

according to Regulation (EC) No 1907/2006

	coolTec III (Lubrikant Olb	asis)	
Revision date: 12.07.2023	Product code:		Page 1 of 11
SECTION 1: Identification of the	substance/mixture and of the compa	ny/undertaking	
1.1. Product identifier coolTec III (Lubrikant Ölbasis)		
REACH Registration Number:	01-2119487078-27-XXXX		
CAS No:	8042-47-5		
EC No:	232-455-8		
.2. Relevant identified uses of the	substance or mixture and uses advised a	<u>igainst</u>	
Use of the substance/mixture			
Lubricants and diluents, meta	llographic sample preparation.		
Uses advised against			
Any non-intended use.			
1.3. Details of the supplier of the sa	afety data sheet		
Company name:	Schmitz-Metallographie GmbH		
Street:	Kaiserstraße 100		
Place:	D-52134 Herzogenrath		
Telephone:	02407 / 568296-0	Telefax:02407 / 568296-9	
E-mail:	info@schmitz-metallographie.de		
Contact person:	Herr Füllmann		
E-mail:	info@schmitz-metallographie.de		
Internet:	www.schmitz-metallographie.de		

1.4. Emergency telephone

number:

Further Information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878)

02407 / 568296-0 (Mo-Fr 9:00 - 16:00)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Asp. Tox. 1; H304

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word:

Pictograms:



Danger

Hazard statements

H304

May be fatal if swallowed and enters airways.

Precautionary statements

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to local/regional/national/international regulations.

2.3. Other hazards



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The substances in the mixture (> 0.1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII. This product does not contain a substance (> 0,1%) that has endocrine disrupting properties with respect to humans as no components meets the criteria. 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.

SECTION 3: Composition/information on ingredients

3.1. Substances

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No	1272/2008)		
8042-47-5	White mineral oil (petroleum)			99 - < 100 %
	232-455-8		01-2119487078-27-XXX	XX
	Asp. Tox. 1; H304			

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

Specific Conc. Limits, M-factors and ATE CAS No EC No Chemical name Quantity Specific Conc. Limits, M-factors and ATE Specific Conc. Limits, M-factors and ATE Specific Conc. Limits, M-factors and ATE 8042-47-5 232-455-8 White mineral oil (petroleum) 99 - < 100 %</td> inhalation: LC50 = >5 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 5000 mg/kg Specific Conc. Limits, M-factors and ATE Specific Conc. Limits, M-factors and ATE Specific Conc. Limits, M-factors and ATE

Further Information

Product does not contain listed SVHC substances > 0.1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

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 respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. 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). Observe risk of aspiration if vomiting occurs. 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. Always assume that aspiration has occurred. Seek professional medical attention or send the casualty to a hospital. Do not wait for symptoms to develop.

4.2. Most important symptoms and effects, both acute and delayed Inhalation can cause damage to the respiratory tract or lungs.

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

Treat symptomatically.



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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

Can be released in case of fire: Carbon monoxide. Carbon dioxide (CO2).

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

General advice

Safe handling: see section 7

For non-emergency personnel

Wear personal protection equipment (refer to section 8).

For emergency responders

No special measures are necessary.

6.2. Environmental precautions

Discharge into the environment must be avoided.

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 objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. When using do not eat, drink or smoke. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.



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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.

Make sure spills can be contained (e.g. sump pallets or kerbed areas).

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 20 °C Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
8042-47-5	White mineral oil (petroleum)			
Worker DNEL,	, long-term	inhalation	systemic	164,56 mg/m ³
Worker DNEL,	, long-term	dermal	systemic	217,05 mg/kg bw/day
Consumer DN	EL, long-term	inhalation	systemic	34,78 mg/m ³
Consumer DN	EL, long-term	dermal	systemic	93,02 mg/kg bw/day
Consumer DN	EL, long-term	oral	systemic	25 mg/kg bw/day

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls



Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). EN 166

Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm



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Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h 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. The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it. Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well. Skin protection

Suitable protective clothing: Lab apron.

Respiratory protection

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

Respiratory protection necessary at:

-Exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). type: P1-3

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. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	liquid colourless characteristic	
Odour threshold:	not determined	
		Test method
Melting point/freezing point:	not determine	1
Boiling point or initial boiling point and boiling range:	not determine	l
Flammability:	not determine	I
Lower explosion limits:	not determine	1
Upper explosion limits:	not determine	I
Flash point:	187 °(DIN ISO 2592
Auto-ignition temperature:	not determine	I
Decomposition temperature:	not determine	1
pH-Value:	not determine	I
Viscosity / kinematic: (at 40 °C)	15,6 mm²/	S ASTM D 7042
Water solubility:	practically insoluble	;
Solubility in other solvents		
not determined		



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Dissolution rate:	not relevant	
Partition coefficient n-octanol/water:	SECTION 12: Ecological information	
Dispersion stability:	not relevant	
Vapour pressure:	<0,1 hPa	
(at 20 °C)		
Density (at 15 °C):		DIN 51757
Bulk density:	not determined	
Relative vapour density:	not determined	
Particle characteristics:	not relevant	
9.2. Other information		
Information with regard to physical hazard classes		
Explosive properties		
none		
Sustaining combustion:	Not sustaining combustion	
Self-ignition temperature		
Solid:	not relevant	
Gas:	not relevant	
Oxidizing properties		
none		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	not determined	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		

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

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

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



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Toxicocinetics, metabolism and distribution

No data available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8042-47-5	White mineral oil (petrole	um)			
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD 401
	dermal	LD50 > 2000 mg/kg	Rabbit	ECHA Dossier	OECD 402
	inhalation (4 h) dust/mist	LC50 >5 mg/	l Rat		

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.

Carcinogenic/mutagenic/toxic effects for reproduction

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

White mineral oil (petroleum):

In-vitro mutagenicity: Method: OECD Guideline 471 (Bacterial Reverse Mutation Assay); Result: negative.; Literature information: ECHA Dossier; Carcinogenicity: Method: (oral.) OECD Guideline 453 Combined Chronic Toxicity / Carcinogenicity Studies); Species: Rat; Length of test: 2 years; Result: NOAEL = 1200 mg/kg; Literature information: ECHA Dossier; Reproductive toxicity: Method: OECD Guideline 421 (Reproduction / Developmental Toxicity Screening Test); Species: Rat ; Results: NOAEL >= 1000 mg/kg. Literature information: ECHA Dossier; Developmental toxicity/teratogenicity: Method: OECD Guideline 414 (Prenatal Developmental Toxicity Study); Species: Rat; Results: NOAEL >= 5000 mg/kg; Literature information: ECHA 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.

White mineral oil (petroleum):

Subchronic oral toxicity: Method: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents) Species: Rat ; Results: NOAEL = 20000 ppm. Literature information: ECHA Dossier; Subchronic dermal toxicity: Method: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study); Species: Rat.; Results: NOAEL >2000 mg/kg; Literature information: ECHA Dossier

Aspiration hazard

May be fatal if swallowed and enters airways.

Specific effects in experiment on an animal

No data available.

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 humans as no components meets the criteria.

Other information

No data available.

SECTION 12: Ecological information



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12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] [d]	Species	Source	Method
8042-47-5	White mineral oil (petroleu	m)					
	Acute fish toxicity	LC50 mg/l	> 10000	96 h	Lepomis macrochirus	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	> 100	48 h	Daphnia magna	ECHA Dossier	OECD 202

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8042-47-5	White mineral oil (petroleum)			
	OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D	31,3%	28	
	Product is not easily biodegradable.			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8042-47-5	White mineral oil (petroleum)	> 6

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of 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 substance does not have endocrine disrupting properties with respect to non-target organisms. The aforementioned statement applies to substances contained in the product with a minimum content of 0.1%.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products



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130205	CHAPTERS 05, 12 AND	TES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated ing oils; hazardous waste	
List of Waste 130205	CHAPTERS 05, 12 AND	TES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated ing oils; hazardous waste	
List of Waste 150110	PROTECTIVE CLOTHIN	BSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND G NOT OTHERWISE SPECIFIED; packaging (including separately aging waste); packaging containing residues of or contaminated by	
Contaminated Handle co		e same way as the substance itself.	
SECTION 14: T	ransport information		
Land transport (ADR/RID)		
	ber or ID number:	No dangerous good in sense of this transport regulation.	
	er shipping name:	No dangerous good in sense of this transport regulation.	
	ort hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing		No dangerous good in sense of this transport regulation.	
Inland waterway	s transport (ADN)		
-	ber or ID number:	No dangerous good in sense of this transport regulation.	
	er shipping name:	No dangerous good in sense of this transport regulation.	
	rt hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing		No dangerous good in sense of this transport regulation.	
Marine transport			
-	iber or ID number:	No dangerous good in sense of this transport regulation.	
	per shipping name:	No dangerous good in sense of this transport regulation.	
	ort hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing		No dangerous good in sense of this transport regulation.	
	AO-TI/IATA-DGR)		
• •	ber or ID number:	No dangerous good in sense of this transport regulation.	
	er shipping name:	No dangerous good in sense of this transport regulation.	
	ort hazard class(es):	No dangerous good in sense of this transport regulation.	
14.4. Packing		No dangerous good in sense of this transport regulation.	
14.5. Environme			
ENVIRONME	NTALLY HAZARDOUS:	No	
	cautions for user		
	apter 6 - 8		
	ansport in bulk according	to IMO instruments	
not releva	nt		
SECTION 15: R	egulatory information		
15.1. Safety, hea	Ith and environmental reg	ulations/legislation specific for the substance or mixture	
EU regulatory	/ information		

Restrictions on use (REACH, annex XVII): Entry 3 2010/75/EU (VOC):

not determined



	Schmitz-Metallogra	aphie GmbH
Schmitz	Safety Data Sheet	
etallographie GmbH	according to Regulation (EC) No 1907/2006	
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2004/42/EC (VOC):	not determined	
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)	
	Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No 2020/878) rdous according to regulation (EC) No 1272/2008 [CLP]. II, No (mixture): 3	
National regulatory information		
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juver work protection guideline' (94/33/EC).	nile
Water hazard class (D):	1 - slightly hazardous to water	
5.2. Chemical safety assessment		
For this substance a chemical sa	fety assessment has not been carried out.	
ECTION 16: Other information		
concerning the International Carr AGW: Arbeitsplatzgrenzwert CAS: Chemical Abstracts Service CLP: Classification, Labelling and DNEL: Derived No Effect Level d: day(s) EINECS: European INventory of ELINCS: European Llst of Notifie ECHA: European Chemicals Age EWC: European Waste Catalogu	d Packaging of substances and mixtures Existing Commercial chemical Substances d Chemical Substances ncy	

N/A: not applicable

OECD: Organisation for Economic Co-operation and Development

PNEC: predicted no effect concentration

PBT: Persistent bioaccumulative toxic

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail





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REACH: Registration, Evaluation, Authorisation of Chemicals SVHC: substance of very high concern TRGS: Technische Regeln für Gefahrstoffe UN: United Nations VOC: Volatile Organic Compounds WGK: Water Hazard Class (Germany)

Relevant H and EUH statements (number and full text)

May be fatal if swallowed and enters airways.

Further Information

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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.