

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Nouracid DE 402
REACH number	: all the ingredients of this product in the scope of Regulation 1907/2006/EC (REACH), if not exempted, have been registered.
C&L notification reference no	: all the ingredients of this product in the scope of Regulation 1272/2008/EC (CLP), if not exempted, have been notified to the C&L Inventory.
Label name	: Dehydrated castor oil fatty acids

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

Relevant identified uses

Main use category	: Industrial use
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1.3. Details of the supplier of the safety data sheet

OLEON N.V.
Assenedestraat 2
BE 9940 Ertvelde
Belgium
T +32 9 341 10 11, F +32 9 341 10 00
sds@oleon.com, www.oleon.com

1.4. Emergency telephone number

Emergency number	: 24/7 EMERGENCY NUMBER (SGS ERS; Oleon contract nr 76858) +32 3 575 55 55 (worldwide); +1 888 765 6554 (USA tollfree)
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards which do not result in classification : None under normal conditions.

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Fatty acids, dehydrated castor oil (61789-45-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Fatty acids, dehydrated castor oil (61789-45-5)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Fatty acids, sunflower-oil (84625-38-7), Fatty acids, dehydrated castor oil (61789-45-5)

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Fatty acids, sunflower-oil (Constituent)	CAS No.: 84625-38-7 EC no.: 283-413-0 REACH-no: 1907/2006/EC Annex V.9	60	Not classified
Fatty acids, dehydrated castor oil (Main constituent)	CAS No.: 61789-45-5 EC no.: 263-061-4 REACH-no: 01-2119984316-29	40	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove victim to fresh air. Respiratory problems: consult a doctor/medical service.
First-aid measures after skin contact	: Wash off immediately with soap and plenty of water. If irritation persists, consult a doctor.
First-aid measures after eye contact	: Rinse immediately with plenty of water for 15 minutes. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: Rinse mouth thoroughly with water. Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects	: No supplementary information available.
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Symptoms/effects after inhalation : On heating: Irritation of the respiratory tract.

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

No supplementary information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : AFFF foam. BC-powder. Carbon dioxide. Dry sand. Dry chemical powder. Use the extinguishing media recommended for the burning materials and fire situation.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Fire hazard : DIRECT FIRE HAZARD: Combustible. INDIRECT FIRE HAZARD: Heating may cause a fire or explosion. Temperature above flashpoint: higher fire/explosion hazard.

Explosion hazard : DIRECT EXPLOSION HAZARD: Fine dust dispersed in air may ignite. INDIRECT EXPLOSION HAZARD: Dust cloud can be ignited by a spark.

Reactivity in case of fire : On burning: release of carbon monoxide/carbon dioxide.

5.3. Advice for firefighters

Other information : No supplementary information available.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Mark the danger area. Caution : this product can cause the floor to be slippery. Wash contaminated clothing before reuse. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

For non-emergency personnel

Protective equipment : See "Material-Handling" to select protective clothing.

For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent soil and water pollution. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

For containment : Knock down/dilute dust cloud with water spray.

Methods for cleaning up : Spills of this product present a serious slipping hazard. If melted: allow liquid to solidify before taking it up. Sweep or shovel spills into appropriate container for disposal. Clean contaminated surfaces with a soap solution. Flush/dilute with water. Clear up spills immediately and dispose of waste safely.

Other information : No supplementary information available.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling temperature : $\geq 10\text{ }^{\circ}\text{C}$ above melting point

7.2. Conditions for safe storage, including any incompatibilities

Information on mixed storage : KEEP AWAY FROM: Acids. strong acids. bases. strong bases.
Storage area : Keep container in a well-ventilated place. Store at ambient temperature. Keep out of direct sunlight. Meet the legal requirements.
Special rules on packaging : Store in a closed container. Suitably labelled. Meet the legal requirements.
Packaging materials : Suitable materials for containers. Aluminium. Glass. Stainless steel. Do not store in corrodable metal.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Gloves. Protective clothing. Safety glasses.

Personal protective equipment symbol(s):



Skin protection

Other skin protection

Materials for protective clothing:

Good resistance: Nitrile rubber

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Yellow to dark yellow.
Appearance (room temperature) : Liquid.
Odour : Characteristic. Mild odor.
Odour threshold : Not available
Melting point : ca. $10\text{ }^{\circ}\text{C}$
Freezing point : Not available
Boiling point : $> 200\text{ }^{\circ}\text{C}$
HMIS Flammability : Not available
Explosive properties : Not explosive.

Oxidising properties	: Not oxidising.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 202 °C (ASTM D92; EMM.FET2010-0179)
Auto-ignition temperature	: > 250 °C
Decomposition temperature	: Not available
pH	: < 7
Viscosity, kinematic	: 26.846 mm ² /s
Viscosity, dynamic	: 24 mPa·s (30°C; EMM.FET2010-0179)
Solubility	: Water: < 0.005 g/100ml (25°C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: > 5 (est.)
Vapour pressure	: < 0.01 hPa (20°C)
Vapour pressure at 50 °C	: Not available
Density	: 894 kg/m ³ (30°C; EMM.FET2010-0179)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

Other safety characteristics

Other properties : Poorly soluble in water, Soluble in oils/fats, Soluble in most organic solvents

SECTION 10: Stability and reactivity

10.1. Reactivity

On burning: release of carbon monoxide/carbon dioxide.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No supplementary information available.

10.5. Incompatible materials

No supplementary information available.

10.6. Hazardous decomposition products

No supplementary information available.

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Nouracid DE 402

LD50 oral rat	> 2000 mg/kg Non-toxic
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Fatty acids, sunflower-oil (84625-38-7)

LD50 oral rat	> 2000 mg/kg Non-toxic
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Fatty acids, dehydrated castor oil (61789-45-5)

LD50 oral rat	> 2000 mg/kg Non-toxic
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Skin corrosion/irritation : Not classified
pH: < 7

Fatty acids, sunflower-oil (84625-38-7)

pH	< 7
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Fatty acids, dehydrated castor oil (61789-45-5)

pH	< 7
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Serious eye damage/irritation : Not classified
pH: < 7

Fatty acids, sunflower-oil (84625-38-7)

pH	< 7
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Fatty acids, dehydrated castor oil (61789-45-5)

pH	< 7
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Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

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Viscosity, kinematic	26.8 mm ² /s
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Fatty acids, sunflower-oil (84625-38-7)

Viscosity, kinematic	22.4 mm ² /s
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Fatty acids, dehydrated castor oil (61789-45-5)

Viscosity, kinematic	57.5 mm ² /s
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11.2. Information on other hazards

Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Ecology - air	: No supplementary information available.
Ecology - water	: No data available concerning bioaccumulation
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

12.2. Persistence and degradability

Nouracid DE 402

Persistence and degradability	Rapidly degradable
ThOD	2.9 g O ₂ /g substance

Fatty acids, sunflower-oil (84625-38-7)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
ThOD	2.9 g O ₂ /g substance

Fatty acids, dehydrated castor oil (61789-45-5)

Persistence and degradability	Readily biodegradable, according to appropriate OECD test.
ThOD	2.9 g O ₂ /g substance

12.3. Bioaccumulative potential

Nouracid DE 402

Partition coefficient n-octanol/water (Log Pow)	> 5 (est.)
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Fatty acids, sunflower-oil (84625-38-7)

Partition coefficient n-octanol/water (Log Pow)	> 5 (est.)
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Fatty acids, dehydrated castor oil (61789-45-5)

Partition coefficient n-octanol/water (Log Pow)	> 5 (est.)
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12.4. Mobility in soil

Nouracid DE 402

Surface tension	≈ 0.03 N/m (20°C)
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Fatty acids, sunflower-oil (84625-38-7)

Surface tension	≈ 0.03 N/m (20°C)
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Fatty acids, dehydrated castor oil (61789-45-5)

Surface tension	≈ 0.03 N/m (20°C)
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12.5. Results of PBT and vPvB assessment

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Fatty acids, dehydrated castor oil (61789-45-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Fatty acids, dehydrated castor oil (61789-45-5)

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

Nouracid DE 402	
Other information	No supplementary information available
Fatty acids, sunflower-oil (84625-38-7)	
Other information	No supplementary information available
Fatty acids, dehydrated castor oil (61789-45-5)	
Other information	No supplementary information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal : No supplementary information available
Regional waste regulation : No supplementary information available.
Ecological waste information : Do not discharge into drains or the environment. Remove to an authorized waste treatment plant.
European List of Waste (LoW, EC 2000/532) : No supplementary information available

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	-	Not applicable	Not applicable	Not applicable

ADR	IMDG	IATA	ADN	RID
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

Overland transport

Transport regulations (ADR) : Not subject

Transport by sea

Transport regulations (IMDG) : Not subject

Air transport

No data available

Inland waterway transport

No data available

Rail transport

Transport regulations (RID) : Not subject

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Chemical inventories	: Compliant with AICIS, DSL, EU REACH, IECSC, KECL, NCI, NZIoC, PICCS, TCSI, TR EAEU, TSCA
KKDIK number (Turkey)	: all the ingredients of this product in the scope of KKDIK, if not exempted, have been (pre-)registered.
K-REACH (Korea)	: all the ingredients of this product in the scope of K-REACH, if not exempted, have been (pre-)registered.
UK-REACH (Great Britain)	: all the ingredients of this product in the scope of UK-REACH, if not exempted, have been notified.

Germany

Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
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Netherlands

ABM category	: B(4) - low hazard for aquatic organisms
SZW List of Carcinogenic Substances	: None of the components are listed
SZW List of Mutagenic Substances	: None of the components are listed
SZW List of Reprotoxic Substances – Breastfeeding	: None of the components are listed
SZW List of Reprotoxic Substances – Fertility	: None of the components are listed
SZW List of Reprotoxic Substances – Development	: None of the components are listed

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Fatty acids, dehydrated castor oil

SECTION 16: Other information

Training advice	: No supplementary information available.
Chemical inventories legend	: AICIS = Australian Inventory of Industrial Chemicals DSL = Canadian Domestic Substances List EU REACH = European Union REACH Regulation 1907/2006 IECSC = Inventory of Existing Chemicals Substances in China KECL = Korean Existing Chemical List NCI = Vietnam National Chemical Inventory NZIoC = New Zealand Inventory of Chemicals PICCS = Philippines Inventory of Chemicals and Chemical Substances TCSI = Taiwan Chemical Substance Inventory TR EAEU = Eurasian Economic Union Unified list of chemicals TSCA = USA Toxic Substances Control Act
SDS changed sections	: 11 - Toxicological information; 12 - Ecological information
SDS Reason for revision	: No supplementary information available
Other information	: No supplementary information available.

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.