

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 24/11/2022 Revision date: 17/10/2023 Supersedes version of: 24/11/2022 Version: 1.1

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

1.1. Product identifier

Product form	:	Mixture
Product name	:	43990 - EP GREASE NLGI 2
Product code	:	43990

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

1.2.1. Relevant identified uses

Main use category Function or use category Industrial use,Professional useLubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

77 Lubricants B.V. NL– 1761 JA The Netherlands T +31 (0)78 6527652 technical@77lubricants.nl - www.77lubricants.nl

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

EUH-statements

: EUH210 - Safety data sheet available on request.

2.3. Other hazards

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

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 %

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] substance with national workplace exposure limit(s) (BE, BG, CZ, DK, ES, FI, GB, GR, HU, IE, LT, LV, NL, PL, PT, RO, SE, SK, IS, NO, CH); substance with a Community workplace exposure limit	CAS-No.: 64742-52-5 EC-No.: 265-155-0 EC Index-No.: 649-465-00-7 REACH-no: 01-2119467170- 45	≥ 75	Not classified
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts substance with national workplace exposure limit(s) (DE, SK)	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	≥1-<3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits (%)	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS-No.: 85940-28-9 EC-No.: 288-917-4 REACH-no: 01-2119521201- 61	(15 ≤ C < 100) Skin Irrit. 2, H315 (15 ≤ C < 20) Eye Irrit. 2, H319 (20 ≤ C < 100) Eye Dam. 1, H318	

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact : Wash skin with plenty of water. First-aid measures after eye contact : Rinse eyes with water as a precaution. First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures 5.1. Extinguishing media Suitable extinguishing media : Water spray. Dry powder. Foam.

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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 Explosion hazard	 Will ignite if exposed to intensive heat. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. No direct explosion hazard. 				
Reactivity in case of fire	: Upon combustion: release of CO, CO2 and toxic and corrosive gases/vapours (nitrous vapours).				
Hazardous decomposition products in case of fire	: Toxic fumes may be released.				
5.3. Advice for firefighters					
Precautionary measures fire Firefighting instructions	Evacuate area.Eliminate all ignition sources if safe to do so. Use water spray or fog for cooling exposed containers.				
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.				

SECTION 6: Accidental release measures					
6.1. Personal precautions, protective equipment and emergency procedures					
General measures : Avoid spilling the product, as this might cause falls. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.					
6.1.1. For non-emergency personnel					
Protective equipment	: Wear recommended personal protective equipment.				
Emergency procedures	: Ventilate spillage area.				
6.1.2. For emergency responders					
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				

621	Environmental	procautions	
0.2.1		precautions	

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up				
For containment	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.			
Methods for cleaning up	: Mechanically recover the product.			
Other information	: Dispose of materials or solid residues at an authorized site.			
6.4. Reference to other sections				

For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 Ensure good ventilation of the work station. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions Maximum storage period Storage temperature Storage area Special rules on packaging	 Store in a well-ventilated place. Keep cool. 5 year 0 - 40 °C Store at ambient temperature. Store away from heat. Store in a closed container.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5)

EU - Indicative Occupational Exposure Limit (IOEL)		
IOEL TWA 5 mg/m ³		
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA) [1] 5 mg/m ³		

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Safety glasses

Eye protection				
Type Field of application Characteristics Standard				
Safety glasses	Droplet, Dust, Fine dust	clear, With side shields	EN 166	

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

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Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	>0.09	2 (< 1.5)	EN ISO 374-1

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

9.1. Information on basic physical and chemical properties

Physical state	:	Solid
Colour	:	brown.
Odour	:	Not available
Odour threshold	:	Not available
Melting point	:	≥ 180 °C (ASTM D2265)
Freezing point	:	Not applicable
Boiling point	:	Not available
Flammability	:	Not flammable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Flash point	:	≥ 200 °C (ASTM D93)
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	Not available
рН	:	Not available
pH solution	:	Not available
Viscosity, kinematic	:	220 mm²/s @ 40°C
Solubility	:	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	Not available
Relative density	:	0.86 – 0.96 @ 25°C
Relative vapour density at 20°C	:	Not applicable
Particle size	:	Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information			
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008			
Acute toxicity (oral): Not classifiedAcute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classified			
Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5)			
LD50 oral (rat)	> 5000 mg/kg bodyweight OECD 401		
LD50 dermal (rabbit)	> 5000 mg/kg bodyweight OECD 402		
LC50 inhalation (rat) (Dust/Mist - mg/l/4h)	5.53 mg/l/4h OECD 403		
Phosphorodithioic acid, mixed O,O-bis(2-ethy	Ihexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
LD50 oral (rat)	3080 mg/kg OECD Guideline 401		
LD50 dermal (rabbit)	> 20000 mg/kg OECD Guideline 402		
LC50 inhalation (rat) (Vapours - mg/l/4h)	> 2.3 mg/l/4h OECD Guideline 403		
Skin corrosion/irritation :	Not classified		
Serious eye damage/irritation :	Not classified		
Respiratory or skin sensitisation :	Not classified		
	Not classified		
	Not classified		
-1	Not classified		
	Not classified		
STOT-repeated exposure :	Not classified		
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)			
NOAEL (subacute, oral, animal/female, 28 days)	125 mg/kg bodyweight 407 Repeated Dose 28-day Oral Toxicity Study in Rodents		
Aspiration hazard :	Not classified		
43990 - EP GREASE NLGI 2	43990 - EP GREASE NLGI 2		
Viscosity, kinematic	220 mm²/s @ 40°C		
11.2. Information on other hazards			

No additional information available

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12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short–ten (acute)	 The product is not considered harmful to aquatic organisms nor to cause long-term advers effects in the environment. M to classified
Hazardous to the aquatic environment, long-tern	n : Not classified
(chronic)	
Not rapidly degradable	
obtained by treating a petroleum fractio carbon numbers predominantly in the ra	avy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons on with hydrogen in the presence of a catalyst. It consists of hydrocarbons having ange of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F
(1905) at 40 °C). It contains relatively fe	w normal paraffins.] (64742-52-5)
(19cSt at 40 °C). It contains relatively fee LC50 - Fish [1]	<pre>w normal paraffins.] (64742-52-5) > 100 mg/l Pimephales promelas</pre>
LC50 - Fish [1]	> 100 mg/l Pimephales promelas
LC50 - Fish [1] EC50 - Crustacea [1]	 > 100 mg/l Pimephales promelas > 10000 mg/l
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish	 > 100 mg/l Pimephales promelas > 10000 mg/l > 1000 mg/l
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish NOEC chronic crustacea NOEC chronic algae	 > 100 mg/l Pimephales promelas > 10000 mg/l > 1000 mg/l 1000 mg/l 10 mg/l Daphnia magna OECD 211 (21d)
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish NOEC chronic crustacea NOEC chronic algae	 > 100 mg/l Pimephales promelas > 10000 mg/l > 1000 mg/l 100 mg/l 10 mg/l Daphnia magna OECD 211 (21d) > 100 mg/l
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish NOEC chronic crustacea NOEC chronic algae Phosphorodithioic acid, mixed O,O-bis(> 100 mg/l Pimephales promelas > 10000 mg/l > 1000 mg/l 100 mg/l 10 mg/l Daphnia magna OECD 211 (21d) > 100 mg/l (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish NOEC chronic crustacea NOEC chronic algae Phosphorodithioic acid, mixed O,O-bis(LC50 - Fish [1]	> 100 mg/l Pimephales promelas > 1000 mg/l > 1000 mg/l 10 mg/l Daphnia magna OECD 211 (21d) > 100 mg/l '2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9) 4.5 mg/l Oncorhynchus mykiss
LC50 - Fish [1] EC50 - Crustacea [1] NOEC chronic fish NOEC chronic crustacea NOEC chronic algae Phosphorodithioic acid, mixed O,O-bis(LC50 - Fish [1] EC50 - Crustacea [1]	> 100 mg/l Pimephales promelas > 10000 mg/l > 1000 mg/l 10 mg/l Daphnia magna OECD 211 (21d) > 100 mg/l 2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9) 4.5 mg/l Oncorhynchus mykiss > 5.4 mg/l Daphnia magna

12.2. Persistence and degradability

Distillates (petroleum), hydrotreated heavy naphthenic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40 °C). It contains relatively few normal paraffins.] (64742-52-5)

Biodegradation	31 % 28d	
Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
Persistence and degradability Not readily biodegradable.		
Biodegradation	1.5 % OECD 301B (28d)	

12.3. Bioaccumulative potential

Phosphorodithioic acid, mixed O,O-bis(2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts (85940-28-9)		
Partition coefficient n-octanol/water (Log Pow) 8.87 @ 20°C		

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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12.6. Endocrine disrupting properties
No additional information available
12.7. Other adverse effects
No additional information available
SECTION 13: Disposal considerations

13.1. Waste treatment methods Waste treatment methods

European List of Waste (LoW, EC 2000/532) HP Code

: Dispose of contents/container in accordance with licensed collector's sorting instructions. : 07 07 99 - wastes not otherwise specified

: HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Inland waterway transport Not regulated

Rail transport Not regulated

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

15.1.1. 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (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 (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)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	

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Abbreviations and acr	onyms:
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
РВТ	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H315	Causes skin irritation.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H411	Toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	

Safety Data Sheet (SDS), EU

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.