

according to Regulation (EC) No 1907/2006

SRS Bitaktol KS Plus

Revision date: 10.11.2023

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SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier SRS Bitaktol KS Plus 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture engine oil Uses advised against none 1.3. Details of the supplier of the safety data sheet Company name: SRS Schmierstoff Vertrieb GmbH Street: Neuenkirchener Straße 8 Place: D-48497 Salzbergen Telephone: 05976 - 945-0 Responsible Department: Abt. Produktsicherheit: info.reach@srs-oil.de Gift-Informationszentrum Nord (Göttingen) 1.4. Emergency telephone Telefon 0551-19240 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

EUH208	Contains C14-16-18 Alkyl phenol. May produce an allergic reaction.
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

Relevant ingredients

CAS No	Chemical name				
	EC No	Index No	REACH No		
	Classification (Regulation (EC) No 1272/2008)				
	Hydrocarbons, C14-C18, n-alkanes)%)	25 - < 30 %		
	920-360-0		01-2119448343-41		
	Asp. Tox. 1; H304 EUH066				
1190625-94-5	C14-16-18 Alkyl phenol			0.3 - < 0.5 %	
	931-468-2		01-2119498288-19		
	Skin Sens. 1B, STOT RE 2; H317 H373				

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

Specific Conc. Limits, M-factors and ATE



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CAS No	EC No	EC No Chemical name				
	Specific Conc. Limits, M-factors and ATE					
	920-360-0 Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)					
	inhalation: LC50 = >5,28 mg/l (dusts or mists); dermal: LD50 = >2000 mg/kg; oral: LD50 = > 4150 mg/kg					
1190625-94-5	5-94-5 931-468-2 C14-16-18 Alkyl phenol					
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg					

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 case of allergic symptoms, especially in the breathing area, seek medical advice immediately.

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



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6.1. Personal precautions, protective equipment and emergency procedures

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 precautionary 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). Treat the recovered material as prescribed in the section on waste disposal.

For cleaning up

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. Contaminated work clothing should not be allowed out of the workplace.

Wash contaminated clothing before reuse.

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 solids. Oxidizing liquids. 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.



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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
1190625-94- 5	C14-16-18 Alkyl phenol			
Worker DNEL,	long-term	inhalation	systemic	1,17 mg/m³
Worker DNEL,	long-term	dermal	systemic	0,3 mg/kg bw/day
PNEC values				

PNEC values

CAS No	Name of agent			
Environmental compartment Value				
1190625-94- C14-16-18 Alkyl phenol 5				
Freshwater	Freshwater			
Freshwater (intermittent releases)		1 mg/l		
Marine water		0,01 mg/l		
Freshwater sediment		4266 mg/kg		
Marine sedime	Marine sediment			
Secondary poisoning		100 mg/l		
Soil		852,58 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

-	 Information on basic physical and cher 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:		115 °C	DIN EN ISO 2719
	Auto-ignition temperature:		No information available.	
	Decomposition temperature:		No information available.	
	pH-Value:		No information available.	
	Viscosity / kinematic:		56,9 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:		No information available.	
	(at 20 °C)			
	Vapour pressure: (at 50 °C)		No information available.	
	Density (at 15 °C):		0,894 g/cm ³	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:	-42 °C ISO 3016
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

CAS No	Chemical name						
	Exposure route	Dose	Species	Source	Method		
	Hydrocarbons, C14-C18,	n-alkanes, isoalkanes, cy	clics, aromatics (2-30 %)				



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		LD50 mg/kg	> 4150	Rat	ECHA Dossier			
		LD50 mg/kg	>2000	Rabbit	ECHA Dossier			
	()	LC50 mg/l	>5,28	Rat	ECHA Dossier			
1190625-94- 5	C14-16-18 Alkyl phenol	C14-16-18 Alkyl phenol						
	oral	LD50 mg/kg	>2000	Rat	ECHA Dossier			
	dermal	LD50 mg/kg	>2000	Rat	ECHA Dossier			

Irritation and corrosivity

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

Sensitising effects

Based on available data, the classification criteria are not met. Contains C14-16-18 Alkyl phenol. May produce an allergic reaction. May cause sensitisation especially in sensitive humans.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %): In vitro mutagenicity/genotoxicity: Method: OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) Result: negative.; Literature information: REACH Dossier

Carcinogenicity: Method: OECD Guideline 451 (Carcinogenicity Studies) Result: negative.; Literature information: REACH Dossier Reproductive toxicity: Species:7 Rat Method: OECD Guideline 416 (Two-Generation Reproduction Toxicity Study) Results: NOAEL >300 mg/kg; Literature information: REACH Dossier

Developmental toxicity/teratogenicity:

Species: Rat Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study) Results: NOAEL 1000 mg/kg; Literature information: REACH Dossier

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. Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %): Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat Results: NOAEL 750 mg/kg; Literature information: REACH Dossier

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.



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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.

CAS No	Chemical name									
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method			
	Hydrocarbons, C14-C18,	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)								
	Acute fish toxicity	LC50 1000 mg/l	LL50 >	96 h		ECHA Dossier				
	Acute crustacea toxicity	EC50 1000 mg/l	EL50 >	48 h	Daphnia magna	ECHA Dossier				
	Fish toxicity	NOEC 5000 mg/l	EL50 >	21 d		ECHA Dossier				
	Crustacea toxicity	NOEC 1400 mg/l	EL50 >	21 d	Daphnia magna	ECHA Dossier				
1190625-94- 5	C14-16-18 Alkyl phenol	-								
	Acute fish toxicity	LC50 mg/l	>100	96 h	Cyprinus carpio					
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna					

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	Chemical name						
	Method Value d Source							
	Evaluation							
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)							
	OECD Guideline 301 F 60,7% 28 ECHA Dossier							
	Readily biodegradable (according to OECD criteria).							

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	AS No Chemical name	
	Hydrocarbons, C14-C18, n-alkanes, isoalkanes, cyclics, aromatics (2-30 %)	> 3,5

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%.



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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 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.

No dangerous good in sense of this transport regulation.

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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: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

14.6. Special precautions for user

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

No

14.7. Maritime transport in bulk according to IMO instruments

not relevant

SECTION 15: Regulatory information

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

EU regulatory information	
Directive 2010/75/EU on industrial emissions:	No information available.
Directive 2004/42/EC on VOC in paints and varnishes:	No information available.
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

1 - slightly hazardous to water

Water hazard class (D): Additional information

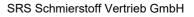
Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals: not relevant

15.2 Chemical Safety Assessment not applicable.

SECTION 16: Other information

Changes

Rev.: 1,0 - 13.04.2015 Rev.: 1,01 - 28.04.2015 Rev.: 1,10 - 02.05.2016 Rev.: 1,20 - 28.10.2016 Rev.: 2,00 - 13.10.2017 Rev.: 3,00 - 16.10.2018 Rev.: 4,00 - 16.10.2019 Rev.: 5,00 - 09.10.2020; Changes in chapter: 16 Rev.: 6,00 - 14.10.2021, Changes in chapter: 3.2, 6.1, 6.3, 8.1, 11.2, 12.1, 12.6, 12.7, 15.1, 16 Rev.: 7.00 - 21.11.2022, Changes in chapter: 2.3, 12.5, 12.6, 16 Rev.: 8,00 - 10.11.2023, Changes in chapter: 2.3, 9.1, 11.2, 12.1, 12.5, 12.7, 16





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Abbreviations and acronyms Asp. Tox: Aspiration hazard Skin Sens: Skin sensitisation STOT RE: Specific target organ toxicity - repeated exposure 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 NOAEL: 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) Relevant H and EUH statements (number and full text) H304 May be fatal if swallowed and enters airways. H317 May cause an allergic skin reaction. H373 May cause damage to organs through prolonged or repeated exposure. EUH066 Repeated exposure may cause skin dryness or cracking. EUH208 Contains C14-16-18 Alkyl phenol. May produce an allergic reaction. 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.

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