



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 1 of 10

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

Product group: Engine oils

Motoröl

Engine oil

Huile moteur

Further trade names

Engine oil 5W-30 dexos2

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

Use of the substance/mixture

Used in the automobile industry

1.3. Details of the supplier of the safety data sheet

Company name: Adam Opel AG

Place: D 65423 Rüsselsheim

Telefax: +49-6142/ 749-503

e-mail: OPEL-helpdesk@ifz-berlin.de

Responsible Department: IFZ Ingenieurbüro und Consulting GmbH

Telefon: +49 30 2904897-10

Telefax: +49 - 30 / 2904897-20

1.4. Emergency telephone number:

Internationale Hotline: +49 6131 19240

United Kingdom +44 870 600 626 / 0870 600 6266

Further Information

Reference list

Apply Safety data sheet to the following products:

Part-No.	Catalogue-No.	Product name
93165611	19 42 009	Engine oil, 20 L
93165612	19 42 010	Engine oil, 205 L
95599581	19 42 069	Engine oil, 5 L

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is not classified as hazardous according to Directive 1999/45/EC.

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

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

2.2. Label elements

Precautionary statements

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P262	Do not get in eyes, on skin, or on clothing.

Special labelling of certain mixtures

EUH210	Safety data sheet available on request.
--------	---

2.3. Other hazards

When the highly pressurized product comes in contact with the skin, the danger exists that it can enter the body through the skin. Consult a doctor in this case, also when no obvious injury is determinable. Although unused motor oil is not considered toxic, used motor oil can be carcinogenic, and therefore, should be handled with care.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 2 of 10

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
	Base oil – not specified	30 - 65 %
	Asp. Tox. 1; H304	
204-539-4	Diphenylamine	< 0.1 %
122-39-4	T - Toxic, N - Dangerous for the environment R23/24/25-33-50-53	
612-026-00-5	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT RE 2, Aquatic Acute 1, Aquatic Chronic 1; H331 H311 H301 H373 ** H400 H410	

Full text of R, H and EUH phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of feeling unwell: Obtain medical attention. Show this safety data sheet to the doctor in attendance. If unconscious, place the person in the recovery position and seek medical advice immediately. Do not administer liquids to the unconscious person and avoid vomiting. Protection is needed for the First Aider.

After inhalation

When high concentrations of oil mist, smoke or vapour are inhaled, e.g. in the case of aerosol formation: Move out of dangerous area. Move to fresh air. Lay the affected person down, and keep her or him warm and calm. In case of irregular breathing or respiratory arrest: Oxygen or artificial respiration, if needed. Upon irritation of the respiratory tract or mucous membranes (e.g. coughing), indisposition or prolonged exposure, consult a doctor.

After contact with skin

Take off all contaminated clothing immediately. Wash contaminated skin areas thoroughly with soap and water. Do not use solvents or thinners. If skin irritation persists, call a physician.

When injected under the skin, consult a doctor immediately. You must check whether surgical action is indicated. A hand surgeon must be consulted as soon as possible if the injuries are in the hand area.

After contact with eyes

Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. Remove contact lenses after the first 1 - 2 minutes and continue flushing. If eye irritation persists, consult a specialist.

After ingestion

Do not induce vomiting. Rinse mouth. Don't drink. If symptoms persist, call a physician. Never give anything by mouth to an unconscious person. Aspiration of the liquid while swallowing incorrectly or vomiting can lead to serious pneumonia caused by chemicals.

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

Large concentrations of vapour or oil mist can be irritating to the mucous membranes and respiratory tract. Temporary irritation of the eyes possible.

Prolonged skin contact can lead to defatting of the skin or to irritation. Main symptoms: erythema. Dry skin. Skin contact with the product may cause acne.

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 3 of 10

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

Symptomatic treatment (decontamination and vital functions). If necessary, contact poison centre.

Splashes through the skin of a highly pressurised product are serious medical emergencies (high rates of amputations)! The injured area should be investigated with an X-ray. The injuries initially do not seem serious, but within a few hours the tissue swells, discolours and is extremely painful, together with strong sub-cutaneous necrosis. The thorough and extensive opening of the wound and the tissue underneath it is required to reduce tissue loss. The high pressure enables the product to penetrate many layers of tissue.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), foam, dry chemical or water mist.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

The product is flammable but not readily ignited.

Risk of bursting if heated. Cool containers / tanks with sprayed water.

Incomplete incineration and thermolysis produces toxic gases. In the event of a fire, the following substances may be formed: carbon monoxide (CO), carbon dioxide (CO₂), nitrogen oxides (NO_x).

Formation of organic crack products in the event of excess heating in a vacuum. The combustion gases are generally to be classified as poisonous.

5.3. Advice for firefighters

Do not breathe in the vapours and combustion gases. In the event of fire, wear self-contained breathing apparatus.

Additional information

Prevent extinguishing water used by the fire department, or any other forms of the diluted product, from ending up in surface water or drinking water reservoirs. Do not let product enter drains. Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Remove all sources of ignition. Do not smoke. Slipping hazard due to leakage. Avoid contact with skin and eyes. Use personal protective equipment. In case of insufficient ventilation, wear suitable respiratory equipment.

6.2. Environmental precautions

The spread of the product is to be prevented by oil barriers or dikes. Avoid subsoil penetration. The product floats on (waste) water. Insoluble in water. Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system.

6.3. Methods and material for containment and cleaning up

Contain the product immediately by taking suitable action. Spilled or leaking material is to be soaked up with non-flammable absorbent materials (sand, soil, diatomaceous earth) and put in containers. In the event of large-scale leakage, pump into suitable and properly labeled containers. Mop up with floating binding agents. Separate where possible using oil separators. Remove the product from the water surface by skimming or suitable adsorption products. If necessary, use suitable dispersion agents in flowing water by agreement with the authorities.

Keep in suitable, closed containers for disposal. Larger amounts: Recovery or recycling, if possible. Disposal in accordance with the official regulations.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 4 of 10

6.4. Reference to other sections

Suitable protective equipment: See section 8.
Dispose of as described in section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of aerosol. Do not breathe in vapours or spray mist. Keep away from sparks and flames. Take precautionary measures against static discharges. Keep away from combustible material. Avoid prolonged and intensive skin contact. Wash hands before breaks and immediately after handling the product.

Advice on protection against fire and explosion

Empty containers can contain flammable and explosive vapours. Keep product and empty container away from heat and sources of ignition. Contact with combustible material may cause fire. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). Preparation may charge electrostatically: always use grounding wire when transferring from one container to another. Do not use the product in the vicinity of electrical systems. Electrical systems and equipment must comply with the regulations.

Further information on handling

Avoid spillage and leakage due to the risk of slipping. When handling the product, follow hygiene and safety precautions.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Facilities must be planned in such a way that contamination of the soil and groundwater is excluded. Protect waste water treatment plants. Keep containers sealed and dry. Keep away from heat and sources of ignition. Only use hydrocarbon-resistant containers, caulk, pipelines,...
Keep at temperatures below 40 °C.

Advice on storage compatibility

Avoid contact with strong oxidising agents.
Keep away from food and drink.

Further information on storage conditions

Keep in a well-ventilated place.

7.3. Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
122-39-4	Diphenylamine	-	10		TWA (8 h)	WEL
		-	20		STEL (15 min)	WEL

Additional advice on limit values

Exposure limit(s) mist : 5 mg/m³ (8 h); 10 mg/m³ (0.25 h)

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Follow the maximum workplace concentration values. When the concentration in the air is over the maximum occupational exposure



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 5 of 10

limit, an approved respiratory protection apparatus must be worn.

Protective and hygiene measures

Keep the work place clean. When using, do not eat, drink, or smoke. Wash hands before breaks and at the end of the workday. Do not bring used product in contact with the eyes or skin. Wash contaminated skin areas thoroughly with soap and water. Do not use solvents or thinners. Articles impregnated with the product are to be disposed of immediately (cloth, paper, absorbent material). Take off all contaminated clothing immediately. Remove and wash contaminated clothing before re-use. Eye wash fountains and safety showers must be easily accessible.

Eye/face protection

Use protective goggles when transferring. (EN 166) / facial protection

Hand protection

Wear oil-resistant, protective gloves during prolonged or repeated contact. Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer. Penetration time of the glove material: No data available. Use tested protective gloves.

Skin protection

Wear suitable protective clothing. Protection cream can help to protect the skin surface. It should be applied before use.

When handling drums: safety shoes and protective suit, resistant to hydrocarbons.

Respiratory protection

Not required when area is well ventilated. When the concentration in the air is over the maximum occupational exposure limit, an approved respiratory protection apparatus must be worn. Respirator with combination filter for vapour/particulate. (EN 14387)

Environmental exposure controls

Should not be released into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	clear, amber
Odour:	characteristic

	Test method
pH-Value:	n.a.

Changes in the physical state

Melting point:	-36 °C
Initial boiling point and boiling range:	> 320 °C 101.3 kPa
Pour point:	No data available.
Flash point:	205 °C see below
Sustaining combustion:	No data available

Flammability

Solid:	No data available.
Gas:	No data available.

Explosive properties

The product is not explosive.

Lower explosion limits:	No data available.
Upper explosion limits:	No data available.
Ignition temperature:	No data available.

Auto-ignition temperature



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 6 of 10

Solid: No data available.

Gas: No data available.

Decomposition temperature: n.d.

Oxidizing properties

None.

Vapour pressure:
(at 20 °C) < 1 hPaDensity (at 15.6 °C): 0.851 g/cm³

Water solubility: insoluble

Solubility in other solvents

miscible with most organic solvents

Partition coefficient: logPow: > 6 (mineral oil)

Viscosity / kinematic:
(at 40 °C) 69 mm²/s

Vapour density: >1 (air = 1)

Evaporation rate: No data available.

9.2. Other information

Test norm Flash point: P/M Pensky-Martens closed cup

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under proper storage and handling. Does not polymerize.

10.3. Possibility of hazardous reactions

No dangerous reactions occur under normal storage conditions and in normal use.

10.4. Conditions to avoid

To avoid thermal decomposition, do not overheat. Keep away from open flames, hot surfaces, and sources of ignition.

10.5. Incompatible materials

Avoid contact with strong oxidising agents. Store separately from: acids and bases.

10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. See also section 5.

Further information

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

There is a slight acute systemic toxic effect. Excessive exposure can cause eye, skin or respiratory tract irritation.

LD50/oral/rat: 2000 mg/kg

LD50/dermal/rabbit: 2000 mg/kg



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 7 of 10

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
122-39-4	Diphenylamine	oral	ATE	100 mg/kg		
		dermal	ATE	300 mg/kg		
		inhalative vapour	ATE	3 mg/l		
		inhalative aerosol	ATE	0.5 mg/l		

Irritation and corrosivity

Due to the low volatility, inhalation at room temperature is improbable. In high temperatures or mechanical atomisation, vapours or oil mist may be formed. Large concentrations of vapour or oil mist can be irritating to the mucous membranes and respiratory tract.

Temporary irritation of the eyes possible. Mild eye irritation.

Short term or occasional contact with the skin will probably not cause skin irritation. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

Swallowing large amounts can be detrimental to health. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration of the liquid while swallowing incorrectly or vomiting can lead to serious pneumonia caused by chemicals.

STOT-single exposure

No data available.

Severe effects after repeated or prolonged exposure

Prolonged exposure to vapours in concentrations over the occupational exposure limit can lead to health problems. Inhalation of mist can lead to lung damage.

Characteristic skin damage (pustules) can develop after continued and repeated exposure (contact with contaminated clothing).

Carcinogenic/mutagenic/toxic effects for reproduction

This product consists of highly refined mineral oils and other components that are not carcinogenic. (IP 346 DMSO extract: < 3 %) - IARC

Although unused motor oil is not considered toxic, used motor oil can be carcinogenic, and therefore, should be handled with care. Wash hands before breaks and immediately after handling the product. Wash contaminated skin areas thoroughly with soap and water.

SECTION 12: Ecological information

12.1. Toxicity

No data is available on the product itself.

12.2. Persistence and degradability

Not readily biologically degradable. The "mineral oil" component of the new product is essentially biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation is not assumed.

Partition coefficient (n-octanol/water) logPow: > 6 (Mineral oil, Typical for the product.)

12.4. Mobility in soil

Non-volatile.

Insoluble in water. The product floats on (waste) water.

Mobility in the ground is low.

12.5. Results of PBT and vPvB assessment

The product does not contain any substance which meets the PBT criteria (persistent/bio-accumulative/toxic) or the vPvB criteria (very persistent/very bio-accumulative).



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 8 of 10

12.6. Other adverse effects

May form an oil film that cause the oxygen content to fall, thus harming the aquatic ecosystem.
Danger to drinking water already by leakage of small amounts into the subsoil.

Further information

Should not be released into the environment. Do not allow material to contaminate ground water system. May not end up in waste water or open waters.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Disposal in accordance with the official regulations. Do not empty into drains. Must be incinerated in a suitable incineration plant authorised under the Environmental Protection Act. Where possible recycling is preferred to disposal or incineration. Contact waste disposal services.

Waste disposal number of waste from residues/unused products

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils
Classified as hazardous waste.

Waste disposal number of used product

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils
Classified as hazardous waste.

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Unclean packing materials, just as the empty containers: Disposal in accordance with the official regulations.
Packaging can be sent for recycling after being emptied and cleaned.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: not regulated

14.2. UN proper shipping name: not regulated

14.3. Transport hazard class(es): not regulated

14.4. Packing group: not regulated

Other applicable information (land transport)

Not classified as dangerous regarding transport regulations.

Inland waterways transport (ADN)

14.1. UN number: not regulated

14.2. UN proper shipping name: not regulated

14.3. Transport hazard class(es): not regulated

14.4. Packing group: not regulated

Other applicable information (inland waterways transport)

Not classified as dangerous regarding transport regulations.



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 9 of 10

Marine transport (IMDG)

14.1. UN number:	not regulated
14.2. UN proper shipping name:	not regulated
14.3. Transport hazard class(es):	not regulated
14.4. Packing group:	n.d.a.

Other applicable information (marine transport)

Not classified as dangerous regarding transport regulations.

Air transport (ICAO)

14.1. UN number:	not restricted
14.2. UN proper shipping name:	not restricted
14.3. Transport hazard class(es):	not restricted
14.4. Packing group:	n.d.a.

Other applicable information (air transport)

Not classified as dangerous regarding transport regulations.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not classified as dangerous regarding transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

SVHC: No data available.

National regulatory information

Additional information

The national regulations have to be complied with as necessary.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

Section: 1 - 16

Abbreviations and acronyms

n.a. = not applicable

n.d. = not determined

n.d.a. = no data available

VOC = Volatile organic compounds

SVHC = substance of very high concern

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

GHS = Globally Harmonized System

CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Engine oil

Print date: 25.02.2016

Part-no. S93165612

Page 10 of 10

Relevant R phrases (number and full text)

- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 33 Danger of cumulative effects.
- 50 Very toxic to aquatic organisms.
- 53 May cause long-term adverse effects in the aquatic environment.

Relevant H and EUH statements (number and full text)

- H301 Toxic if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H331 Toxic if inhaled.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- EUH210 Safety data sheet available on request.

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical data sheet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)