



MATERIAL SAFETY DATA SHEET

according to Regulation (EC) 1907/2006

1. Identification of the substance/mixture and of the company/undertaking					
1.1 Product identifier		OFF ROAD SAE 10W40			
1.2 Relevant identified uses of the substance or mixture and uses advised against		Lubricant			
1.3 Details of the supplier of the safety data sheet		Nils S.p.A. Via Stazione, 30 39014 Postal (BZ) Tel. +39 0473 29 24 00 e-mail: nils@nils.it Fax: +39 0473 29 12 44 www.nils.eu Reference to safety data sheet Tel 0473 292400 schedasicurezza@nils.it			
1.4 Emergency telephone number		Nils spa: +39 0473 29 24 00 (only available during office hours) Centro Antiveleni Ospedale Niguarda Milano: 02 66101029			
2. Hazards identification					
2.1 Directive 67/548/EEC or 1999/45/EC		Not required			
Classification according to CE 1272/2008:		Not required			
2.2 Label elements Directive 67/548/EEC or 1999/45/EC		Not required			
2.3 Other hazards		none			
3. Composition/information on ingredients					
3.2 Mixtures Chemical characterization		Base oil with additives.			
Hazardous components:					
EC-No. :	CAS-No.	REACH-No.	Descrizione	%	Class. 1272/08
265-157-1	64742-54-7	01-2119484627-25	Distillates (petroleum), hydrotreated heavy paraffinic	10-25	Asp. Tox. 1, H304
283-392-8	84605-29-8	01-2119493626-26	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	1-2.5	Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315
Additional information:		Highly refined mineral oil (IP 346 DMSO extract < 3%). Free of PCB/PCT. Complete list of H hazard statements is indicated in point 16 of this MSDS.			



4. First aid measures	
<p>4.1 Description of first aid measures General</p> <p>After inhalation</p> <p>After skin contact</p> <p>After eye contact</p> <p>After ingestion</p> <p>4.2 Most important symptoms and effects, both acute and delayed</p> <p>4.3 Indication of any immediate medical attention and special treatment needed</p>	<p>No particular measures required. Immediately remove all contaminated clothing.</p> <p>Let in fresh air. In all cases of doubt, or when symptoms persist, seek medical attention.</p> <p>First, wipe dry. Wash away with soap and water and rinse. Remove contact lenses, keep eyelids open. Flush with plenty of water. In all cases of doubt, or when symptoms persist, seek medical attention.</p> <p>Do not induce vomiting - call a physician.</p> <p>None known.</p> <p>none</p>
5. Firefighting measures	
<p>5.1 Extinguishing media Suitable extinguishing media</p> <p>Unsuitable extinguishing media:</p> <p>5.2 Special hazards arising from the substance or mixture</p> <p>5.3 Advice for firefighters</p> <p>5.4 Additional information</p>	<p>Water spray jet, foam, extinguishing powder. Carbon dioxide (CO₂). Sand.</p> <p>Adapt extinguishing measures to suit the environment.</p> <p>Water</p> <p>Carbon monoxide (CO). Carbon dioxide (CO₂).</p> <p>Appropriate breathing apparatus may be required</p> <p>Do not allow the quenching water into the sewage system.</p>
6. Accidental release measures	
<p>6.1 Personal precautions, protective equipment and emergency procedures</p> <p>6.2 Environmental precautions</p> <p>6.3 Methods and material for containment and cleaning up</p> <p>6.4 Reference to other sections</p>	<p>Avoid contact with skin and eyes.</p> <p>Take the precautions customary when handling chemicals. (Special protective equipment) .</p> <p>Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.</p> <p>Take-up mechanically and remove according to regulations (Chapter 13).</p> <p>none</p>



7. Handling and storage

7.1	Precautions for safe handling	Avoid contact with skin and eyes. Provide for fresh air ventilation.
7.2	Information about protection against explosions and fires Conditions for safe storage, including any incompatibilities	Do not smoke, avoid contact with ignition sources In accordance with local official regulations. Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Observe recommended storage temperature. Avoid cooling to under 0°C. The product is water polluting. Reaction with oxidizing agents possible.
7.3	Specific end use(s)	none

8. Exposure controls/personal protection

8.1	Control parameters DNEL:	<u>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts, CAS 84605-29-8:</u> Oral DNEL long term, systemic effect 0,24 mg/kg (consumer) Dermal DNEL long term,, systemic effect 12,1 mg/kg (worker) 6,1 mg/kg (consumer) inhalation DNEL long term,, systemic effect 8,31 mg/m ³ (worker) 2,11 mg/m ³ (consumer)
	PNEC	<u>Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts, CAS 84605-29-8:</u> PNEC 0,0548 mg/kg (soil) 0,0046 mg/kg (marine water) 10,67 mg/kg (secondary poisoning) 0,004 mg/kg (fresh water) 0,045 mg/kg (sporadic release) PNEC STP 100 mg/l (-)
8.2	Exposure controls Personal protective equipment. General protective and hygiene measures	Eye protection . Immediately remove all contaminated clothing. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuff. The usual precautionary measures for the handling of chemicals have to be observed.
	Respiratory protection	No particular measures required.
	Hand protection	Use protective gloves. Nitrile: thick 0,4 mm, break trough time > 240 min. The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Eye protection	Safety glasses
	Body protection:	General protective and hygiene measures . No particular measures required.



9. Physical and chemical properties

Form:	Liquid		
Colour: :	brown		
Odour:	Characteristic		
	Value	Unit	Method
Flash point :	220	°C	
Viscosity at 40°C:	ca. 97.5	cSt	
Density (15°C) :	ca. 0.875		DIN 51757
Danger of explosion:	No explosive hazard		
Solubility in / Miscibility with Water:	Not miscible		

10. Stability and reactivity

10.1	Reactivity:	No decomposition if used according to specifications
10.2	Chemical stability:	Product is stabile during normal use
10.3	Possibility of hazardous reactions:	No dangerous reaction known
10.4	Conditions to avoid:	Stable under recommended storage and handling conditions (See section 7).
10.5	Incompatible materials:	Reaction with oxidizing agents possible.
10.6	Hazardous decomposition products:	When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.



11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

CAS	prodotto	esposizione	metodo	dose	specie
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	Oral	LD50	> 5000 mg/kg	(rat) (OECD 401)
		Dermal	LD50	> 5000 mg/kg	(rabbit) (OECD 402)
		inhalation	LC50	> 5,53 mg/l	(rat) (OECD 403)
84605-29-8	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	Oral	LD50	3100 mg/kg	(rat) (OECD 401)
		Dermal	LD50	> 2000 mg/kg	(rat) (OECD 402)

Toxicity subacute chronic:

CAS	prodotto	esposizione	metodo	dose	specie
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	Oral	LOAEL subchronic	125 mg/kg/d	(rat) (OECD 408)
		Dermal	NOAEL subchronic	> 2000 mg/kg/d	(rat) (OECD 411)
		inhalation	NOAEL subchronic	50-150 mg/m ³ 6h/d	(rat)

Primary irritant effect

Skin contact: frequent and prolonged skin contact may cause irritation and skin inflammation.

Eye contact: irritation.

Inhalation: Prolonged exposition to vapour or mist may cause irritation of respiratory tract.

Swallowing: May cause irritation of digestive tract, vomit, nausea and diarrhoea.

Sensitization

None known.

11.2 Experience on practice

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

12. Ecological information

12.1 Toxicity:

Aquatic toxicity:

64742-54-7 Distillates (petroleum), hydrotreated heavy paraffinic
 EC50 > 10000 mg/l (daphnia) (OECD 202)
 > 100 mg/l (fish) (OECD 203)
 NOEC >=100 mg/l (algae) (OECD 201)
 10 mg/l (daphnia) (OECD 211)
 >=100 mg/l (fish) (OECD 203)
84605-29-8 Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts
 EC50 21 mg/l (algae) (OECD 201)
 23 mg/l (daphnia) (OECD 202)
 4,5 mg/l (fish) (OECD 203)
 NOEC 0,4 mg/l (daphnia) (OECD 211)

12.2 Persistence and degradability

Product is not easily biodegradable, do not allow to enter the product in sewage system, surface of ground water.

12.3 Bioaccumulative potential

There are no data available on the product itself.

12.4 Mobility in soil

There are no data available on the product itself.

12.5 Results of PBT and vPvB assessment

There are no data available on the product itself.

12.6 Other adverse effects

There are no data available on the product itself.



13. Disposal considerations	
<p>13.1 Waste treatment methods Recommendation</p> <p>Waste key:</p> <p>Contaminated packaging</p>	<p>Remove in accordance with regulations. Do not empty into waters or drains.</p> <p>13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils Contaminated packaging must be emptied of all residues and may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium. In accordance with local official regulations.</p> <p>15 01 10 - packaging containing residues of or contaminated by dangerous substances</p>
14. Transport information	
<p>14.1 UN number</p> <p>14.2 UN proper shipping name</p> <p>14.3 Transport hazard class(es)</p> <p>14.4 Packing group</p> <p>14.5 Environmental hazards</p> <p>14.6 Special precautions for user</p>	<p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p> <p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p> <p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p> <p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p> <p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p> <p>The product does not constitute a hazardous substance in national / international road (ADR/RID), rail, sea (IMDG) and air transport (ICAO/IATA).</p>
15. Regulatory information	
<p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>Other regulations (Italy):</p> <p>15.2 Chemical safety assessment</p>	<p>Reg. CE 1272/2008 (CLP) Reg. CE 790/2009 (1° ATP CLP) Reg. 1907/2006 (Reach) Reg. UE 453/2010</p> <p>DPR 303/56 Igiene sul lavoro ove ancora valido D.L. n°81 del 9/4/2008 Testo Unico sulla Sicurezza con successive modifiche e attuazioni di Direttive UE DPR 336/94 Tabella malattie professionali nell'industria</p> <p>There are no data available on the product itself.</p>



16. Other information

This MSDS was prepared in accordance to DM 4/4/97 about the drafting of Safety Data Sheets, updated to Regulation 1907/2006/CE (Reach). The classification according to CE 1272/2008: (GHS/CLP) will be mandatory from 01.06.2015.

Relevant R phrases and H hazard statements in point 3:

R-Phrases of components:

GHS Hazard statements of components

H 304: May be fatal if swallowed and enters airways

H 315: Causes skin irritation

H 318: Causes serious eye damage

H 411: Toxic to aquatic life with long-lasting effects

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Last revision: 06.10.2016