

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH)

# **CARTER EP 150**

**SDS no.** 31154

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

#### 1.1 Product identifier

Product name

: CARTER EP 150

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

Identified uses Formulation additives, lubricants and greases - Industrial General use of lubricants and greases in vehicles or machinery - Industrial General use of lubricants and greases in vehicles or machinery - Professional Use of lubricants and greases in open systems - Industrial Use of lubricants and greases in open systems - Professional Industrial gear oil

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

TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71 rm.msds-lubs@total.com

TOTAL UK LIMITED 183 Eversholt St, Kings Cross London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033 rm.gb-msds@total.co.uk

#### **Contact**

H.S.E

#### 1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number	: National Poisons Information Service (NPIS): 111
<u>Supplier</u>	
Telephone number	: Emergency telephone: +44 1235 239670



SDS no. 31154

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Not classified.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements		
Signal word	:	No signal word.
Hazard statements	:	No known significant effects or critical hazards.
Precautionary statements		
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains Amines, C10-14-tert-alkyl. May produce an allergic reaction. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.

#### 2.3 Other hazards

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do** : Prolonged or repeated contact may dry skin and cause irritation. **not result in classification** 

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

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
Amines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2	<0.1	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]



31154

SDS no. 1

		See Section 16 for the full text of the H statements declared above.
Additional information	: Mineral oil of petroleum origin Pro	duct containing mineral oil with less than 3%

DMSO extract as measured by IP 346

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures

Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.

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

Over-exposure signs/symptoms

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

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

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Our a stift a two atum a sta	· No energificate este est

Specific treatments : No specific treatment.



**SDS no.** 31154

# SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Øse dry chemical, CO₂, water spray (fog) or foam.
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising fi	rom	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	No specific data.
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	tective equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
6.3 Methods and material for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.



**SDS no.** 31154

6.4 Reference to other	: See Section 1 for emergency contact information.
sections	See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene		Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

# Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Advisory OEL	:	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

#### **DNELs/DMELs**



Product/substance	Туре	Exposure	Value	Population	Effects
Amines, C10-14-tert-alkyl	DNEL	Long term Inhalation	12.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Oral	0.35 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.2 mg/m <sup>3</sup>	General population	Local
	DNEL	Long term Inhalation	12.1 mg/m <sup>3</sup>	Workers	Local

#### **PNECs**

Product/ingredient name	Compartment Detail	Name	Method Detail
Amines, C10-14-tert-alkyl	Fresh water	0.001 mg/l	-
	Marine water	0.0001 mg/l	-
	Fresh water sediment	2.14 mg/kg dwt	-
	Marine water sediment	0.214 mg/kg dwt	-
	Soil	0.428 mg/kg dwt	-
	Sewage Treatment	0.635 mg/l	-
	Plant		

#### 8.2 Exposure controls

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
controls	contaminants.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Hydrocarbon-proof gloves

- nitrile rubber
- Fluorinated 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.

In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency



SDS no.	31154

Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Respirator with combination filter for vapour/particulate Type A/P1 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 None under normal use conditions
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	:	Liquid. [Clear]
Colour	:	Not available.
Odour	:	Characteristic.
Odour threshold	:	Not available.
рН	:	Not applicable.
Melting point/freezing point	:	Not available.
Initial boiling point and boiling range	:	Not available.
Flash point	:	Øpen cup: 227°C [ISO 2592]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapour pressure	:	Not available.
Vapor pressure 37.8°C (100°F)	:	Not available.
Vapour density	:	Not available.
Relative density	:	Ø.885 to 0.895
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Kinematic (40°C): 1.35 to 1.65 cm²/s [ISO 3104]
Explosive properties	:	Not available.
Oxidising properties	:	Not applicable
9.2 Other information		
Solubility in water		

9.2 Other ir	nformation
Solubility	in water

: Insoluble



# SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.
10.5 Incompatible materials	: Strong oxidising agents
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/substance	Result	Species	Dose	Exposure	Test
Amines, C10-14-tert-alkyl	LC50 Inhalation Vapour	Rat	0.501 mg/l	4 hours	-
•	LC50 Inhalation Vapour	Rat	157 to 231	4 hours	-
			ppm		
	LD50 Dermal	Rabbit	300 mg/kg	-	-
	LD50 Oral	Rat	500 mg/kg	-	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Product/substance	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Amines, C10-14-tert-alkyl	500	300	N/A	0.501	N/A

Irritation/Corrosion

: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.
:
: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.
: Based on available data, the classification criteria are not met.



# **CARTER EP 150**

TOTAL		SDS no. :	31154
Conclusion/Summary Teratogenicity	: Based on available data, the classification criteria are not met.		
Conclusion/Summary	: Based on available data, the classification criteria are not met.		
Specific target organ toxici			
Not available.			
<u>Specific target organ toxici</u> Not available.	<u>y (repeated exposure)</u>		
Aspiration hazard Not available.			
Information on likely routes of exposure	: Not available.		
Potential acute health effects	<u>L</u>		
Eye contact	: No known significant effects or critical hazards.		
Inhalation	: No known significant effects or critical hazards.		
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.		
Ingestion	: No known significant effects or critical hazards.		
Symptoms related to the phy	sical, chemical and toxicological characteristics		
Eye contact	: No specific data.		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	: No specific data.		
Delayed and immediate effect	ts as well as chronic effects from short and long-term exposu	<u>ire</u>	
Short term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
<u>Long term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health eff	ects		
Not available.			
Conclusion/Summary	: Not available.		
General	: Prolonged or repeated contact can defat the skin and lead to in or dermatitis.	rritation, crackin	ig and/
Carcinogenicity	: No known significant effects or critical hazards.		
Mutagenicity	: No known significant effects or critical hazards.		
Teratogenicity	: No known significant effects or critical hazards.		
- •	-		



**SDS no.** 31154

Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Other information

: Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/substance	Result	Species	Exposure	Test
Amines, C10-14-tert-alkyl	Acute EC50 0.44 mg/l Fresh water	Algae - Selenastrum capricornutum	72 hours	OECD 201
	Acute EC50 0.24 mg/l Acute EC50 63.5 mg/l Acute LC50 1.3 mg/l	Daphnia - Daphnia magna Micro-organism Fish	48 hours 30 minutes 96 hours	- - -
	Acute NOEC 0.05 mg/l Fresh water Chronic NOEC 0.078 mg/l	Algae - Selenastrum capricornutum Fish - Oncorhynchus mykiss	72 hours 96 days	OECD 201 OECD 210

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/substance	Aquatic half-life	Photolysis	Biodegradability
Amines, C10-14-tert-alkyl	-	-	Not readily

#### 12.3 Bioaccumulative potential

Product/substance	LogKow	BCF	Potential
Amines, C10-14-tert-alkyl	2.9	-	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.
Mobility in soil	: Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water. Loss by evaporation is limited

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods <u>Product</u>



Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: <del>V</del> es.
	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 The following Waste Codes are only suggestions: 13 02 05*
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ICAO/IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.



**SDS no.** 31154

# **SECTION 15: Regulatory information**

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions	: Not applicable.
on the manufacture,	
placing on the market	
and use of certain	
dangerous substances,	
mixtures and articles	

#### **Other EU regulations**

Industrial emissions : Not listed (integrated pollution prevention and control) -Air Industrial emissions : Not listed (integrated pollution prevention and control) -Water

## Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### National regulations

International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.



#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

Inventory list	
Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	<ul> <li>Japan inventory (ENCS): All components are listed or exempted.</li> <li>Japan inventory (ISHL): Not determined.</li> </ul>
New Zealand	: Not determined.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments are still required.

# **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative	Value		
--	-------	--	--

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

#### Full text of abbreviated H statements

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

#### Full text of classifications [CLP/GHS]



Acute Tox. 2, H330	ACUTE TOXICITY (inhalation) - Category 2
Acute Tox. 3, H311	ACUTE TOXICITY (dermal) - Category 3
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Eye Dam. 1, H318	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1A, H317	SKIN SENSITISATION - Category 1A
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Respiratory tract irritation) - Category 3

Date of revision	: 4/8/2021
Date of previous revision	: 1/26/2021
Version	: 2

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

#### Identification of the substance or mixture **Product definition** : Mixture : 31154 Code : CARTER EP 150 **Product name** Section 1 - Title Short title of the exposure : Formulation additives, lubricants and greases - Industrial scenario List of use descriptors : Identified use name: Formulation additives, lubricants and greases - Industrial Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC15 Sector of end use: SU03, SU10 Subsequent service life relevant for that use: No. Environmental Release Category: ERC02 **Environmental** ŝ contributing scenarios **Health Contributing** 2 scenarios **Processes and activities** : Industrial formulation of lubricant additives, lubricants and greases. Includes material transfers, mixing, large and small scale packing, sampling, maintenance. covered by the exposure scenario

### Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1:		
ATIEL-ATC SPERC 2.Ai-I.v1		
Amounts used	4	Volume manufactured/imported (tonnes/year) : 1.00E+04
		Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 300
Environment factors not	1	Local freshwater dilution factor : 10
influenced by risk management		Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Negligible wastewater emissions as process operates without water contact.
		Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 1.10E-12 Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to	:	Treat air emission to provide a typical removal efficiency of (%) : 70
reduce or limit discharges, air emissions and releases to soil		Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
1		

CARTER EP 150	- Formulation additives, lubricants and greases Industrial
Conditions and measures related to sewage treatment plant	<ul> <li>Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 0.10</li> <li>Assumed domestic sewage treatment plant flow (m³/d) : 2.00E+03</li> <li>Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day) : 958 781</li> </ul>
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario controlling worker exposure for 2: No exposure assessment presented for human health. Conditions and measures related to personal protection, hygiene and health evaluation	

Website:	:	Not applicable.
Exposure estimation and reference to its source - Environment: 1:		
Exposure assessment (environment):	:	Used ECETOC TRA model
Exposure estimation and reference to its source	1	Not available.
Exposure estimation and reference to its source - Workers: 2:		
Exposure assessment (human):	:	The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.
Exposure estimation and reference to its source	1	Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.

Environment	: Not available.
Health	: Not available.

#### **Product definition** : Mixture : 31154 Code : CARTER EP 150 **Product name** Section 1 - Title Short title of the exposure : General use of lubricants and greases in vehicles or machinery - Industrial scenario List of use descriptors : Identified use name: General use of lubricants and greases in vehicles or machinery - Industrial Process Category: PROC01, PROC02, PROC08b, PROC09 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04, ERC07 **Environmental** ż contributing scenarios **Health Contributing** ŝ scenarios **Processes and activities** : Covers general use of lubricants and greases in vehiculs or machinery in closed systems. Includes filling and draining of containers and operation of enclosed covered by the exposure machinery (including engines) and associated maintenance and storage activities. scenario

### Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: ATIEL-ATC SPERC 4.Bi.v1		
Amounts used	:	Volume manufactured/imported (tonnes/year) : 2.63E+03
		Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 300
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Negligible wastewater emissions as process operates without water contact. Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 1.10E-12 Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

CARTER EP 150	General use of lubricants and greases in vehicles or machinery - Industrial
Conditions and measures related to sewage treatment plant	<ul> <li>Estimated substance removal from wastewater via domestic sewage treatment (%):</li> <li>(%): 0.10</li> <li>Assumed domestic sewage treatment plant flow (m³/d): 2.00E+03</li> <li>Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 252 272</li> </ul>
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario controlling worker exposure for 2: No exposure assessment presented for human health. Conditions and measures related to personal protection, hygiene and health evaluation	

Website:	:	Not applicable.	
Exposure estimation and ref	Exposure estimation and reference to its source - Environment: 1:		
Exposure assessment (environment):	:	Used ECETOC TRA model	
Exposure estimation and reference to its source	:	Not available.	
Exposure estimation and reference to its source - Workers: 2:			
Exposure assessment (human):		The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.	
Exposure estimation and reference to its source	:	Not available.	

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.

Environment	: Not available.
Health	: Not available.

Professional

Identification of the subs	stance or mixture : Mixture
Code	: 31154
Product name	: CARTER EP 150
Section 1 - Title	
Short title of the exposure scenario	: General use of lubricants and greases in vehicles or machinery - Professional
List of use descriptors	<ul> <li>Identified use name: General use of lubricants and greases in vehicles or machinery - Professional Process Category: PROC01, PROC02, PROC08a, PROC08b, PROC20 Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC09a, ERC09b</li> </ul>
Environmental contributing scenarios	:
Health Contributing scenarios	:
Processes and activities covered by the exposure scenario	: Covers general use of lubricants and greases in vehiculs or machinery in closed systems. Includes filling and draining of containers and operation of enclosed machinery (including engines) and associated maintenance and storage activities.

# Section 2 - Exposure controls

Contributing scenario contro	Ilio	ng environmental exposure for 1:
ATIEL-ATC SPERC 9.Bp.v1		
Amounts used	:	Volume manufactured/imported (tonnes/year) : 5.39E+03
		Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 365
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Negligible wastewater emissions as process operates without water contact. Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-04 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 5.00E-04 Release fraction to soil from process (after typical onsite RMMs): 1.00E-03
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Prevent discharge of undissolved substance to or recover from onsite wastewater.
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

CARTER EP 150	General use of lubricants and greases in vehicles or machinery - Professional
Conditions and measures related to sewage treatment plant	<ul> <li>Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 0.10</li> <li>Assumed domestic sewage treatment plant flow (m³/d) : 2.00E+03</li> <li>Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day) : 2 545</li> </ul>
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario contro No exposure assessment pre Conditions and measures re	

Website:	Not applicable.	
Exposure estimation and reference to its source - Environment: 1:		
Exposure assessment (environment):	Used ECETOC TRA model	
Exposure estimation and reference to its source	Not available.	
Exposure estimation and reference to its source - Workers: 2:		
Exposure assessment (human):	The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.	
Exposure estimation and reference to its source	Not available.	

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.

Environment	: Not available.
Health	: Not available.

#### Identification of the substance or mixture **Product definition** : Mixture : 31154 Code : CARTER EP 150 **Product name** Section 1 - Title Short title of the exposure : Use of lubricants and greases in open systems - Industrial scenario List of use descriptors : Identified use name: Use of lubricants and greases in open systems - Industrial Process Category: PROC01, PROC02, PROC07, PROC08b, PROC09, PROC10, PROC13 Sector of end use: SU03 Subsequent service life relevant for that use: No. Environmental Release Category: ERC04 **Environmental** ŝ contributing scenarios **Health Contributing** ŝ scenarios **Processes and activities** : Covers use of lubricants and greases in open systems, including application of covered by the exposure lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mold releases, corrosion protection, slideways. Includes scenario associated product storage, material transfers, sampling and maintenance activities

### Section 2 - Exposure controls

Contributing scenario controlling environmental exposure for 1: ATIEL-ATC SPERC 4.Ci.v1		
Amounts used	:	Volume manufactured/imported (tonnes/year) : 3.81E+02
		Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use	1	Emission days (days per year) : 300
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	:	Negligible wastewater emissions as process operates without water contact. Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.0E-05 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 1.10E-12 Release fraction to soil from process (after typical onsite RMMs): 0
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Treat air emission to provide a typical removal efficiency of (%) : 70 Prevent discharge of undissolved substance to or recover from onsite wastewater. User sites are assumed to be provided with oil/water separators and for waste water to be discharged via public sewer system.
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.
Date of issue/Date of revision	1	: 8/27/2020 <b>21/2</b> 4

#### Industrial

CARTER EP 150	- Use of lubricants and greases in open systems Industrial
Conditions and measures related to sewage treatment plant	<ul> <li>Estimated substance removal from wastewater via domestic sewage treatment (%): (%): 0.10</li> <li>Assumed domestic sewage treatment plant flow (m³/d): 2.00E+03</li> <li>Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day): 36 509</li> </ul>
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario contro No exposure assessment pre	•

Website:	Not applicable.	
Exposure estimation and ref	ence to its source - Environment: 1:	
Exposure assessment (environment):	Used ECETOC TRA model	
Exposure estimation and reference to its source	Not available.	
Exposure estimation and ref	ence to its source - Workers: 2:	
Exposure assessment (human):	The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.	
Exposure estimation and reference to its source	Not available.	

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	: Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.

Environment	: Not available.
Health	: Not available.

Identification of the substance or mixture

Professional

Product definition	1	Mixture
Code	:	31154
Product name	:	CARTER EP 150
Section 1 - Title		
Short title of the exposure scenario	:	Use of lubricants and greases in open systems - Professional
List of use descriptors	:	Identified use name: Use of lubricants and greases in open systems - Professional Process Category: PROC01, PROC02, PROC08a, PROC10, PROC11, PROC13 Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08d
Environmental contributing scenarios	:	
Health Contributing scenarios	:	
Processes and activities covered by the exposure scenario	:	Covers use of lubricants and greases in open systems, including application of lubricant to work pieces or equipment by dipping, brushing or spraying (without exposure to heat), e.g. mold releases, corrosion protection, slideways. Includes associated product storage, material transfers, sampling and maintenance activities.

# **Section 2 - Exposure controls**

-	llir	ng environmental exposure for 1:
ATIEL-ATC SPERC 8.Cp.v1		
Amounts used	÷	Volume manufactured/imported (tonnes/year) : 2.24E+02
		Fraction of EU tonnage used in region : 0.1 Fraction of Regional tonnage used locally : 0.1
Frequency and duration of use	:	Emission days (days per year) : 365
Environment factors not influenced by risk management	:	Local freshwater dilution factor : 10 Local marine water dilution factor : 100
Other conditions affecting environmental exposure	÷	Negligible wastewater emissions as process operates without water contact.
		Release fraction to air from process (after typical onsite RMMs consistent with EU Solvent Emissions Directive requirements) : 5.00E-04 Release fraction to wastewater from process (after typical onsite RMMs and before (municipal) sewage treatment plant): 5.00E-04
		Release fraction to soil from process (after typical onsite RMMs): 1.00E-03
Technical conditions and measures at process level (source) to prevent release	:	Common practices vary across sites thus conservative process release estimates used.
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	:	Prevent discharge of undissolved substance to or recover from onsite wastewater.
Organisational measures to prevent/limit release from site	:	Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

CARTER EP 150	- Use of lubricants and greases in open systems Professional
Conditions and measures related to sewage treatment plant	<ul> <li>Estimated substance removal from wastewater via domestic sewage treatment (%): (%) : 0.10</li> <li>Assumed domestic sewage treatment plant flow (m³/d) : 2.00E+03</li> <li>Maximum allowable site tonnage (M<sub>Safe</sub>) based on release following total wastewater treatment removal (kg/day) : 327</li> </ul>
Conditions and measures related to external treatment of waste for disposal	: External treatment and disposal of waste should comply with applicable local and/or national regulations.
Conditions and measures related to external recovery of waste	: External recovery and recycling of waste should comply with applicable local and/or national regulations.
Contributing scenario contro No exposure assessment pre Conditions and measures rel	-

Website:	1	Not applicable.
Exposure estimation and reference to its source - Environment: 1:		
Exposure assessment (environment):	1	Used ECETOC TRA model
Exposure estimation and reference to its source	1	Not available.
Exposure estimation and ref	ere	nce to its source - Workers: 2:
Exposure assessment (human):	:	The risk Management Mesures/Operational Conditions that are identified in the Exposure Scenario are the outcome of a quantitative and qualitative assessment that covers this product.
Exposure estimation and reference to its source	1	Not available.

### Section 4 - Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Environment	: Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Further details on scaling and control technologies are provided in SPERC factsheet. If scaling reveals a condition of unsafe use (i.e., RCRs > 1), additional RMMs or a site-specific chemical safety assessment is required. For further information see www.atiel.org/reach/introduction.
Health	<ul> <li>Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. For further information see www.atiel.org/reach/introduction.</li> </ul>

Environment	: Not available.
Health	: Not available.