

Safety Data Sheet According to Regulation (EU) No. 830/2015

Revision date:

09/06/2016 05/02/2016

Version: 2.0

Supersedes:

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

Mixture
eni i-Ride Racing 2T
: 1541
: 0009-2016
: Trade product

This product is identified as a MIXTURE. CAS / EC / Index numbers are not applicable. REACH registration is not applicable.

1.2.	Relevant identified uses	of the substance or	mixture and uses a	dvised against

1.2.1. Relevant identified uses	
Main use category	: Industrial use, Professional use, Consumer use
Use of the substance/mixture	: Lubricant for two-stroke engines
	Do not use the product for any purposes that have not been advised by the manufacturer.
Function or use category	: Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet ENI S.p.A.

P.le E. Mattei 1 - 00144 ROMA Italy Tel (+39) 06 59821 www.eni.com

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Competent person responsible for the Safety Data Sheet (Reg. EC nr. 1907/2006): SDSInfo@eni.com

1.4.	Emergency telephone number	
Emerge	ency number	: CNIT +39 0382 24444 (24h) (IT + EN)
		Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Safety Data Sheet According to Regulation (EU) No. 830/2015

Product code:

Revision date: 09/06/2016

1541

Version: 2.0

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2.	Label elements	
Labell	ing according to Regulation	(EC) No. 1272/2008 [CLP]
EUH pl	hrases	: EUH208 - Contains reaction mass of: dicalcium (bis(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)dihydroxide tri-calcium (tris(2-hydroxy-5- tetra-propenylphenylmethyl)methylamine)tri-hydroxide poly[calcium ((2-hydroxy- 5-tetra-propenyl-phenylmethyl)methylamine)hydroxide]. May produce an allergic reaction
Child-r	esistant fastening	: No
Tactile	warning	: No
Other	:	
Genera	al advice	: "Use suitable gloves when handling product. Dispose of used/leftover product and package properly. Protect the environment."
2.3.	Other hazards (not releva	nt for classification)

Physical/chemical	: This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.
Health	: Any material in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.,Do not wait for symptoms to develop.
Environment	: None.
Contaminants	: None.
(air contaminants or other substances)	
Other hazards not contributing to the classification	: If the product is handled or used at high temperature, contact with hot product or vapours may cause burns. In exceptional cases (i.e prolunged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. See Heading 16. Any material in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.

This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substance Not applicable

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Product code:

1541

Revision date: 09/06/2016

Version: 2.0

3.2. Mixture	
Composition/information on ingredients	: Synthetic base oil Synthetic base stock (ester) Petroleum distillates Mineral base oil, severely refined (Diluent for additives) Additives
Hazardous ingredients and/or with	All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3) : See table

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics < 2% aromatics (Component)	(CAS No) N/A (EC no) 926-141-6 (EC index no) N/A (REACH-no) 01-2119456620-43	25 - 29,9	Asp. Tox. 1, H304
Mineral base oil, severely refined (Additive, For identification of the substance, see note [*])		3 - 4,9	Not classified
Polyolefin polyamine succinimide (Additive)	(CAS No) N/D (EC no) Polimero (EC index no) N/A (REACH-no) N/A	2 - 2,4	Aquatic Chronic 4, H413
reaction mass of: dicalcium (bis(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)dihydroxide tri- calcium (tris(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)tri-hydroxide poly[calcium ((2-hydroxy-5-tetra-propenyl- phenylmethyl)methylamine)hydroxide] (Additive)	(CAS No) N/D (EC no) 420-470-4 (EC index no) 020-003-00-0 (REACH-no) 01-0000016710-77	0,5 - 0,9	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

[*] Note: this product may be formulated with one or more of the following severely refined mineral base oils (not classified as hazardous): CAS 101316-72-7/EC 309-877-7/REACH Reg. # 01-2119489969-06-xxxx; CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-01-4/EC 265-101-6/REACH Reg. # 01-2119488707-21-xxxx; CAS 72623-87-1/EC 276-738-4/REACH Reg. # 01-211947889-13-xxxx; CAS 64742-71-8/EC 265-176-5/REACH Reg. # 01-2119485040-48-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx. All these substances have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Full text of H-phrases: see section 16

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: In case of spontaneous vomiting, transport the victim to a hospital, to verify the possibility that the product has been aspired into the lungs.	
First-aid measures after inhalation	: In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention.	
First-aid measures after skin contact	: Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice.	
First-aid measures after eye contact	: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation persists, seek medical advice.	

Safety Data Sheet According to Regulation (EU) No. 830/2015

Product code:

1541

Revision	date:	09	/06	/2016
ICC VISION	uate.	00	,	/ 2010

Version: 2.0

First-aid measures after ingestion	: Do not induce vomiting to avoid aspiration into the lungs. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital. If the casualty is inconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.
4.2. Most important symptoms and	l effects, both acute and delayed
Symptoms / injuries (general indications)	: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect.
Symptoms/injuries after inhalation	: This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists. In these cases overexposure to vapours may cause irritation to airways, nausea and dizziness.
Symptoms/injuries after skin contact	 Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect.
Symptoms/injuries after eye contact	: Contact with eyes may cause a light transient irritation.
Symptoms/injuries after ingestion	: Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Taking into account the taste of the product, however, ingestion of dangerous quantites is very unlikely.
Symptoms/injuries upon intravenous	: No information available.
administration Chronic symptoms	: None to be reported, according to the present classification criteria.
4.3. Indication of any immediate m	nedical attention and special treatment needed
	age ONLY under qualified medical supervision.
SECTION 5: Firefighting measu	ires
5.1. Extinguishing media	
Suitable extinguishing media	: Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. Other extinguishing gases (according to regulations).
Unsuitable extinguishing media	: Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.
5.2. Special hazards arising from t	he substance or mixture
Fire hazard	: This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.
Explosion hazard	: In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m ³ of air.
Combustion products	: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NOx, H2S and SOx (harmful/toxic gases).,Oxygenated compounds (aldehydes, etc.),CaOx
5.3. Advice for firefighters	
Firefighting instructions	: Shut off source of product, if possible. If possible, move containers and drums away from danger area. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
Special protective equipment for firefighters	: Personal protection equipment for firefighters (see also sect. 8). Self-contained breathing apparatus.
Other information	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.
SECTION 6: Accidental release	measures
6.1. Personal precautions, protecti	ve equipment and emergency procedures

: Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so (e.g. electricity, sparks, fires, flares). Avoid direct contact with General measures released material. Avoid accidental sprays on hot surfaces or electrical contacts. Keep upwind.

Safety Data Sheet According to Regulation (EU) No. 830/2015 Product code:

1541

Revision date: 09/06/2016

Version: 2.0

6.1.1. For non-emergency personne	4
Protective equipment	: See Section 8.
Emergency procedures	: Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.
6.1.2. For emergency responders	
Protective equipment	: Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Work helmet. Respiratory protection: If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used. a half or full-face respirator with filter(s) for organic vapours (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure.
Emergency procedures	: Notify local authorities according to relevant regulations.
C.D. Environmental susceptions	

6.2. Environmental precautions

- - -

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.3. Methods and	material for containment and cleaning up
For containment	: Soil. Contain spilled liquid with sand, earth or other suitable absorbents (non- flammable). Recover free liquid and waste materials in suitable waterproof and oil- resistant containers. Clean contaminated area. Dispose of according to local regulations. Large spillages may be cautiously covered with foam, if available, to limit fire risk. Do not use direct jets. When inside buildings or confined spaces, ensure adequate ventilation. Water: In case of small spillages in closed waters, contain product with floating barriers or other equipment. If possible, large spillages in open waters should be contained with floating barriers or other suitable mechanical means. Collect recovered product and other materials in suitable tanks or containers for recovery or safe disposal. Dispose of in accordance with relevant local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.
Other information	Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

For more information regarding protective equipment see section " Exposure control/personal protection".

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling	: Ensure that all relevant regulations regarding handling and storage facilities of flammable products are followed. Do not use compressed air for filling, discharging, or handling operations. Keep away from heat/sparks/open flames/hot surfaces. Use and store only outdoors or in a well-ventilated area. During transfer and mixing operations, ensure that all equipment is correctly grounded. Avoid the build-up of electric charges. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned.		
Handling temperature	: This product can be handled at ambient temperatures.		
Hygiene measures	: Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not re-use clothes, if they are still contaminated. Keep away from food and beverages.		

Safety Data Sheet According to Regulation (EU) No. 830/2015 Product code:

Revision date: 09/06/2016

1541

Version: 2.0

	including any incompatibilities
Storage conditions	 Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.
Incompatible products	: Keep away from: strong oxidants.
Storage temperature	: This product can be stored at ambient temperatures.
Storage area	: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
Packages and containers:	: If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.
Packaging materials	: For containers, or container linings use materials specifically approved for use with this product. Recommended materials for containers, or container linings use mild steel, stainless steel. Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

3.1. Control para	neters	
Hydrocarbons, C11-	C14, n-alkanes, iso-alkanes, cyclics < 2% aroma	atics (N/A)
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	600 mg/m ³ (Hydrocarbon mixtures (RCP) aliphatic hydrocarbons C9-C15)
Germany	TRGS 900 Limitation of exposure peaks (mg/m ³)	1200 mg/m ³ (Hydrocarbon mixtures (RCP) aliphatic hydrocarbons C9-C15)
Italy	OEL TWA (mg/m³)	600 mg/m ³ (Ref.: Hydrocarbon mixtures (RCP) aliphatic hydrocarbons C9-C15, Germany, AGS 2011)
Italy	OEL STEL (mg/m ³)	1200 mg/m ³ (Ref.: Hydrocarbon mixtures (RCP) aliphatic hydrocarbons C9-C15, Germany, AGS 2011)
USA - ACGIH	ACGIH TLV®-TWA (mg/m ³)	None to be reported.
Mineral base oil, sev	verely refined	
Austria	MAK (mg/m³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium	Limit value (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (langvarig) (mg/m³)	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (kortvarig) (mg/m ³)	2 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary	AK-érték	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
The Netherlands	MAC TGG 8h (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-ED (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-EC (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Nivågränsvärde (NVG) (mg/m3)	1 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Kortidsvärde (KTV) (mg/m3)	3 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

Product code:

Revision date: 09/06/2016

Safety Data Sheet According to Regulation (EU) No. 830/2015

United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Canada (Quebec)	VECD (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Canada (Quebec)	VEMP (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-TWA (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-STEL (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (STEL) (mg/m ³)	10 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - OSHA	OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	\approx mg/kg bodyweight/day
Hydrocarbons, C11-C14, n-alkanes, is	o-alkanes, cyclics < 2% aromatics (N/A)
DNEL/DMEL (additional information)	
Additional information	Not applicable
PNEC (additional information)	
Additional information	Not derived - Not classified as hazardous for environment
Mineral base oil, severely refined	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	= 5,4 mg/m ³ /day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	= 1,2 mg/m ³ /day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Monitoring methods	: Monitoring procedures should be chosen according to the indications set by
	national authorities or labour contracts.,Refer to relevant legislation and in any case to the good practice of industrial hygiene.
Note	: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.
8.2. Exposure controls	
Appropriate engineering controls	: Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content and flammability.
Personal protective equipment (for industrial or professional use)	: Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.



Safety Data Sheet According to Regulation (EU) No. 830/2015

Product code:

1541

Revision date: 09/06/2016

Version: 2.0

mild soap, do not use solvents or other irritant products which have a defatting

effect on the skin., Do not re-use clothes, if they are still contaminated.

Hand protection	: When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.
Eye protection	: When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield). If necessary, refer to national standards or to the EN 166 standard.
Skin and body protection	: Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Antistatic non-skid safety shoes or boots, chemical resistant.
Respiratory protection	: Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: in presence of oil mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols. In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with filter for hydrocarbon vapours. (EN 136/140/145). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145)
Thermal hazard protection	: None in normal use conditions.
Environmental exposure controls	: Do not discharge the product into the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills.
Consumer exposure controls	: No special requirements necessary, if handled at room temperature.
8.3. Hygiene measures	
General protective and hygienic measure	es : Avoid contact with skin and eyes,Do not breathe vapours or mists.,Do not clean hands with dirty or oil-soaked rags.,Do not keep dirty rags in the overall pockets.,Do not drink, eat or smoke with dirty hands.,Wash hands with water and

SECTION 9: Physical and	chemical properties	
9.1. Information on basic p	hysical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid, bright & clear.	
Molecular mass	: Not applicable for mixtures	
Colour	: Amber.	
Odour	: Slight odour of petroleum.	
Odour threshold	: There are no data available on the preparation/mixture itself.	
рН	: Not applicable	
Relative evaporation rate (butylacetate=1)	: Not determined	
Melting point	: Pour point \leq -40 °C (ASTM D 97)	
Freezing point	: Not applicable	
Boiling point	: ≥ 200 °C (ASTM D 1160)	
Flash point	: ≥ 95 °C (ASTM D 93)	
Critical temperature	: Not applicable for mixtures	
Self ignition temperature	: ≥ 300 °C (DIN 51794)	
09/06/2016	EN (English)	8/16

Safety Data Sheet According to Regulation (EU) No. 830/2015 Product code:

1541

Revision date: 09/06/2016

Version: 2.0

Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: ca 0,02 kPa (20 °C, EN 13016)
Critical pressure	: Not applicable for mixtures
Relative vapour density at 20 °C	: > 1 (according to composition)
Relative density	: No data available
Density	: 869 kg/m³ (15 °C) (ASTM D 4052)
Solubility	: Water: Immiscible and insoluble
Log Pow	: Not applicable for mixtures
Log Kow	: Not applicable for mixtures
Viscosity, kinematic	: 10,2 mm²/s (100 °C) (ASTM D 445)
Viscosity, dynamic	: No data available
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: LEL \geq 45 g/m ³ (Aerosol)
9.2. Other information	
VOC content	: = 25 % (EU, CH)

The above data (9.1 - 9.2) are typical values and do not constitute a specification.

SECTION 10: Stability and reactivity

10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. A mixture with nitrates or other strong oxidisers (e.g. chlorates, perchlorates, liquid oxygen) may create an explosive mass. Sensitivity to heat, friction or shock cannot be assessed in advance.

10.4. Conditions to avoid

Keep away from strong oxidizers. Keep away from open flames, hot surfaces and sources of ignition. Avoid the build-up of electrostatic charge.

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. See also Section 16, "Other information".

SECTION 11: Toxicological information			
11.1. Information on toxicological eff	11.1. Information on toxicological effects		
Acute toxicity	 Not classified (Based on available data, the classification criteria are not met) (according to composition) 		
eni i-Ride Racing 2T			
LD50 oral rat	\geq 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.		
LD50 dermal rabbit	\geq 2000 mg/kg bodyweight (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.		
LC50 inhalation rat (mg/l)	\geq 5 mg/l/4h (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.		

Safety Data Sheet According to Regulation (EU) No. 830/2015

Product code:

1541

Revision date: 09/06/2016

ATE (vapours)	5,000 mg/l/4h
ATE (dust,mist)	5,000 mg/l/4h
Hydrocarbons, C11-C14, n-alkanes,	iso-alkanes, cyclics < 2% aromatics (N/A)
LD50 oral rat	≥ 5000 mg/kg bodyweight (OECD 401; ExxonMobil, 1989)
LD50 dermal rat	\geq 2000 mg/kg bodyweight (OECD 402; CEPSA Quimica, 1989)
LC50 inhalation rat (mg/l)	\geq 5 mg/l/4h (OECD 403) (Read across: C11-C13, < 2% arom; ExxonMobil, 2005)
LC50 inhalation rat (Vapours - mg/l/4h)) > 4000 mg/l/4h
Mineral base oil, severely refined	
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rat	> 5000 mg/kg bodyweight (OECD 402)
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
	(according to composition) Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect.
	pH: Not applicable
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
	(according to composition)
	pH: Not applicable
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
	(according to composition) Contains a sensitizer (reaction mass of: dicalcium (bis(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)dihydroxide tri-calcium (tris(2-hydroxy-5- tetra-propenylphenylmethyl)methylamine)tri-hydroxide poly[calcium ((2-hydroxy 5-tetra-propenyl-phenylmethyl)methylamine)hydroxide]). Amount contained in the product: $0,1 \div 0,99 \%$ m/m max.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
	(according to composition) This product does not contain any significant amounts of substances classified as mutagenic by the EU (in any case < 0.1 % wt)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
	(according to composition) None of the components of this product are listed as carcinogen by NTP, IARC, OSHA, EU or others. All the mineral base oils contained in this product have a value < 3 % wt of DMSC extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3
Hydrocarbons, C11-C14, n-alkanes,	iso-alkanes, cyclics < 2% aromatics (N/A)
NOAEL (chronic,oral, animal/male,2 years)	= 0,138 mg/l/6h/day (NOAEC - OECD 453) (Read across: Stoddard solvent; NTF 2004)
NOAEL (chronic,oral, animal/female,2 years)	> 2,2 mg/l/6h/day (NOAEC - OECD 453) (Read across: Stoddard solvent; NTP, 2004)
Reproductive toxicity	 Not classified (Based on available data, the classification criteria are not met) (according to composition) This product does not contain any significant amounts of substances classified a Toxic for Reproduction by the EU (in any case < 0.1 % wt)
Specific target organ toxicity (single exposure)	: Not classified (Based on available data, the classification criteria are not met) (according to composition)
Specific target organ toxicity (repeated exposure)	 Not classified (Based on available data, the classification criteria are not met) (according to composition)
Mineral base oil, severely refined	
LOAEL (oral,rat,90 days)	125 mg/kg bodyweight/day (OECD TG 408)
Aspiration hazard	 Not classified (Based on available data, the classification criteria are not met) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)
eni i-Ride Racing 2T	
Viscosity, kinematic	10,2 mm ² /s (100 °C) (ASTM D 445)
VISCOSILY, NITEHIALIC	10,2 1111-75 (100 C) (A3110 443)

eni	i-Ride	Racing	2T
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Safety Data Sheet According to Regulation (EU) No. 830/2015

1541

Revision date: 09/06/2016	sion date: 09/06/2016
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otential Adverse human health effects nd symptoms	 Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. Contact with eyes may cause temporary reddening and irritation.
Other information	: None.
SECTION 12: Ecological infor	mation
L2.1. Toxicity	
Ecology - general	: According to the components, and by comparison with other products of the same type and composition, it is expected that this product has a toxicity for aquatic organisms > 100 mg/l, and must not be regarded as dangerous to the environment. An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - air	: This product has a low vapour pressure. A significant exposure may happen only i the product is used at high temperature, or in case of sprays and mists.
Ecology - water	: This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
eni i-Ride Racing 2T	
LC50 fish 1	\geq 100 mg/l (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
EC50 Daphnia 1	\geq 100 mg/l (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
ErC50 (algae)	\geq 100 mg/l (Calculated data). This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
Additional information	This product contains one or more components with a branched alkylphenol impurity that is highly toxic to aquatic organisms (see section 3). The components containing the impurity have been tested by the manufacturer and are only weakly toxic to aquatic organisms (R53 - H 413). Therefore the data in Section 3 for the alkylphenol impurity should not be directly used to classify the product for aquatic toxicity.
Hydrocarbons, C11-C14, n-alkanes	s, iso-alkanes, cyclics < 2% aromatics (N/A)
LC50 fish 1	≥ 1000 mg/l (LL50, 72 h; Oncorhynchus mykiss, OECD 203) (QSAR, CONCAWE 2010)
EC50 Daphnia 1	≥ 1000 mg/l (EL50, 48 h; OECD 202) (SRC, 1994)
EC50 other aquatic organisms 1	≥ 10000 mg/l (LL50, 48 h; Chaetogammarus marinus, OECD 202) (TNO, 1991)
ErC50 (algae)	\geq 1000 mg/l (EL50, 72 h; Pseudokirchneriella subcapitata, OECD 201) (SRC, 1994)
NOEC (acute)	= 1000 mg/l (NOELR, 72 h; Pseudokirchnerella subcapitata, OECD 201) (SRC, 1994)
NOEC (chronic)	= 0,173 mg/I (NOELR, 28 d; Oncorhynchus mykiss) (QSAR, CONCAWE, 2010)
Mineral base oil, severely refined	
LC50 fish 1	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)

eni i-Ride Racing 2T		
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.	
Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics < 2% aromatics (N/A)		
Persistence and degradability	The product should be considered as "Not persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1).	
Biodegradation	> 69 % 28 d (OECD 301 F) (Shell, 1997)	

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Revision date: 09/06/2016

Version: 2.0

Mineral base oil, severely refined	
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
12.3. Bioaccumulative potential	
eni i-Ride Racing 2T	
Log Pow	Not applicable for mixtures
Log Kow	Not applicable for mixtures
	o-alkanes, cyclics < 2% aromatics (N/A)
Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.
12.4. Mobility in soil	
,	
	o-alkanes, cyclics < 2% aromatics (N/A)
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.
12.5. Results of PBT and vPvB assess	sment
eni i-Ride Racing 2T	
This substance/mixture does not meet the	PBT criteria of REACH, annex XIII.
This substance/mixture does not meet the	e vPvB criteria of REACH, annex XIII.
Results of PBT-vPvB assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Component	
Hydrocarbons, C11-C14, n-alkanes, iso- alkanes, cyclics < 2% aromatics (N/A)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII.
Mineral base oil, severely refined ()	This substance/mixture does not meet the PBT criteria of REACH, annex XIII. This substance/mixture does not meet the vPvB criteria of REACH, annex XIII. This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
12.6. Other adverse effects	
Other adverse effects	: None.
Additional information	 This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suite for the specific purpose.
SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods	: Do not dispose of the product, either new or used, by discharging into sewers,
	tunnels, lakes or water courses. Deliver to a qualified official collector. Dispose o empty containers and wastes safely.
Sewage disposal recommendations	: Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.
Waste disposal recommendations	: European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral- based non-chlorinated engine, gear and lubricating oils). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product, alterations and contaminations.
Additional information	: Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned and declared safe.
Ecology - waste materials	: The product as it is does not contain halogenated substances.

EURAL code (EWC) : 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

in accordance with ADR / KID / ADNR / IMDG /

14.1. UN number

Not regulated for transport

Safety Data Sheet According to Regulation (EU) No. 830/2015 Product code:

1541

Revision date: 09/06/2016

14.2. UN proper shipping name	
Proper Shipping Name	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (UN)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: None.
14.6. Special precautions for user	
Special transport precautions	: None.
- Overland transport	
Transport regulations (ADR)	: Not subject
- Transport by sea	
Transport regulations (IMDG)	: Not subject
Limited quantities (IMDG)	: Not applicable
MFAG-No	:
- Air transport	
Transport regulations (IATA)	: Not subject
- Inland waterway transport	
Transport regulations (ADN)	: Not subject
- Rail transport	

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Product code:

Revision date: 09/06/2016

1541

Version: 2.0

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Authorisations and/or restrictions on use (Annex XVII):

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	eni i-Ride Racing 2T - Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics < 2% aromatics
3.b. Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics < 2% aromatics - reaction mass of: dicalcium (bis(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)dihydroxide tri-calcium (tris(2-hydroxy-5-tetra- propenylphenylmethyl)methylamine)tri- hydroxide poly[calcium ((2-hydroxy-5-tetra-propenyl- phenylmethyl)methylamine)hydroxide]
3.c. Hazard class 4.1	Polyolefin polyamine succinimide

No ingredients are included in the REACH Candidate list (> 0,1 % m/m).

Contains no REACH Annex XIV substances.

Relevant EU Legislation	 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). (et sequens). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace) Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding) Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances) Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds)
VOC content	: = 25 % (EU, CH)

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.

National laws on classification and labeling of dangerous substances/preparations (Adoption of Directive 67/548/CE and subsequent Adaptations to Technical Progress - ATP, and Directive 1999/45/CE).

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE). Relevant national laws on prevention of water pollution.

Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).

National adoption of Directives 75/439/CEE - 87/101/CEE concerning disposal of used oils.

France

Maladies professionelles (F)	 RG 36 - Affections provoquées par les huiles et graisses d'origine i synthèse 	ninérale ou de
Germany		
VwVwS Annex reference	: Water hazard class (WGK) (D) 1, low hazard to waters (Classificat VwVwS, Annex 4)	ion according to
WGK remark	: Classification based on the components in compliance with Verwal wassergefährdender Stoffe (VwVwS)	tungsvorschrift
09/06/2016	EN (English)	14/16

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Product code:

1541

Revision date: 09/06/2016

Version: 2.0

: Not applicable.
: LGK 12 - Non-flammable liquids in non-flammable packages
 Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.
: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
: TRGS 400: Risk Assessment for Activities involving Hazardous Substances TRGS 401: Risks resulting from skin contact - identification, assessment, measures TRGS 900: Occupational Exposure Limits
: Emergency management guidelines for the storage of flammable liguids must be

followed

15.2. Chemical safety assessment

A chemical safety assessment has been carried out for the following components of this mixture:

Hydrocarbons, C11-C14, n-alkanes, iso-alkanes, cyclics < 2% aromatics Mineral base oil, severely refined

reaction mass of: dicalcium (bis(2-hydroxy-5-tetra-propenylphenylmethyl)methylamine)dihydroxide tri-calcium (tris(2-

hydroxy-5-tetra-propenylphenylmethyl)methylamine)tri-hydroxide poly[calcium ((2-hydroxy-5-tetra-propenyl-phenylmethyl)methylamine)hydroxide]

SECTION 16: Other information

Indication of changes: CLP Signal word.

Abbreviations and acronyms:

	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.
	N/A = Not applicable. N/D = Not available ACGIH = American Conference of Governmental Industrial Hygienists API = American Petroleum Institute ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CSR = Chemical Safety Report
	DNEL = Derived No Effect Level DMEL = Derived Minimum Effect Level EC50 = Effective Concentration, 50% EL50 = Effective Loading, 50 %
	EPA = Environmental Protection Agency IC50 = Inhibition Concentration, 50% LC50 = Lethal Concentration, 50% LD50 = Lethal Dose, 50%
	LL50 = Lethal Loading, 50% LOAEL = Low Observed Adverse Effects Level NOEL = No Observed Effects Level NOAEL = No Observed Adverse Effects Level
	OECD = Organization for Economic Cooperation and Development PNEC = Predicted No-Effect Concentration PBT = Persistent, Bioaccumulative, Toxic
	STOT = Single Target Organ Toxicity (STOT) RE = (Single Target Organ Toxicity) Repeated exposure (STOT) SE = (Single Target Organ Toxicity) Single exposure TLV®TWA = Threshold Limit Value® – Time-Weighted Average
	TLV®STEL = Threshold Limit Value® – Short Term Exposure Limit UVCB = Substance of Unknown or Variable composition, Complex reaction products or Biological materials vPvB = very Persistent, very Bioaccumulative WAF = Water Accommodated Fraction
Data sources	: This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
Training advice	: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.

Safety Data Sheet According to Regulation (EU) No. 830/2015

Revision date: 09/06/2016

Version: 2.0

Other information	: Do not use the product for any purposes that have not been advised by the manufacturer.
Full text of H- and EUH-ph	rases:
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, Category 1
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H413	May cause long lasting harmful effects to aquatic life
EUH208	Contains . May produce an allergic reaction

SDS EU (REACH Annex II) eni 2015

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product