



ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 09/05/2011

Revision date: 09/05/2011

Version: 1.00

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

1.1. Product identifier

Chemical type : Mixture
Trade name : ENI i-Ride MOTO (SAE 20W-50)
Product code : 1538

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

1.2.1. Relevant identified uses

Intended for general public
Industrial/Professional use spec. : Non-dispersive use
Use of the substance/preparation : Lubricant for internal combustion engines
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

Contact:
Refining & Marketing Division
Via Laurentina 449 00142 ROMA Italy
Tel (+39) 06 59881 Fax (+39) 06 59885700

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

1.4. Emergency telephone number

Emergency number : CNIT +39 0382 24444 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

2.1.2. Classification according to Directive 67/548/EEC or 1999/45/EC

2.1.3. Adverse physicochemical, human health and environmental effects

None to be reported, according to the present EU regulations.

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

2.3. Other hazards

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 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 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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Composition/information on ingredients : All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Dir. 94/69/CE - Reg (CE) 1272/2008), Additive mixture in synthetic and mineral base oils

Hazardous ingredients : None to be reported, according to the present EU regulations.

Full text of R-, H- and EUH-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. See also Point 4.3.

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. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Do not put ice on the burn.

First-aid measures after eye contact : Rinse eyes thoroughly for at least 10 minutes. Keep eyelids well apart. If irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.

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 unconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs.

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

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.

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Symptoms/injuries after skin contact	: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, due to a defatting effect. Contact with hot product may cause thermal burns.
Symptoms/injuries after eye contact	: Contact with eyes may cause a light transient irritation. Contact with hot product or vapours may cause burns.
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 quantities is very unlikely.
Symptoms/injuries upon intravenous administration	: No information available.

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

If there is any suspicion of inhalation of H₂S (hydrogen sulphide). The casualty should be sent immediately to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary. Seek medical attention in all cases of serious burns.

SECTION 5: Firefighting measures

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.
Unsuitable extinguishing media	: Do not use water jets. They could cause splattering, and spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H ₂ S and SO _x . Oxygenated compounds (aldehydes, etc.). CaO _x . ZnO _x . PO _x .
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 air.
Reactivity	: This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.
General measures	: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment. Avoid accidental sprays on hot surfaces or electrical contacts.

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: See Section 8.
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 released material. 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.

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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. If necessary heat resistant and insulated. 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. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Work helmet. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H₂S). a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures

: Notify local authorities according to relevant regulations.

6.2. Environmental precautions

Do not let the product flow into sewers, water courses or underground spaces. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

For containment

: Soil. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. Water. Confine the spillage. Remove from surface by skimming or suitable absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations.

Other information

: Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities. 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.

6.4. Reference to other sections

Refer to chapter 16.

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. Avoid contact with skin. Do not smoke. Do not ingest. Do not breathe fume/ mist/ vapours. 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. Empty 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. Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

Handling temperature

: 0-65 °C

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

7.2. Conditions for safe storage, 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. If the product is supplied in containers: Keep only in the original container or in a suitable container for this kind of product. Keep containers tightly closed and properly labelled.
- Incompatible products : Keep away from: strong oxidants.
- Storage temperature : 0-55 °C
- 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.
- 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

8.1. Control parameters

ENI i-Ride MOTO (SAE 20W-50)		
Austria	MAK (mg/m ³)	5 mg/m ³ (mineral oil mists)
Belgium	Limit value (mg/m ³)	5 mg/m ³ (mineral oil mists)
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	5 mg/m ³ (mineral oil mists)
Italy - Portugal - USA ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³ (mineral oil mists)
Spain	VLA-ED (mg/m ³)	5 mg/m ³ (mineral oil mists)
Spain	VLA-EC (mg/m ³)	10 mg/m ³ (mineral oil mists)
The Netherlands	MAC TGG 8H (mg/m ³)	5 mg/m ³ (mineral oil mists)
United Kingdom	WEL TWA (mg/m ³)	5 mg/m ³ (mineral oil mists)
United Kingdom	WEL STEL (mg/m ³)	10 mg/m ³ (mineral oil mists)

8.2. Exposure controls

- Appropriate engineering controls : Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".
- Personal protective equipment (for industrial or professional use) : Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.



ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Hand protection	: When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. 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. Materials that are presumably adequate: nitrile or PVC with a protection index > 5 (permeation time > 240 mins).
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, if necessary heat resistant and insulated.
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. 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.
Thermal hazard protection	: If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.
Environmental exposure controls	: Do not discharge the product into the environment.
Consumer exposure controls	: No special requirements necessary, if handled at room temperature.

8.3. Hygiene measures:

General protective and hygienic measures	: 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 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.
--	---

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, bright & clear.
Molecular mass	: Not applicable for mixtures
Colour	: Yellow-brown.
Odour	: Light odour of petroleum.
Odour threshold	: There are no data available on the preparation/mixture itself. ppm
pH	: Not applicable.
Melting point	: Pour point ≤ -21 °C (ASTM D 97)

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Solidification point	: No data available
Boiling point	: > 200 °C (ASTM D 1160)
Flash point	: > 200 °C (ASTM D 93)
Relat. evapor. rate comp. to butylacetate	: Negligible.
Flammability (solid, gas)	: No data available
Explosive limits	: LEL ≥ 45 g/m ³ (Aerosol)
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: < 900 kg/m ³ (15 °C) (ASTM D 4052)
Solubility	: Water: immiscible and insoluble
Log Pow	: Not applicable for mixtures
Self ignition temperature	: > 300 °C (DIN 51794)
Decomposition temperature	: No data available
Viscosity	: kinematic: 18,7-20,7 mm ² /s (100 °C) (ASTM D 445) dynamic: ≤ 9500 cP (-15 °C) (ASTM D 5293)

9.2. Other information

VOC content : = 0 % (EU, CH)

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

10.5. Incompatible materials

Strong oxidants.

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

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 effects

ENI i-Ride MOTO (SAE 20W-50)	
LD50 oral rat	> 2000 mg/kg (Calculated data).
LD50 dermal rat	> 2000 mg/kg (Calculated data).
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (Calculated data).

Potential Adverse human health effects and 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 of the components of this product are listed as carcinogen by NTP, IARC, OSHA, EU or others. This product does not contain any significant amounts of substances classified as mutagenic by the EU (in any case < 0.1 % wt). This product does not contain any significant amounts of substances classified as Toxic for Reproduction by the EU (in any case < 0.1 % wt). The product is not classified as a sensitizer according to the criteria set by the EU. This product does not contain any significant amounts of substances classified as sensitizers (in any case < 0.1 % wt).

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : An uncontrolled release to the environment may 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. 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.

Ecology - air : 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.

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 MOTO (SAE 20W-50)	
LC50 fishes 1	> 100 mg/l (Calculated data).
LC50 other aquatic organisms 1	> 100 mg/l (Calculated data).
EC50 Daphnia 1	> 100 mg/l (Calculated data).

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

12.2. Persistence and degradability

ENI i-Ride MOTO (SAE 20W-50)

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 MOTO (SAE 20W-50)

Log Pow

Not applicable for mixtures

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ENI i-Ride MOTO (SAE 20W-50)

Results of PBT-vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects

: None.

Other 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 suited for the specific purpose.

SECTION 13: Disposal considerations

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.

Waste disposal recommendations

: European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05. This 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 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.

SECTION 14: Transport information

No dangerous good in sense of transport regulations.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

VOC content

: = 0 % (EU, CH)

ENI i-Ride MOTO (SAE 20W-50)

Safety Data Sheet

according to Regulation (EC) No. 453/2010

15.1.2. National regulations

EURAL code	: 13 02 05*
Maladies professionnelles	: RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse
Water hazard class (WGK)	: 1 (according to composition)
WGK remark	: Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)
Storage class (LGK)	: LGK 12 - Non-flammable liquids in non-flammable packages
VbF class	: Not applicable.
Regional legislation	: 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 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. National adoption of Directive 75/439/CEE concerning disposal of used oils. Relevant national laws on prevention of water pollution.

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes	: Fire hazard.
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.
Abbreviations and acronyms	: Complete text of the R-phrases quoted in this Safety Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product. None.
Other information	: Laboratory tests on animals have shown that engine oils undergo changes during usage, and risks increase, compared with fresh oils. Therefore, it is very important to follow the above mentioned precautionary measures also with used oils. Do not use the product for any purposes that have not been advised by the manufacturer. In that case, the user could be exposed to unforeseeable dangers. 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 H ₂ S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. If this possibility is suspected, a specific assessment of inhalation risks from the presence of H ₂ S in confined spaces must be made, to help determine prevention measures and controls (i.e. PPE) appropriate to local circumstances, and adequate emergency procedures. If there is any suspicion of inhalation of H ₂ S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

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.