

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

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

Synthetic hydraulic oil

1.3 Details of the supplier of the safety data sheet

Supplier Agro Oil
Box 30192
104 25 Stockholm, Sweden
Telephone +46 (0)10-556 00 00
E-mail info@agrol.se

1.4 Emergency telephone number

Sweden

Swedish Poisons Information Centre 010-456 67 00 (Open 24/7)
Emergency 112 (Ask for the Poison Centre)

Finland

Poison Information Centre 09-471 977 (Open 24/7)
Emergency 112 (Ask for the Poison Centre)

Norway

Norwegian Poison Information Centre 22 59 13 00 (Open 24/7)
Emergency 113 (Ask for the Poison Centre)

SECTION 2. HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture

Aquatic Chronic 3, H412

2.2 Label elements

Hazard pictograms

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Signal word

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Hazard statements

H412 Harmful to aquatic life with long lasting effects

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Precautionary statements

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P391	Collect spillage.
P501	Dispose of contents/container to approved waste disposal facility in accordance with local regulations

Other labelling

EUH208. Contains Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide. May produce an allergic reaction

2.3 Other hazards

Repeated exposure may cause skin dryness.

SECTION 3. COMPOSITION/INFORMATION OM INGREDIENTS

3.2 Mixtures

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

Name	EC no.	CAS no.	REACH reg no.	% (w/w)	Hazard statements
Dec-1-ene, dimers, hydrogenated	500-228-5	68649-11-6	01-2119493069-28	≤ 15	Asp tox 1, H304 Acute tox 4, H332
2,6-di-tert-butylphenol	204-884-0	128-39-2	01-2119490822-33	≤ 1	Skin irrit 2, H315 Aquatic Acute 1, H400, (M=1) Aquatic Chronic 1, H410, (M=1)
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide	943-535-3	-	01-2120120363-71	≤ 0,1	Eye irrit 2, H319 Skin Sens 1B, H317

Other information

For a full text of hazard statements: see Section 16

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Fresh air and rest. If difficulties in breathing get medical advice.
After eye contact: Rinse the eyes gently with water. If symptoms persist consult a doctor.
After skin contact: Take off contaminated clothing. Wash skin with soap and water
After ingestion: Rinse mouth and drink water. Do **not** induce vomiting. Contact a doctor if experiencing symptoms.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: In case of overheating, smoke and fumes appear irritating to the upper respiratory tract and lungs.
Eye: May cause mild eye irritation.
Skin: May produce an allergic reaction. Repeated and prolonged contact may appear dehydrating on the skin and cause redness, skin cracking and eczema (dermatitis).
Ingestion: Small amounts are not expected to produce any acute or delayed symptoms. Large amounts may cause nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Can be extinguished using dry powder, foam or carbon dioxide.
Unsuitable extinguishing media: Do not use direct water jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, toxic and corrosive gases may develop.

5.3 Advice for firefighters

Precautions according to the standard procedure for chemical fires. Use water **only** to cool down containers that are exposed to fire. Prevent extinguishing water from contaminating surface water or groundwater.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Eliminate all sources of ignition near the spilled product. Avoid contact with eyes and skin. Ensure adequate ventilation in buildings or confined spaces.

6.2 Environmental precautions

Stop leak at the source if safe to do so. Do not allow discharge to enter sewers, watercourses or the ground. Inform the competent authorities if the product has polluted the environment (sewage, watercourses, soil or air).

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6.3 Methods and material for containment and cleaning up

Contain/absorb spillages with suitable absorbent material such as sand, soil, vermiculite, diatomaceous earth or active clay. Collect in a suitable container. Disposal of waste must be in accordance with national regulations.

Spillages in water or at sea

In case of small spillages, contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents. If possible, collect the product and contaminated material and store / dispose of in accordance with current local regulations.

6.4 Reference to other sections

See Section 8 for Exposure controls / personal protection and Section 13 for disposal considerations..

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid prolonged or repeated contact with skin.
Do not reuse soiled clothing unless laundered.
Avoid inhalation of vapours, mist or fumes.

7.2 Conditions for safe storage, including any incompatibilities

Containers must be kept tightly closed and sealed. Keep out of reach of children.

7.3 Specific end use

See Section 1.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure limits according to National regulations

Sweden, Finland, Norway

Contains no substances with occupational exposure limits in the workplace.

8.2 Exposure controls

Appropriate technical measures

Ensure adequate ventilation. Methods are designed to prevent direct contact.

Personal protection

Respiratory protection:	Usually not needed.
Eye/face protection:	Wear eye protection (safety glasses with side shields or full face shield) when risk of splashing.
Skin protection:	Wear protective gloves (nitrile or PVC) and protective clothing.

Environmental exposure control

Prevent discharges into drains.

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state:	Oily liquid
Colour:	No information
Odour:	No information
Melting point / freezing point:	No data available
Boiling point or initial boiling point and boiling range:	No data available
Flammability:	The product is not classified as flammable but can ignite and maintain a fire.
Upper / lower flammability or explosive limits:	Not relevant
Flash point:	> 131 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH	Not relevant
Kinematic viscosity:	31 mm ² /s (40 °C)
Solubility:	Insoluble in water
Partition coefficient n-octanol/water:	No data available
Vapour pressure	No data available
Density and/or relative density:	0,898 g/cm ³
Relative vapour density:	No data available
Particle characteristics:	Not relevant (liquid)

9.2 Other information

9.2.1. Information with regard to physical hazard classes

Not relevant

9.2.2 Other safety characteristics

Not relevant

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity

The product is not reactive under normal conditions.

10.2 Chemical stability

The product is stable under normal conditions.

10.3 Possibility of hazardous reactions

None known.

10.4 Conditions to avoid

None specific.

10.5 Incompatible materials

The product may react with strong oxidizing agents.

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10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11. TOXIKOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Not considered to be acutely toxic.

Corrosive / irritating on the skin

Repeated and prolonged contact may appear dehydrating on the skin and cause redness, skin cracking and eczema (dermatitis).

Serious eye damage / irritation

May cause mild eye irritation.

Respiratory / skin sensitization

May produce an allergic reaction.

Germ cell mutagenicity

Not considered to be cause mutations in germ cells.

Carcinogenicity

Not considered to be carcinogenic.

Toxic to reproduction

Not considered to be toxic to reproduction.

Specific organ toxicity-single exposure

In case of overheating, smoke and fumes appear irritating to the upper respiratory tract and lungs.

Specific organ toxicity-repeated exposure

No information available.

Aspiration Hazard

Not classified as hazardous when inhaled based on the viscosity of the product and content of relevant substances.

11.2 Information on other hazards

Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

SECTION 12. ECOLOGICAL INFORMATION

The product is classified as hazardous to the environment (H412)

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12.1 Toxicity

Dec-1-ene, dimers, hydrogenated	LL ₅₀ Fish 96 h: > 1000 mg/L (Oncorhynchus mykiss) EL ₅₀ Daphnia 48 h: > 1000 mg/L (Daphnia magna) EL ₅₀ Algae 72 h: > 1000 mg/L (Scenedesmus capricornutum)
2,6-di-tert-butylphenol	LC ₅₀ Fish 96 h: > 1,4 mg/L (Pimephales promelas) EC ₅₀ Daphnia 48 h: 0,45 mg/L (Daphnia magna) EC ₅₀ Algae 72 h: 3,6 mg/L (Selenastrum capricornutum)
Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide	LD ₅₀ Fish 96 h: > 100 mg/L (Oncorhynchus mykiss) LD ₅₀ Daphnia 48 h: > 100 mg/L (Daphnia magna) EC ₅₀ Algae 72 h: > 100 mg/L (Pseudokirchneriella subcapitata)

12.2 Persistence and degradability

The product is expected to be inherently biodegradable.

2,6-di-tert-butylphenol	Degradability: 24%, 28 d. (OECD TG 302B). Not inherently degradable. Degradability: 5%, 28 d. (OECD TG 301B). Not inherently degradable.
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12.3 Bioaccumulative potential

No data on the product

2,6-di-tert-butylphenol	Log Pow: 4,5
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Succinic anhydride, alkylation products with C12-rich branched olefins from propene oligomerisation, hydrolyzed, esterification products with propylene oxide	BFC = 3,16
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12.4 Mobility in soil

The product is insoluble in water and is not considered to be mobile in soil.

12.5 Results of PBT och vPvB assessment

Based on available information, this mixture contains no substance that meets the PBT or vPvB criteria according to Annex XIII to Regulation (EC) No. 1907/2006 (REACH).

12.6 Endocrine disrupting properties

Based on available information, this mixture contains no substance which is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100 or (EU) 2018/605 in concentrations $\geq 0.1\%$ (w/w).

12.7 Other adverse effects

None known.

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SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Product residues, spills etc. are classified as hazardous waste. Disposal, transportation, storage and handling of the waste must be in accordance with national regulations. Product waste must not be allowed to contaminate soil or water, or released into the environment.

Classified as hazardous waste, with hazard class HP14 Ecotoxic: waste which presents or may present immediate or delayed risks for one or more sectors of the environment.

Suggested waste code (EWC): 13 01 11* Synthetic hydraulic oils

Packaging

EWC-code: 15 01 02, Plastic packaging

EWC-code: 15 01 04, Metallic packaging

Packaging containing product residues that are not drip dry must be handled as hazardous waste and disposed of properly sealed.

EWC-code: 15 01 10*, Packaging containing residues of or contaminated by hazardous substances.

SECTION 14. TRANSPORT INFORMATION

The product is not covered by the regulations for the transport of dangerous goods.

	ADR/RID	ADN	IMDG	IATA /ICAO
14.1 UN-number or ID number	N/A	N/A	N/A	N/A
14.2 UN proper shipping name	N/A	N/A	N/A	N/A
14.3 Transport hazard class	N/A	N/A	N/A	N/A
14.4 Packing group	N/A	N/A	N/A	N/A
14.5 Environmental hazards	N/A	N/A	N/A	N/A

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

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SECTION 15. REGULATORY INFORMATION

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

This safety data sheet is prepared in accordance with the EUROPEAN PARLIAMENT AND COUNCIL REGULATION (EC) No 1907/2006 of 18 December 2006 concerning the registration, evaluation, authorization and restriction of chemicals (REACH) and Commission Regulation (EU) No 2020/878 of 18 June 2020 amending the European Parliament and Council Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH).

Regulations

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substance and mixtures (CLP).

Commission Regulation (EU) No 1357/2014 of 18 December 2014 replacing Annex III to Directive 2008/98/EC of the European Parliament and of the Council on waste.

Sweden

AFS 2011:19, amended by AFS 2018:2 (Chemical risks at work)

KIFS 2017:7 (Chemical products and Biotechnicological organisms Regulation)

Finland

715/2001 (Chemical risks at work)

Norway

Regulations concerning the design and layout of workplaces and work premises (the Workplace Regulations)

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16. OTHER INFORMATION

Please note! This safety data sheet is an English translation applicable for Sweden, Norway and Finland. A safety data sheet in local language is also available. Please refer to the Agro Oil webshop for safety data sheets in local languages. <https://webshop.agrol.se/>

Classification procedure

Test data is prioritized when classifying the product. When no test data are available the classification criteria in Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP) have been used.

Hazard statements in Section 3

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.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects

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Abbreviations

ADN	International Carriage of Dangerous Goods by Inland Waterways
ADR	International Carriage of Dangerous Goods by Road
BCF	Bio Concentration Factor
BOD5/COD	Biological Oxygen Demand 5 days/Chemical Oxygen demand
BOD (MITI)	Biological Oxygen Demand
DNEL	Derived No Effect Level
EC ₅₀	Effective Concentration (concentration that gives response in 50% of test subjects)
ECHA	European Chemical Agency
EL ₅₀	Effective load
EmS	Emergency Schedule Information
HTP	Exposure value, concentrations of impurities in workplace air known to be harmful.
IARC	International Agency for Research on Cancer
IATA/ICAO	IATA Dangerous goods regulation / ICAO Technical Instructions for the Safe Transport of Dangerous Goods by Air
IC ₅₀	Inhibitory Concentration (concentration that shows inhibition in 50% of the test subjects)
IMDG	International Maritime Dangerous Goods Code
KTV	Short term exposure values, normally 15 minutes
LC ₅₀	Lethal Concentration (concentration causing the death of 50% of a group of test animals)
LD ₅₀	Lethal Dose (dose causing the death of 50% of a group of test animals)
LL ₅₀	Lethal Load
Log Pow	Partition coefficient of octanol - water
MITI	Ministry of International Trade and Industry, Japan
NGV	Long term exposure value, normally 8 hours.
NOEC	No Observed Effect Concentration
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bio-accumulative and Toxic substance
PNEC	Predicted No Effect Concentration
RID	International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	very Persistent and very Bioaccumulative

Advice on education

The user of this product should have training that is relevant to the properties of the product and relevant use.

References

Information from the supplier.
Classification & Labelling Inventory Database, ECHA.
Registered substances, ECHA.

Version description

The information has been modified under the following sections in the safety data sheet: 1-4, 6, 8-9, 11-16

The safety data sheet is dated 03.06.2022 and replaces the version dated 22.02.2019.