALLE, QUEBEC
H8R 4C9
Tel: (514) 595-7579
Fax: (514) 595-5950

Contact Point service HSE

E-mail Address ProductSafety@total.com***

Emergency telephone number

Emergency telephone 1-800-463-3955
Company Phone Number +1 866 928 0789 (24h/24, 7d/7)
+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Skin sensitization - Category 1***

Label elements

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WARNING***

Hazard Statements
May cause an allergic skin reaction***

Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves***

Precautionary Statements - Response ***
Skin
IF ON SKIN: Wash with plenty of water and soap
If skin irritation or rash occurs: Get medical advice/attention
Take off contaminated clothing and wash it before reuse***

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant***

Unknown acute toxicity
0 % of the mixture consists of ingredient(s) of unknown toxicity***

Other information
Other hazards Harmful to aquatic life with long lasting effects***

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Chemical nature Mineral oil of petroleum origin.

Chemical Name	EC-No	CAS-No	Weight %
Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated***	605-315-2***	163149-28-8	1<3
Reaction products of 1-decene, hydrogenated***	-	68649-12-7	1<3

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10-ethyl-12-heptyl-11,13-dimethyltricosane; 8-ethyl-9,11-dimethyl-10-nonylnonadecane ***	604-767-8***	151006-60-9	1<3
Amines, C12-14-tert-alkyl***	273-279-1***	68955-53-3	0.1<0.25

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

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.

Inhalation Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.

Ingestion Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Protection of First-aiders First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Skin contact May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.***

Eye contact Not classified based on available data.***

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***

Symptoms No information available.***

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

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Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Carbon dioxide (CO_2). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

Special Hazard Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Phosphorous oxides. Nitrogen oxides (NOx). Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S. Mercaptans. Silicon dioxide.***

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Special protective equipment for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. ACCIDENTAL RELEASE MEASURES

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.

Other information See Section 12 for additional information.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

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7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling 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.

Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. 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.

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. Store at room temperature. Protect from moisture.

Materials to Avoid Strong oxidizing agents.***

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m^3, NIOSH (REL) TWA 5 mg/m^3, STEL 10 mg/m^3, ACGIH (TLV) TWA 5 mg/m^3 (highly refined). .***

Legend See section 16

Exposure controls

Engineering Measures Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.***

Individual protection measures, such as personal protective equipment

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General Information	Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.***
Eye/face protection	Safety glasses with side-shields.***
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber. Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.***
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapor/particulate. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.***

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Appearance		limpid	
Color		No information available	
Physical State @20°C		liquid	
Odor		Characteristic	
Odor Threshold		No information available	
Property	**Values**	**Remarks**	**Method**
pH		No information available	
Melting point/range		No information available	
Boiling point/boiling range		No information available	
Flash point	**237 °C** 459 °F		ASTM D 93 ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper		No information available	
Lower		No information available	
Vapor Pressure		No information available	
Vapor density		No information available	
Relative density	0.859	@ 15 °C	

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Density	859 kg/m³	@ 15 °C	
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Viscosity, kinematic	220.1 mm2/s	@ 40 °C	ASTM D445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	No information available		
Other information			
Freezing Point		No information available	

10. STABILITY AND REACTIVITY

Reactivity None under normal processing.***

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.***

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.***

Incompatible materials Strong oxidizing agents.***

Hazardous Decomposition Products Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Phosphorous oxides. Nitrogen oxides (NOx). Mercaptans. Combustion products include sulphur oxides (SO2 and SO3) and Hydrogen sulphide H2S. Silicon dioxide.***

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Symptoms No information available.***

Skin contact May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.***

Eye contact Not classified based on available data.***

Inhalation Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.***

Ingestion Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***

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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Acute toxicity - Product Information

Oral Not classified based on available data***
0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity***

Dermal Not classified based on available data***
0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity***

Inhalation Not classified based on available data***
ATEmix (inhalation-dust/mist) 233.20*** mg/l***
4.43942 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity***

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Reaction products of 1-decene, 1-dodecene and 1-octene, hydrogenated*** 163149-28-8	LD50 5000 mg/kg bw (rat - OECD 403)***	LD50 2000 mg/kg bw (rat - OECD 402)***	
Reaction products of 1-decene, hydrogenated*** 68649-12-7	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LC50 (4h) > 5000 mg/m³ (Rat - Aerosol - OECD 403)
10-ethyl-12-heptyl-11,13-dimethyltricosane; 8-ethyl-9,11-dimethyl-10-nonylnonadecane *** 151006-60-9	LD50 5000 mg/kg bw (rat) ***	LD50 2000 mg/kg bw (rat - OECD 402)***	LC50(4h) 5mg/L (rat - OECD 403)***
Amines, C12-14-tert-alkyl*** 68955-53-3	LD50 612 mg/kg (Rat)	LD50 251 mg/kg (Rabbit)	LC50(4h) 1.19 mg/l (Rat female-vapeurs)

Skin corrosion/irritation Not classified based on available data.***
Serious eye damage/eye irritation Not classified based on available data.***
Respiratory or skin sensitization May cause an allergic skin reaction.***
Germ cell mutagenicity Not classified based on available data.***
Carcinogenicity Not classified based on available data.***

Reproductive toxicity Not classified based on available data.***
Target Organ Effects (STOT) None known.***
STOT - single exposure Not classified based on available data.***
STOT - repeated exposure Not classified based on available data.***
Aspiration hazard Not classified based on available data.***

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life

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Harmful to aquatic life with long lasting effects***

Acute aquatic toxicity - Product Information

No information available

Acute aquatic toxicity - Component Information

Does not contain hazardous substances above regulatory disclosure thresholds

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Reaction products of 1-decene, hydrogenated*** 68649-12-7	EL50 (72h) > 1000 mg/l (WAF - Scenedesmus capricornutum - static - OECD 201)	LC50 (96h) > 1000 mg/l (WAF - Oncorhynchus mykiss - semi static)	EL50 (48h) > 1000 mg/l (WAF - Daphnia magna - static - OECD 202)	
10-ethyl-12-heptyl-11,13-dimethyltricosane; 8-ethyl-9,11-dimethyl-10-nonylnonadecane *** 151006-60-9				EC50(16h) 10000 mg/L***
Amines, C12-14-tert-alkyl*** 68955-53-3	EC50 (72h) 0.44 mg/l (Algae)	LC50 (96h) 1.3 mg/l (Fish)	EC50 (48h) 2.5 mg/l (Daphnia magna)	

Chronic aquatic toxicity - Product Information

No information available

Chronic aquatic toxicity - Component Information

Does not contain hazardous substances above regulatory disclosure thresholds

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Reaction products of 1-decene, hydrogenated*** 68649-12-7		NOELr(21d) 125 mg/l (Daphnia magna)		

Effects on terrestrial organisms No information available.

Persistence and degradability

No information available

Bioaccumulative potential

Product Information No information available.

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logPow No information available

Component Information Does not contain hazardous substances above regulatory disclosure thresholds.

Chemical Name	log Pow
Reaction products of 1-decene, hydrogenated*** 68649-12-7	5
Amines, C12-14-tert-alkyl*** 68955-53-3	2.9

Mobility

Soil Given its physical and chemical characteristics, the product generally shows low soil mobility

Air Loss by evaporation is limited

Water The product is insoluble and floats on water

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste from residues/unused products Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration.***

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.***

14. TRANSPORT INFORMATION

TDG Not regulated

DOT Not regulated

MEX Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

ADR/RID Not regulated

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ADN Not regulated

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	**Health Hazard** 1	**Flammability** 1	**Instability** 0	**Special hazards** -
HMIS	**Health Hazard** 1	**Flammability** 1	**Physical Hazard** 0	**Personal protection** X

Revision Date: 2018-05-04
Revision Note Initial Release

Abbreviations, acronyms
ACGIH = American Conference of Governmental Industrial Hygienists
bw = body weight
bw/day = body weight/day
EC x = Effect Concentration associated with x% response
GLP = Good Laboratory Practice
IARC = International Agency for Research of Cancer
LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals
LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals
LL = Lethal Loading
NIOSH = National Institute of Occupational Safety and Health
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOEL = No Observed Effect Level
OECD = Organization for Economic Co-operation and Development
OSHA = Occupational Safety and Health Administration
UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material
NTP = National Toxicology Program
Section 8
TWA - Time Weight Average
STEL - Short Term Exposure Limits

+	Sensitizer	*	Skin designation
C:	Carcinogen	R:	Toxic to reproduction
Ceiling:	Ceiling Limit Value		

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 the user that any use of the product for purposes other than those for which it was designed entails potential risk.The

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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