

according to Regulation (EC) No 1907/2006

SRS Wiolin HL 5 SAE 90

Revision date: 07.09.2023

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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

Use of the substance/mixture

gear oil

Uses advised against

none

1.3. Details of the supplier of the safety data sheet

1.4. Emergency telephone	Gift-Informationszentrum Nord (Göttingen) - Telefon 0551-19240
Responsible Department:	Abt. Produktsicherheit: info.reach@srs-oil.de
Telephone:	05976 - 945-0
Place:	D-48497 Salzbergen
Street:	Neuenkirchener Straße 8
Company name:	SRS Schmierstoff Vertrieb GmbH

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

2.3. Other hazards

This mixture contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

For information or further instructions, see also section 11 or 12.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization hydrocarbons. Additive

Hazardous components

CAS No	Chemical name				
	EC No	REACH No			
	Classification (Regulation (EC) No 1272/2008)				
68955-53-3	Amines, C12-14-tert-alkyl			0.1 - < 0.2 %	
	701-175-2 01-2119456798-18				
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H317 H400 H410				

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



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Specific Conc. Limits, M-factors and ATE

_ -				
CAS No	EC No	Chemical name	Quantity	
	Specific Conc. L	imits, M-factors and ATE		
68955-53-3	701-175-2	Amines, C12-14-tert-alkyl	0.1 - < 0.2 %	
	inhalation: LC50 = 1,19 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = 552 mg/kg Skin Sens. 1A; H317: >= 5 - 100			

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Do NOT induce vomiting. Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Never give anything by mouth to an unconscious person or a person with cramps. When in doubt or if symptoms are observed, get medical advice.

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

If swallowed or in the event of vomiting, risk of entering the lungs.

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

Sand. Foam. Carbon dioxide (CO2). Extinguishing powder. In case of major fire and large quantities: Water spray jet. Water mist.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO2) Sulphur dioxide (SO2) Nitrogen oxides (NOx)

5.3. Advice for firefighters

In case of fire and/or explosion do not breathe fumes. In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



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General advice

Ventilate affected area.

Special danger of slipping by leaking/spilling product.

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

For containment

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

No information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. (See section 8.) Avoid formation of oil dust.

Advice on protection against fire and explosion

Usual measures for fire prevention. Keep away from sources of ignition - No smoking. Fire class B

Advice on general occupational hygiene

Clean skin thoroughly after working.

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

Further information on handling

Do not breathe vapour/aerosol. Avoid contact with eyes and skin. General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product.

Hints on joint storage

Do not store together with: Gas. Explosives. Oxidizing substances. Radioactive substances. Infectious substances

Further information on storage conditions

Temperature control required. Protect from light. Keep container tightly closed. Do not allow contact with air.

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

CAS No	Name of agent					
DNEL type		Exposure route	Effect	Value		
68955-53-3	Amines, C12-14-tert-alkyl					
Consumer DN	EL, long-term	inhalation	systemic	2,5 mg/m³		
Consumer DNEL, long-term		inhalation	local	1,2 mg/m³		
Worker DNEL,	long-term	inhalation	systemic	12,5 mg/m³		
Worker DNEL, long-term		inhalation	local	12,1 mg/m ³		
,						

PNEC values

CAS No	Name of agent				
Environmenta	al compartment	Value			
68955-53-3	Amines, C12-14-tert-alkyl				
Freshwater		0,001 mg/l			
Freshwater (i	ntermittent releases)	0,004 mg/l			
Marine water		0 mg/l			
Freshwater sediment		2,14 mg/kg			
Marine sedim	ent	0,214 mg/kg			
Secondary poisoning		4,71 mg/kg			
Micro-organisms in sewage treatment plants (STP)		0,635 mg/l			
Soil		0.428 mg/kg			

Additional advice on limit values

Air limit values: Possibility of exposure to Aerosol (Mineral oil) Limit value (TLV-TWA) = 5 mg/ m3 - Source: ACGIH Limit value (TLV-STEL) = 10 mg/ m3 - Source: ACGIH

STEL: short-term exposure limits TLV: Threshold Limiting Value TWA: time weighted average ACGIH:American Conference of Governmental Industrial Hygienists

8.2. Exposure controls





Appropriate engineering controls Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

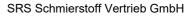
Eye/face protection

Safety goggles with side protection. In case of increased risk add protective face shield. EN 166

Hand protection

Use safety gloves of following materials: NBR (nitrile) / neopren / viton (permeationslevel 5 - 6), Cat. II according to norm EN 374/EN 388.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.



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For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Gloves must be periodically inspected and changed in case of wear, perforations or contaminations.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Oil-resistant and hardly inflammable protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-aerosol or mist formation

-Exceeding exposure limit values

Suitable respiratory protection apparatus: Respiratory equipment in case of nebulosity or aerosol: Use a mask with a filter type A2, A2/P2 or ABEK.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Thermal hazards

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather).

Environmental exposure controls

No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid		
Colour:	clear		
Odour:	characteristic		
			Test method
Melting point/freezing point:		No information available.	
Boiling point or initial boiling point and		No information available.	
boiling range:			
Flammability:		No information available.	
Lower explosion limits:		No information available.	
Upper explosion limits:		No information available.	
Flash point:		230 °C	DIN ISO 2592
Auto-ignition temperature:		No information available.	
Decomposition temperature:		No information available.	
pH-Value:		No information available.	
Viscosity / kinematic:		198 mm²/s	DIN EN ISO 3104
(at 40 °C)			
Water solubility:		Immiscible	
Solubility in other solvents			
No information available.			
Partition coefficient n-octanol/water:		No information available.	
Vapour pressure: (at 20 °C)		No information available.	
Vapour pressure:		No information available.	
(at 50 °C)			
Density (at 15 °C):		0,898 g/cm³	DIN 51757
Bulk density:		No information available.	
Relative vapour density:		No information available.	
Particle characteristics:		No information available.	



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9.2. Other information		
Information with regard to physical hazard classes		
Explosive properties		
none		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	No information available.	
Gas:	No information available.	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	No information available.	
Solvent separation test:	No information available.	
Solvent content:	No information available.	
Solid content:	No information available.	
Sublimation point:	No information available.	
Softening point:	No information available.	
Pour point:	-21 °C	ASTM
Viscosity / dynamic:	No information available.	
Flow time:	No information available.	

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known. Refer to chapter 10.5.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

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

Toxicocinetics, metabolism and distribution

No information available.

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



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CAS No	Chemical name								
	Exposure route	Dose		Species	Source	Method			
68955-53-3	-53-3 Amines, C12-14-tert-alkyl								
	oral	LD50 mg/kg	552	Rat	ECHA Dossier	OECD 401			
	dermal	LD50 mg/kg	251	Rat	ECHA Dossier	OECD 402			
	inhalation (4 h) vapour	LC50	1,19 mg/l	Rat	ECHA Dossier	OECD 403			
	inhalation dust/mist	ATE	0,05 mg/l						

Irritation and corrosivity

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

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

Sensitising effects

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

Skin sensitisation:

Amines, C12-14-tert-alkyl (Conc.= 5%)

Test results: not sensitizing. Method: Buehler Method OECD 406, Species: Guinea-pig. Literature information: Manufacturer

Carcinogenic/mutagenic/toxic effects for reproduction

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

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

11.2. Information on other hazards

Endocrine disrupting properties

This product does not contain a substance (> 0,1 %) that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

Frequent contact specially if dried out may cause skin and eye irritations.

SECTION 12: Ecological information

12.1. Toxicity

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

Amines, C12-14-tert-alkyl, (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated) -alkylamines:

A raw material containing these substance(s) has been tested/evaluated for environmentally hazardous properties with the result: H412. The raw material is present in the final product at less than 25%. Due to this, the product itself is not considered environmentally hazardous.



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CAS No	Chemical name							
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method	
68955-53-3	Amines, C12-14-tert-alkyl							
	Acute fish toxicity	LC50	1,3 mg/l	96 h	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 203	
	Acute algae toxicity	ErC50 mg/l	0,44	72 h	Pseudokirchnerella subcapitata	ECHA Dossier	OECD 201	
	Acute crustacea toxicity	EC50	4,1 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202	
	Fish toxicity	NOEC mg/l	0,078	96 d	Oncorhynchus mykiss	ECHA Dossier	OECD Guideline 210	
	Acute bacteria toxicity	EC50 mg/l()	63,5	0,5 h	activated sludge of a predominantly domestic sewage	ECHA Dossier	OECD Guideline 209	

12.2. Persistence and degradability

The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

CAS No	Chemical name					
	Method	Value	d	Source		
	Evaluation					
68955-53-3	Amines, C12-14-tert-alkyl					
	OECD 301D / EEC 92/69 annex V, C.4-E 22 % 28 ECHA Dossier					
	Not readily biodegradable (according to OECD criteria)					

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68955-53-3	Amines, C12-14-tert-alkyl	2,9

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No information available.

Further information

Ozone depletion potential (ODP): No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation. Consult the appropriate local waste disposal expert about



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waste disposal. Non-contaminated packages may be recycled. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

List of Wastes Code - contaminated packaging

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

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID) 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. 14.4. Packing group: No dangerous good in sense of this transport regulation. Inland waterways transport (ADN) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): 14.4. Packing group: No dangerous good in sense of this transport regulation. Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: No dangerous good in sense of this transport regulation. 14.2. UN proper shipping name: No dangerous good in sense of this transport regulation. 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. 14.4. Packing group: 14.5. Environmental hazards ENVIRONMENTALLY HAZARDOUS. No 14.6. Special precautions for user

Informations for safe handling see chapter 7. Informations for personal protective equipment see chapter 8.

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information	
Restrictions on use (REACH, annex	x XVII):
Entry 75	
Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.



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Information according to Directive 2012/18/EU (SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878) This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [CLP]. REACH 1907/2006 Appendix XVII, No (mixture): not relevant Observe in addition any national regulations!

National regulatory information

Water hazard class (D):

1 - slightly hazardous to water

Additional information

Regulation (EU) No. 649/2012 of the European parliament and of the council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment not applicable.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 15.

Rev.: 1,0 - 08.05.2015 Rev.: 1,1 - 20.05.2016 Rev.: 2,0 - 08.06.2017 Rev.: 3,0 - 28.06.2018 Rev.: 4.0 - 27.06.2019 Rev.: 5,0 - 29.06.2020; Changes in chapter: 2.2, 3.2, 11.1, 16 Rev.: 6.0 - 04.06.2021; Changes in chapter: 3.2, 6.1, 6.3, 11.2, 12.6, 12.7, 15.1, 16 Rev.: 7.0 - 14.06.2022, Changes in chapter: 2.3, 8.2, 12.1, 12.5, 12.6, 16 Rev.: 7.1 - 01.03.2023, Changes in chapter: 2.3, 3.2, 8.1, 9.1, 11.1, 12.1, 12.2, 12.3, 12.5, 15.1, 16 Rev.: 7.2 - 07.09.2023, Changes in chapter: 2.2, 3.2, 11.1, 11.2, 12.1, 14, 15, 16



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Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) CAS: Chemical Abstracts Service DNEL: Derived No Effect Level IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAFI : No observed adverse effect level NOAEC: No observed adverse effect concentration NTP: National Toxicology Program N/A: not applicable PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) SVHC: substance of very high concern TRGS Technische Regeln fuerGefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds WGK: Water Hazard Class (Germany) Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Sens: Skin sensitisation Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Further Information

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

Health hazards: Calculation method.

Environmental hazards: Calculation method.

Physical hazards: On basis of test data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



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