SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 as amended by Commission Regulation (EU) 2020/878 and Regulation (EC) No. 1272/2008

Issuing Date 03-Apr-2020 **Revision Date** 19-May-2023 **Revision Number** 1

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

1.1. Product identifier

Product Code(s) SVG, SVT

Product Name AMSOIL Severe Gear® SAE 75W-90 100% Synthetic Gear Lube AMSOIL Severe Gear® SAE 75W-110 100% Synthetic Gear Lube

Synonyms None

Pure substance/mixture Mixture

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

Recommended use Lubricating Oil

Uses advised against Avoid formation of mists

1.3. Details of the supplier of the safety data sheet

Supplier
AMSOIL INC.
One AMSOIL Center
Superior, WI 54880, USA
T: +1 715-392-7101

For further information, please contact
E-mail address compliance@amsoil.com

1.4. Emergency telephone number

Emergency telephone CHEMTREC (Italy): 39-0245557031
CHEMTREC International: +1 703-741-5970

Emergency telephone - §45 - (EC)1272/2008	
Europe	**112**

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Hazard statements
Not classified
EUH210 - Safety data sheet available on request

2.3. Other hazards

Harmful to aquatic life. The product does not contain any substance(s) classified as PBT or vPvB.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Hydrogenated base oil 72623-87-1	15-25	No data available	(649-483-00-5) 276-738-4	Carc. 1B (*L) (H350)	-	-	-
Hydrogenated base oil 72623-87-1	10-15	No data available	(649-483-00-5) 276-738-4	Asp. Tox 1 (H304)	-	-	-
Diisodecyl adipate 27178-16-1	10-15	No data available	248-299-9	No data available	-	-	-
Sulfurized isobutylene 68511-50-2	1-5	No data available	270-943-2	No data available	-	-	-
Amines, polyethylenepoly-, reaction producls with succinicanhydride polyisobutenyl denvs., borated 134758-95-5	<1.0	No data available	No information available	Eye Irrit. 2 (H319)	-	-	-
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	<1.0	No data available	269-616-7	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	<1.0	No data available	271-663-3	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	-	-	-
Hydrogenated base oil 8042-47-5	<1.0	No data available	232-455-8	Asp. Tox. 1 (H304)	-	-	-
Reaction product of phosphoric acid with alkylamine -	<1.0	No data available	No information available	Skin Irrit. 2 (H315)	-	-	-
Hydrogenated base oil	<0.1	No data available	(649-482-00-X) 276-737-9	Asp.Tox.1 (H304)	-	-	-

72623-86-0							
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	<0.1	No data available	No information available	No data available	-	-	-
Hydrogenated base oil 64742-47-8	<0.1	No data available	(649-422-00-2) 265-149-8	Asp. Tox. 1 (H304)	-	-	-
Bis(2-ethylhexyl) maleate 142-16-5	<0.01	No data available	205-524-5	STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1
2,2'-(octadec-9-enylimino)bisethanol 25307-17-9	<0.01	No data available	246-807-3	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	10	1

Additional information

The classification as a carcinogen does not apply as it can be shown that the substance(s) contain(s) less than 3% DMSO extract as measured by IP 346

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

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Hydrogenated base oil 72623-87-1	5005	2002	No data available	No data available	No data available
Hydrogenated base oil 72623-87-1	5005	2002	No data available	No data available	No data available
Diisodecyl adipate 27178-16-1	20500	5005	No data available	No data available	No data available
Sulfurized isobutylene 68511-50-2	5700	No data available	No data available	No data available	No data available
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	No data available	2002	No data available	No data available	No data available
Hydrogenated base oil 8042-47-5	5005	No data available	No data available	No data available	No data available
Hydrogenated base oil 72623-86-0	5005	2002	2.18	No data available	No data available
1,3,4-Thiadiazole-2(3O)-thione,	No data available	2002	No data available	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
5-(.t-e"rtt-dodecyldithio)-73984-93-7					
Hydrogenated base oil 64742-47-8	5005	2002	5.2052	No data available	No data available
Bis(2-ethylhexyl) maleate 142-16-5	14000	14415	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

Inhalation Remove person to fresh air and keep comfortable for breathing.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash skin with soap and water. Take off contaminated clothing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

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

Symptoms May cause gastrointestinal discomfort if consumed in large amounts. May cause temporary eye irritation.

Effects of Exposure No information available.

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

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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

Specific hazards arising from the Containers can burst or explode when heated, due to excessive pressure build-up.

chemical

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO2). Hydrocarbons.

5.3. Advice for firefighters

Specific/special fire-fighting measures Fires need to be assessed to determine appropriate protocols and safety measures for firefighting, including establishing safe zones, extinguishing media to be used, firefighter protection, and actions to control or extinguish the fire.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation. Use personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent materials or runoff from entering drains, sewers, streams, ground water or bodies of water.

Methods for cleaning up Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections For additional information see: Section 8: Exposure controls/personal protection; Section 12: Ecological information; Section 13: Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Avoid contact with used product. Ensure adequate ventilation. Avoid contact with eyes.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Do not reuse empty containers. Store away from incompatible materials. See section 10 for more information. Protect from physical damage.

Storage class (TRGS 510) LGK 10.

7.3. Specific end use(s)

Specific use(s). No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits Under conditions which may generate mists, the following exposure limits are recommended:. Long-term exposure limit (8-hour TWA): 5 mg/m³. Short-term exposure limit (15-minute): 10 mg/m³.

Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Hydrogenated base oil 64742-47-8	-	-	-	TWA: 5 mg/kg STEL: 500 mg/m³	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Hydrogenated base oil 8042-47-5	-	TWA: 5 mg/m³	TWA: 5 mg/m³ Peak: 20 mg/m³	-	TWA: 5 mg/m³
Hydrogenated base oil 64742-47-8	-	TWA:	TWA: 5 mg/m³ TWA: 50 ppm TWA: 350 mg/m³ Peak: 20 mg/m³ Peak: 100 ppm Peak: 700 mg/m³	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Hydrogenated base oil 8042-47-5	-	-	-	TWA: 5 mg/m³	-
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Hydrogenated base oil 8042-47-5	-	-	-	TWA: 5 mg/m³ STEL: 20 mg/m³	-

Chemical name	Sweden	Switzerland	United Kingdom
Hydrogenated base oil 8042-47-5	-	TWA: 5 mg/m³	-
Hydrogenated base oil 64742-47-8	-	TWA: 50 ppm TWA: 350 mg/m³ TWA: 5 mg/m³ STEL: 100 ppm STEL: 700 mg/m³	-

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
Hydrogenated base oil 72623-87-1	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
Hydrogenated base oil 72623-87-1	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
Diisodecyl adipate 27178-16-1	-	15 mg/kg bw/day [4] [6]	2.8 mg/m³ [4] [6]
Amines, C12-14-alkyl, C6-10-alkyl	-	15.6 µg/kg bw/day [4] [6]	54.8 µg/m³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
phosphates 68603-55-4			
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	-	1.67 mg/kg bw/day [4] [6]	5.87 mg/m³ [4] [6]
Hydrogenated base oil 8042-47-5	-	217.05 mg/kg bw/day [4] [6]	164.56 mg/m³ [4] [6]
Hydrogenated base oil 72623-86-0	-	0.97 mg/kg bw/day [4] [6]	2.73 mg/m³ [4] [6] 5.58 mg/m³ [5] [6]
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	-	0.83 mg/kg bw/day [4] [6]	2.93 mg/m³ [4] [6]
Bis(2-ethylhexyl) maleate 142-16-5	-	2.5 mg/kg bw/day [4] [6]	7 mg/m³ [4] [6]
2,2'-(octadec-9-enylimino)bisethanol 25307-17-9	-	0.3 mg/kg bw/day [4] [6]	2.112 mg/m³ [4] [6]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
Hydrogenated base oil 72623-87-1	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m³ [5] [6]
Hydrogenated base oil 72623-87-1	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m³ [5] [6]
Diisodecyl adipate 27178-16-1	0.283 mg/kg bw/day [4] [6]	-	0.419 mg/m³ [4] [6]
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	5.56 µg/kg bw/day [4] [6]	-	9.67 µg/m³ [4] [6]
Hydrogenated base oil 8042-47-5	25 mg/kg bw/day [4] [6]	-	34.78 mg/m³ [4] [6]
Hydrogenated base oil 72623-86-0	0.74 mg/kg bw/day [4] [6]	-	1.19 mg/m³ [5] [6]
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	0.42 mg/kg bw/day [4] [6]	-	0.73 mg/m³ [4] [6]
Hydrogenated base oil 64742-47-8	18.75 mg/kg bw/day [4] [6]	-	-
2,2'-(octadec-9-enylimino)bisethanol 25307-17-9	0.214 mg/kg bw/day [4] [6]	-	0.745 mg/m³ [4] [6]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	0.315 µg/L	3.15 µg/L	31.5 ng/L	0.315 µg/L	-
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	0.1 mg/L	1 mg/L	0.01 mg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	0.04 mg/L	0.41 mg/L	0.004 mg/L	0.41 mg/L	-
Bis(2-ethylhexyl) maleate 142-16-5	0.00104 mg/L	0.00619 mg/L	0.000104 mg/L	-	-
2,2'-(octadec-9-enylimino) bisethanol 25307-17-9	0.214 µg/L	0.87 µg/L	0.0214 µg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Hydrogenated base oil 72623-87-1	-	-	-	-	9.33 mg/kg food
Hydrogenated base oil 72623-87-1	-	-	-	-	9.33 mg/kg food
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	76.7 µg/kg sediment dw	7.67 µg/kg sediment dw	3.26 mg/L	15.2 µg/kg soil dw	-
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	-	-	32 mg/L	-	33.3 mg/kg food
Hydrogenated base oil 72623-86-0	-	-	-	-	9.33 mg/kg food
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	989.6 mg/kg sediment dw	98.96 mg/kg sediment dw	8000 mg/L	516.08 mg/kg soil dw	66.67 mg/kg food
Bis(2-ethylhexyl) maleate 142-16-5	15.95 mg/kg sediment dw	1.595 mg/kg sediment dw	100 mg/L	3.19 mg/kg soil dw	20 mg/kg food
2,2'-(octadec-9-enylimino) bisethanol 25307-17-9	1.692 mg/kg sediment dw	0.1692 mg/kg sediment dw	1500 µg/L	5 mg/kg soil dw	2 mg/kg food

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection If there is a risk of contact: Wear safety glasses with side shields (or goggles).

Hand protection If there is a risk of contact: Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.

Skin and body protection If there is a risk of contact: Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	yellow
Odour	Sulphur
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		No data available
Initial boiling point and boiling range		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point	218 - 222 °C	Cleveland Open Cup ASTM D 92
Autoignition temperature		No data available
Decomposition temperature		No data available
pH		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity	97.8-132.6 @40°C 16-20.5 @100°C cSt	ASTM D445
Dynamic viscosity		No data available
Water solubility		No data available
Solubility(ies)	No information available	
Partition coefficient		No data available
Vapour pressure		
Relative density	0.8545 - 0.8607	
Bulk density		No data available
Liquid Density		No data available
Relative vapour density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

9.2. Other information

Pour Point -43°C [ASTM D 97]

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

Fire Point 236-240°C (COC) [ASTM D 92]

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity None under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products Processing may release irritating fumes, olefinic and paraffinic compounds, carbon monoxide, and carbon dioxide. Carbon oxides.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information .

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Repeated exposure may cause skin dryness or cracking.

Ingestion Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause temporary eye irritation.

Acute toxicity
Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogenated base oil	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h

72623-87-1			
Hydrogenated base oil 72623-87-1	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
Diisodecyl adipate 27178-16-1	= 20500 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Sulfurized isobutylene 68511-50-2	= 5700 mg/kg (Rat)	-	> 0.39 mg/L (Rat) 4 h
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	-	> 2000 mg/kg (Rat)	-
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Hydrogenated base oil 8042-47-5	> 5000 mg/kg (Rat)	-	-
Hydrogenated base oil 72623-86-0	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat) 4 h
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	-	> 2000 mg/kg (Rabbit)	> 0.62 mg/L (Rat) 4 h
Hydrogenated base oil 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
Bis(2-ethylhexyl) maleate 142-16-5	= 14 g/kg (Rat)	= 14415 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Component Information	
Amines, C12-14-alkyl, C6-10-alkyl phosphates (68603-55-4)	
Method	OECD Test No. 431: In Vitro Skin Corrosion: Human Skin Model Test
Species	EPISKIN™
Exposure route	in vitro
Effective dose	0.05 mL
Exposure time	1 hour
Results	Irritant

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity The supplier declares that it can be shown that the substance(s) contain less than 3% DMSO extract as measured by IP 346.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Hydrogenated base oil	Carc. 1B
Hydrogenated base oil	Carc. 1B
Hydrogenated base oil	Carc. 1B

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure Based on available data, the classification criteria are not met.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Due to the viscosity, this product does not present an aspiration hazard.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogenated base oil 72623-87-1	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Hydrogenated base oil 72623-87-1	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Sulfurized isobutylene 68511-50-2	-	LC50: 250 - 500mg/L (96h, Pimephales promelas) LC50: <1000mg/L (96h, Pimephales promelas)	-	EC50: >1000mg/L (48h, Daphnia magna)
Hydrogenated base oil 8042-47-5	-	LC50: >10000mg/L (96h, Lepomis macrochirus)	-	-
Hydrogenated base oil 72623-86-0	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)
Hydrogenated base oil 64742-47-8	-	LC50: =45mg/L (96h, Pimephales promelas) LC50: =2.2mg/L (96h, Lepomis macrochirus) LC50: =2.4mg/L (96h, Oncorhynchus mykiss)	-	-
Bis(2-ethylhexyl) maleate 142-16-5	-	LC50: >100mg/L (96h, Danio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

Component Information

Chemical name	Partition coefficient
Diisodecyl adipate	10.4

Amines, C12-14-alkyl, C6-10-alkyl phosphates	2.47
Hydrogenated base oil	6
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)-	7.6
Bis(2-ethylhexyl) maleate	7.24
2,2'-(octadec-9-enylimino)bisethanol	3.4

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT).

Chemical name	PBT and vPvB assessment
Hydrogenated base oil 72623-87-1	The substance is not PBT / vPvB
Hydrogenated base oil 72623-87-1	The substance is not PBT / vPvB
Diisodecyl adipate 27178-16-1	The substance is not PBT / vPvB
Phosphoric acid, mono- and di-C6-1o-alkyl esters 68307-94-8	The substance is not PBT / vPvB
Amines, C12-14-alkyl, C6-10-alkyl phosphates 68603-55-4	The substance is not PBT / vPvB
Hydrogenated base oil 8042-47-5	The substance is not PBT / vPvB
Hydrogenated base oil 72623-86-0	The substance is not PBT / vPvB
1,3,4-Thiadiazole-2(3O)-thione, 5-(.t-e"rtt-dodecyldithio)- 73984-93-7	The substance is not PBT / vPvB
Hydrogenated base oil 64742-47-8	The substance is not PBT / vPvB
Bis(2-ethylhexyl) maleate 142-16-5	The substance is not PBT / vPvB
2,2'-(octadec-9-enylimino)bisethanol 25307-17-9	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Recover or recycle if possible. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

IMDG Not regulated
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazards Not applicable
14.6 Special Precautions for Users
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID Not regulated
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 applicable
14.5 Environmental hazards Not applicable
14.6 Special Precautions for Users
Special Provisions None

ADR Not regulated
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazards Not applicable
14.6 Special Precautions for Users
Special Provisions None

IATA Not regulated
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not applicable
14.5 Environmental hazards Not applicable
14.6 Special Precautions for Users
Special Provisions None
Note: None

SECTION 15: Regulatory information

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Hydrogenated base oil 8042-47-5	RG 36bis

Hydrogenated base oil 64742-47-8	RG 84

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Hydrogenated base oil - 72623-87-1	28. 75.	-
Hydrogenated base oil - 72623-87-1	28. 75.	-
Hydrogenated base oil - 72623-86-0	28. 75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

EU - Plant Protection Products (1107/2009/EC)

Chemical name	EU - Plant Protection Products (1107/2009/EC)
Hydrogenated base oil - 8042-47-5	Plant protection agent
Hydrogenated base oil - 72623-86-0	Plant protection agent

International Inventories

Contact supplier for inventory compliance status

TSCA All components are listed on the TSCA Inventory

DSL/NDSL All components are listed either on the DSL or NDSL

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H350 - May cause cancer
H351 - Suspected of causing cancer
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
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend
ATE: Acute Toxicity Estimate
SVHC: Substances of Very High Concern for Authorisation:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB: Very Persistent and very Bioaccumulative (vPvB) Chemicals

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
SCBA	Self-contained breathing apparatus		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal

Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
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End of Safety Data Sheet