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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Top Tec 4100 SAE 5W-40 5 L

Art.: 9511

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

Motor oil

(GB)

Sector of use [SU]: SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC17 - Hydraulic fluids

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Use in closed process, no likelihood of exposure.

PROC 2 - Use in closed, continuous process with occasional controlled exposure

PROC 8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC 8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC 9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC20 - Heat and pressure transfer fluids in dispersive, professional use but closed systems

Article Categories [AC]: AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC 7 - Industrial use of substances in closed systems

ERC 9a - Wide dispersive indoor use of substances in closed systems

ERC 9b - Wide dispersive outdoor use of substances in closed systems

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

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LIQUI MOLY GmbH, Jerg-Wieland-Str. 4, 89081 Ulm-Lehr, Germany Phone: (+49) 0731-1420-0, Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 700 / 24 112 112 (LMR)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).



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2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)

EUH208-Contains C14-16-18 Alkylphenol. May produce an allergic reaction. EUH210-Safety data sheet available on request.

2.3 Other hazards

(GB)

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

Product can compose a film on the water surface, which can prevent oxygen exchange.

Hydrocarbons can be harmful to water.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	
Registration number (REACH)	01-2119474889-13-XXXX
Index	649-483-00-5
EINECS, ELINCS, NLP	276-738-4
CAS	72623-87-1
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Asp. Tox. 1, H304

C14-16-18 Alkylphenol	
Registration number (REACH)	01-2119498288-19-XXXX
Index	
EINECS, ELINCS, NLP	931-468-2 (REACH-IT List-No.)
CAS	
content %	0,1-<1,2
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Sens. 1B, H317
	Aquatic Chronic 4, H413

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove person from danger area.

Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.



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Do not induce vomiting. Consult doctor immediately 4.2 Most important symptoms and effects, both acute and delayed If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1. The following may occur: Irritation of the eyes With long-term contact:

Drying of the skin. Irritation of the skin. With oil mist formation: Irritation of the respiratory tract Ingestion: Nausea Gastrointestinal disturbances Vomiting

(GB)

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. 4.3 Indication of any immediate medical attention and special treatment needed n.c.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media CO2

Foam Dry extinguisher Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop: Hydrogen sulphide Oxides of carbon Oxides of nitrogen Oxides of sulphur Toxic pyrolysis products. Hot product gives off combustible vapours. 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. Cool container at risk with water. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation, and contact with eyes or skin.

If applicable, caution - risk of slipping.

Do not carry cleaning cloths soaked in product in trouser pockets.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk. Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage



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In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling 7.1.1 General recommendations

Ensure good ventilation.

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Ensure good ventuation. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use. Take measures against electrostatic charging, if appropriate. Do not heat to temperatures close to flash point.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work. Keep away from food, drink and animal feedingstuffs. Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Not to be stored in gangways or stair wells. Store product closed and only in original packing. Protect against moisture and store closed.

Protect from direct sunlight and warming.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	
Monitoring procedures:	 Draeger - Oil 10/a-P (67 28 371) 	
	- Draeger - Oil Mist 1/a (67 33 031)	
BMGV:	Other information:	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection: Tight fitting protective goggles (EN 166) with side protection, with danger of projections.

Skin protection - Hand protection: Protective gloves, oil resistant (EN 374) Recommended Protective nitrile gloves (EN 374) Permeation time (penetration time) in minutes: >480



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Minimum layer thickness in mm: 0,5

(GB)

Protective hand cream recommended.

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. With oil mist formation: Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Brown
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	n.a.
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	236 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,855 g/ml
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	86,5 mm2/s (40°C)
Viscosity:	14 mm2/s (100°C)
Explosive properties:	Product is not explosive.
Oxidising properties:	No
9.2 Other information	
Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined



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Solvents content:

(GB)

Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested.

10.2 Chemical stability Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No decomposition if used as intended.

10.4 Conditions to avoid

Protect from humidity. Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents. Avoid contact with strong acids.

10.6 Hazardous decomposition products

No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification). Top Tec 4100 SAE 5W-40 5 L Art.: 9511 Toxicity / effect Endpoin Value Unit Organism Test method Notes t Acute toxicity, by oral route: n.d.a. Acute toxicity, by dermal route: n.d.a. Acute toxicity, by inhalation: n.d.a. Skin corrosion/irritation: n.d.a. Serious eye damage/irritation: n.d.a. Respiratory or skin sensitisation: n.d.a. Germ cell mutagenicity: n.d.a. Carcinogenicity: n.d.a. Reproductive toxicity: n.d.a. Specific target organ toxicity n.d.a. single exposure (STOT-SE): n.d.a. Specific target organ toxicity repeated exposure (STOT-RE): Aspiration hazard: n.d.a. Symptoms: n.d.a. Classification according Other information: to calculation procedure.

Lubricating oils (petroleum), C						
Toxicity / effect	Endpoin	Value	Unit	Organism	Test method	Notes
	t					
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral	
					Toxicity)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute	
					Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>5,53	mg/l/4h	Rat	OECD 403 (Acute	
			_		Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant, Repeated
					Dermal	exposure may cause skin
					Irritation/Corrosion)	dryness or cracking.
Skin corrosion/irritation:					OECD 404 (Acute	Not irritant
					Dermal	
					Irritation/Corrosion)	



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Serious eye damage/irritation:	OECD 405 (Acute Eye Not irritant
	Irritation/Corrosion)
Respiratory or skin sensitisation:	OECD 406 (Skin Not sensitizising
	Sensitisation)
Respiratory or skin sensitisation:	OECD 406 (Skin No (skin contact)
	Sensitisation)
Germ cell mutagenicity:	OECD 471 (Bacterial Negative
	Reverse Mutation Test)
Carcinogenicity:	OECD 451 Negative
	(Carcinogenicity
	Studies)
Carcinogenicity:	OECD 453 (Combined Negative
	Chronic
	Toxicity/Carcinogenicity
	Studies)
Carainaganiaitu	OECD 451 Negative
Carcinogenicity:	
	(Carcinogenicity
	Studies)
Reproductive toxicity:	OECD 414 (Prenatal Negative
	Developmental
	Toxicity Study)
Reproductive toxicity:	OECD 421 Negative
	(Reproduction/Develop
	mental Toxicity
	Screening Test)
Reproductive toxicity:	OECD 414 (Prenatal Negative
	Developmental
	Toxicity Study)
Reproductive toxicity:	OECD 421 Negative
	(Reproduction/Develop
	mental Toxicity
	Screening Test)
Specific target organ toxicity -	No indications of such a
single exposure (STOT-SE):	effect.
Specific target organ toxicity -	No indications of such a
repeated exposure (STOT-RE):	effect.
Aspiration hazard:	
Aspiration nazaru.	Asp. Tox. 1

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).							
Top Tec 4100 SAE 5W-40 5 L							
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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and							Not readily biodegradable
degradability:							(Particulars of main
							substances contained)
Bioaccumulative							Concentration in
potential:							organisms possible.
Mobility in soil:							n.d.a.
Results of PBT and							n.d.a.
vPvB assessment							
Other adverse effects:							n.d.a.
Other information:							According to the recipe,
							contains no AOX.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes



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(GB)

Toxicity to fish:	NOEC/NO EL	96h	>=100	mg/l	Pimephales promelas	OECD 203 (Fish, Acute Toxicity	
						Test)	
Toxicity to fish:	LL50	96h	> 100	mg/l	Pimephales	OECD 203 (Fish,	
-				-	promelas	Acute Toxicity	
						Test)	
Toxicity to daphnia:	NOEC/NO	48h	>10000	mg/l	Daphnia magna	OECD 202	
	EL					(Daphnia sp.	
						Acute	
						Immobilisation	
						Test)	
Toxicity to daphnia:	NOEC/NO	21d	10	mg/l	Daphnia magna	OECD 211	
	EL					(Daphnia magna	
						Reproduction	
<u></u>	= = = = = = = = = = = = = = = = = = = =	401	40000	//		Test)	
Toxicity to daphnia:	EL50	48h	>10000	mg/l	Daphnia magna	OECD 202	
						(Daphnia sp.	
						Acute Immobilisation	
Tovicity to algoes	NOEC/NO	72h	>=100		Pseudokirchneriell	Test) OECD 201	
Toxicity to algae:	EL	1211	>=100	mg/l	a subcapitata	(Alga, Growth	
					a subcapitata	Inhibition Test)	
Persistence and						OECD 301 B	Not readily biodegradable
degradability:						(Ready	
aogradaomyr						Biodegradability -	
						Co2 Evolution	
						Test)	
Persistence and		28d	46	%		OECD 301 B	
degradability:						(Ready	
•						Biodegradability -	
						Co2 Evolution	
						Test)	
Bioaccumulative	Log Kow		>6				A notable biological
potential:							accumulation potential
							has to be expected
							(LogPow > 3).
Results of PBT and							No PBT substance, No
vPvB assessment		10	4.00				vPvB substance
Toxicity to bacteria:	NOEC/NO EL	10min	>1,93	mg/l		DIN 38412 T.8	

SECTION 13: Disposal considerations

13.1 Waste treatment methods

For the substance / mixture / residual amounts

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of. EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be

allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. dispose at suitable refuse site.

E.g. suitable incineration plant.

For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging



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15 01 04 metallic packaging Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements	
UN number:	n.a.
Transport by road/by rail (ADR/RID)	
UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Classification code:	n.a.
LQ (ADR 2015):	n.a.
Environmental hazards:	Not applicable
Tunnel restriction code:	
Transport by sea (IMDG-code)	
UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Marine Pollutant:	n.a
Environmental hazards:	Not applicable
Transport by air (IATA)	
UN proper shipping name:	
Transport hazard class(es):	n.a.
Packing group:	n.a.
Environmental hazards:	Not applicable
Special precautions for user	

Unless specified otherwise, general measures for safe transport must be followed.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

SECTION 15: Regulatory information

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

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

For classification and labelling see Section 2.

Observe restrictions:

General hygiene measures for the handling of chemicals are applicable. Directive 2010/75/EU (VOC):

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3

0%

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H317 May cause an allergic skin reaction.

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.



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(GB)

Asp. Tox. — Aspiration hazard Skin Sens. — Skin sensitization Aquatic Chronic — Hazardous to the aquatic environment - chronic

Any abbreviations and acronyms used in this document:

AC Article Categories acc., acc. to according, according to ACGIH American Conference of Governmental Industrial Hygienists Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the ADR International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approx. approximately Art., Art. no. Article number ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAM BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF Bioconcentration factor BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BHT BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum bw body weight CAS **Chemical Abstracts Service** Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CEC CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand Cosmetic, Toiletry, and Fragrance Association CTFA DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) dry weight dw e.g. for example (abbreviation of Latin 'exempli gratia'), for instance ЕČ European Community ECHA European Chemicals Agency EEA European Economic Area EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances ELINCS European List of Notified Chemical Substances FN European Norms United States Environmental Protection Agency (United States of America) EPA ERC **Environmental Release Categories** Exposure scenario ES etc. et cetera EU European Union EWC European Waste Catalogue Fax. Fax number general aen. Globally Harmonized System of Classification and Labelling of Chemicals GHS GWP Global warming potential Hen's Egg Test - Chorionallantoic Membrane HFT-CAM HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer



(GB) Page 11 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 19.11.2015 / 0011 Replacing version dated / version: 21.08.2015 / 0010 Valid from: 19.11.2015 PDF print date: 23.11.2015 Top Tec 4100 SAE 5W-40 5 L Art.: 9511 International Air Transport Association IATA IBC Intermediate Bulk Container IBC (Code) International Bulk Chemical (Code) Inhibitory concentration IC IMDG-code International Maritime Code for Dangerous Goods including, inclusive incl. IUCLID International Uniform ChemicaL Information Database LC lethal concentration lethal concentration 50 percent kill LC50 LCLo lowest published lethal concentration Lethal Dose of a chemical LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAEL Lowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities 10 MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. not available n.av. not checked n.c. n d a no data available NIOSH National Institute of Occupational Safety and Health (United States of America) No Observed Adverse Effective Concentration NOAEC NOAEL No Observed Adverse Effect Level NOEC No Observed Effect Concentration NOEL No Observed Effect Level **Ozone Depletion Potential** ODP OECD Organisation for Economic Co-operation and Development organic org. polycyclic aromatic hydrocarbon PAH PBT persistent, bioaccumulative and toxic PC Chemical product category ΡE Polyethylene PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential ppm parts per million PROC Process category PTFE Polytetrafluorethylene REACHRegistration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) **REACH-IT List-No.** 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature SAR Structure Activity Relationship SU Sector of use SVHC Substances of Very High Concern Telephone Tel. ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) **UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VOC Volatile organic compounds very persistent and very bioaccumulative vPvB WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK). WHO World Health Organization wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.



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No responsibility. These statements were made by: Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

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