

Safety Data Sheet

according to Regulation (EC) No 1907/2006

NORC AKTIV-HD db SAE 10W-50

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

1.1. Product identifier

NORC Aktiv db SAE 10W-50

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

Use of the substance/mixture

Motor oil

1.3. Details of the supplier of the safety data sheet

Company name: Nano Oil Refining Company NORC GmbH
 Street: Am Kaiserkai 69
 Place: D-20457 Hamburg I
 e-mail: info@norc-germany.de
 Internet: www.norc-germany.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Additional advice on labelling

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
276-738-4	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	15 - 20 %
72623-87-1		
649-483-00-5	Asp. Tox. 1; H304	
	Polyolefin-polyaminsuccinimid, Polyol	1 - 5 %
147880-09-9	R53	
	Aquatic Chronic 4; H413	

Full text of R and H phrases: see Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Self-protection of the first aider.

Change contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink large quantities of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container label.

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

No data available

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

Caution if victim vomits: Risk of aspiration!

Aspiration hazard: Immediately get medical attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguishing materials should be selected according to the surrounding area.

Carbon dioxide (CO₂). Dry extinguishing powder. Foam.

Extinguishing media which must not be used for safety reasons

High power water jet.

5.2. Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance itself, combustion products, resulting gases:

Carbon dioxide (CO₂). Carbon monoxide. Sulfur oxides. Phosphorus oxides. Hydrogen sulphide (H₂S).

5.3. Advice for firefighters

Carbon black In case of fire: Wear self-contained breathing apparatus.

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Waste disposal according to official state regulations.

Use water spray/stream to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High slip hazard because of leaking or spilled product.

Wear suitable protective clothing.

Wear respiratory protection when in the presence of vapour, dust, and aerosols.

6.2. Environmental precautions

Do not empty into drains or the aquatic environment.
Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the assimilated material according to the section on waste disposal.

6.4. Reference to other sections

In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Protect skin by using skin protective cream. Wash hands before breaks and at the end of work.
Conditions to avoid: aerosol or mist generation.

Advice on protection against fire and explosion

No special measures are necessary.
When using do not smoke.
Fire class: B (German Industry Norms (DIN) / European Norms (EN): EN2)

Further information on handling

No data available

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.
Keep away from heat. Keep/Store only in original container.

Advice on storage compatibility

Do not store together with: Food and fodder, Oxidizing agents.

Further information on storage conditions

If product enters soil, it will be mobile and may contaminate groundwater Keep away from heat.

7.3. Specific end use(s)

Motor oil

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

No data available

8.2. Exposure controls

Occupational exposure controls

No data available

Protective and hygiene measures

When using do not eat, drink or smoke.
Change contaminated clothing.
Wash hands before breaks and at the end of work.
Protect skin by using skin protective cream.
Keep away from food, drink and animal feedingstuffs.
Do not breathe vapour.

Respiratory protection

Wear respiratory protection when in the presence of vapour, dust, and aerosols.

Hand protection

Wear suitable gloves.

Eye protection

In case of fine dispersion/spraying/misting: Wear eye/face protection.

Skin protection

In case of fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: yellow-brown
 Odour: characteristic

	Test method
pH-Value:	not applicable DIN 51369

Changes in the physical state

Pourpoint::	~ -24 °C DIN ISO 3016
Flash point:	>200 °C DIN ISO 2592

Lower explosion limits:	Literatur
Upper explosion limits:	Literatur

Ignition temperature: No data available

Vapour pressure: <0,1 hPa calculated.
 (at 20 °C)

Density (at 15 °C): ~0,87 g/cm³ DIN 51757

Water solubility: practically insoluble
 (at 20 °C)

Solubility in other solvents

Soluble in hydrocarbons (mineral oil.)

Viscosity / kinematic: 17-19,5 mm²/s DIN 51562
 (at 100 °C)

Solvent separation test: No data available

Solvent content: none/none Solvents

9.2. Other information

none/none

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

No thermal decomposition if properly stored / handled /transported.
 Onset of decomposition at elevated temperatures (>65°C): (e.g. H₂S)

10.3. Possibility of hazardous reactions

possible with strong oxidizing agents.
 This product is stable under normal conditions. Hazardous reactions are unlikely.

10.4. Conditions to avoid

Oxidizing agents, strong..Etchant and acids

10.5. Incompatible materials

Oxidizing agents, strong.

10.6. Hazardous decomposition products

none/none

Further information

No thermal decomposition if properly stored / handled /transported.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

No data available.

Irritant effect on the respiratory tract: Do not breathe gas/vapour.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based				
	oral	LD50 mg/kg	=> 5000	Rat.	OECD 401
	dermal	LD50 mg/kg	= > 2000	Rabbit.	OECD 402
	inhalative (4 h) vapour	LC50 mg/l	= > 5.53	Rat.	OECD 403

Specific effects in experiment on an animal

No data available.

Irritation and corrosivity

Irritant effect on the skin: none/none

Frequent and prolonged eye contact may cause eye irritation.

Sensitising effects

Due to the very low concentration of sensitizing substances, the finished product can be assumed not to be skin-sensitizing.

Severe effects after repeated or prolonged exposure

Frequently or prolonged contact with skin may cause dermal irritation.

Carcinogenic/mutagenic/toxic effects for reproduction

The product is not classified.

Additional information on tests

The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

none/none

Empirical data on effects on humans

not applicable

Has de-greasing effect on the skin.

Further information

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

SECTION 12: Ecological information
12.1. Toxicity

No data available.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	h	Species	Source
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based					
	Acute fish toxicity	LC50	> 100 mg/l	96		OECD 203
	Acute algae toxicity	ErC50	>= 100 mg/l	72		OECD 201
	Acute crustacea toxicity	EC50	> 10 000 mg/l	48		OECD 202

12.2. Persistence and degradability

Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants. Is eliminable from water only with difficulty.

Not easily bio-degradable (according to OECD-criteria). Product is partially biodegradable. Significant residues remain.

Post-use oils must not be discharged into the sewer system or into surface waters nor must they be allowed to enter the soil.

12.3. Bioaccumulative potential

No data available.

Do not allow uncontrolled leakage of product into the environment.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
72623-87-1	Baseoil - unspecified, Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	> 6

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

Aquatic organisms: No data available.

Effects in sewage plants No data available.

No data available.

Further information

Do not empty into drains or the aquatic environment. The classification was undertaken in accordance with the calculation method governed by the Preparations Directive (1999/45/EC).

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Advice on disposal

The waste codes stated are recommendations based on the expected use of the substance and may be re-assigned to other waste codes by the user, if applicable.

Waste disposal according to official state regulations.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

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

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances
Classified as hazardous waste.

Contaminated packaging

Dispose of this material and its container to hazardous or special waste collection point. Cleaned containers may be recycled. Handle contaminated packaging in the same way as the substance itself.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.2. UN proper shipping name: Motor oil

Other applicable information (land transport)

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.2. UN proper shipping name: Motor oil

Other applicable information (inland waterways transport)

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.2. UN proper shipping name: Motor oil

Other applicable information (marine transport)

Contains: ZnDTP

Air transport (ICAO)

14.2. UN proper shipping name: Motor oil

Other applicable information (air transport)

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

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

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Full text of R phrases referred to under Sections 2 and 3

53 May cause long-term adverse effects in the aquatic environment.

Full text of H statements referred to under Sections 2 and 3

H304 May be fatal if swallowed and enters airways.

H413 May cause long lasting harmful effects to aquatic life.

Further Information

The above data are intended to describe our product in terms of any safety requirements to be observed. They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

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