Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Article No. (manufacturer/supplier):	51000170
Identification of the substance or mixture	TREDONIT 300 CLEAR - SKUT 0000 T300000EE5

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

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

Wilckens Farben GmbH
Schmiedestrasse 10
D-25348 Glückstadt

Telephone: +49 4124 606-0
Telefax: +49 4124 1537

Dept. responsible for information:
laboratory
E-mail (competent person) lab@wilckens.com

1.4. Emergency telephone number

Emergency telephone number +49 4124 606 188

2. Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms

Warning

Hazard statements

H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing vapours.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P501.W1	Content / container disposal in accordance with national official regulations

contains:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Supplemental Hazard information (EU)

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Cobaltbis(2-ethylhexanoate); 2-ethylhexanoic acid, Zirconiumsalt; 2-butanone oxime.May

produce an allergic reaction.

2.3. **Other hazards**

3. Composition / Information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description alkyd resin paint

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
927-241-2 64742-48-9	01-2119471843-32-XXXX Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 3 H412	20 < 25
918-481-9 64742-48-9 649-327-00-6	01-2119457273-39-XXXX Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1 H304 / STOT SE 3 H336	12,5 < 20
919-857-5 64742-48-9	01-2119463258-33-XXXX Naphtha (petroleum), hydrotreated heavy Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	5 < 10
918-668-5	01-2119455851-35-XXXX solvent naphta, light aromatic, benzene content <0,1% Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	2,5 < 5
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32-XXXX xylene Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H335	1 < 2,5
245-018-1 22464-99-9	01-2119979088-21-0000 2-ethylhexanoic acid, Zirconiumsalt Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Repr. 2 H361	< 0,5
202-496-6 96-29-7 616-014-00-0	01-2119539477-28-XXXX 2-butanone oxime Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	< 0,5
205-250-6 136-52-7	Cobaltbis(2-ethylhexanoate) Acute Tox. 4 H302 / Skin Sens. 1 H317 / Repr. 2 H361 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	< 0,5

Additional information

Full text of H-phrases: see section 16.

4. First-aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

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

5. Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

6. Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see chapter 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:
Vapours are heavier than air. Vapours form explosive mixtures with air.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storage rooms and vessels
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Take care of instructions on label. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**
Observe technical data sheet. Observe instructions for use.

8. Exposure controls / Personal protection

8.1. **Control parameters**
Occupational exposure limit values:

xylene, mixture of isomers
INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7
IOELV, TWA: 221 mg/m3; 50 ppm
IOELV, STEL: 442 mg/m3; 100 ppm

solvent naphta, light aromatic benzene < 0.1%
EC No. 918-668-5
TWA: 100 mg/m3

Additional information
TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

Naphtha (petroleum), hydrotreated heavy
EC No. 919-857-5 / CAS No. 64742-48-9
DNEL long-term dermal (systemic), Workers: 208 mg/kg
DNEL long-term inhalative (systemic), Workers: 871 mg/m³
DNEL short-term oral (acute), Consumer:
DNEL long-term dermal (systemic), Consumer: 125 mg/kg
DNEL long-term inhalative (systemic), Consumer: 185 mg/m³

8.2. **Exposure controls**
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection
If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection
For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection
Wear closely fitting protective glasses in case of splashes.

Protective clothing
Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

9. Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:

Physical state	liquid
Colour	refer to label
Odour	characteristic

Safety relevant basis data		**Unit**	**Method**	**Remark**
Flash point:	36	°C	DIN 53213-1 (08/2002: replaced by EN ISO 1523)	
Ignition temperature in °C:	240	°C		
Lower explosion limit:	0,6	Vol-%		
Upper explosion limit:	7,0	Vol-%		
Vapour pressure at 20 °C:	0,33	mbar		
Density at 20 °C:	0,90	g/cm³		
Water solubility (g/L):	insoluble			
pH at 20 °C:	-			
Viscosity at 20 °C	200 s 4 mm		TM 33a	
Solvent separation test (%)	< 3	%		
Solid content (%):	47	Wt %		
solvent content:				
Organic solvents:	52	Wt %		
Water:	0	Wt %		

9.2. **Other information:**

10. Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

solvent naphta, light aromatic, benzene content <0,1%
oral, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 2000 mg/kg
inhalative (Gases), LC50, Rat: > 5 ppmV (4 h)

xylene
oral, LD50, Rat: 3523 - 8700 mg/kg
dermal, LD50, Rat:
dermal, LD50, Rabbit: > 2000 mg/kg

2-butanone oxime
oral, LD50, Rat: 2528 mg/kg
dermal, LD50, Rat: > 900 mg/kg
inhalative (Gases), LC50, Rat: 10,5 ppmV (4 h)

skin corrosion/irritation; Serious eye damage/eye irritation

xylene
Skin (4 h)
Eyes

Respiratory or skin sensitisation

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-ethylhexanoic acid, Zirconiumsalt
Reproductive toxicity

Specific target organ toxicity

solvent naphta, light aromatic, benzene content <0,1%
Specific target organ toxicity (single exposure), Irritation:
Specific target organ toxicity (single exposure), drowsiness:

xylene
Specific target organ toxicity (single exposure), Irritation:
Specific target organ toxicity (repeated exposure):

Aspiration hazard

solvent naphta, light aromatic, benzene content <0,1%
Aspiration hazard

xylene
Aspiration hazard

Naphtha (petroleum), hydrotreated heavy
Aspiration hazard
Aspiration hazard

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics
Aspiration hazard

Practical experience/human evidence

Other observations:
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

SECTION 12: Ecological information

overall evaluation
Classification according to Regulation (EC) No. 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

solvent naphta, light aromatic, benzene content <0,1%
Fish toxicity, LC50: 9,22 mg/L (96 h)
Daphnia toxicity, EC50: 6,14 mg/L (48 h)

xylene
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 - 165 mg/L (48 h)
Algae toxicity, IC50:, Algae: (72)

Naphtha (petroleum), hydrotreated heavy
Fish toxicity, LC50: > 1000 mg/L (96 h)
Daphnia toxicity, EC50: > 1000 mg/L (48 h)
Algae toxicity, ErC50: > 1000 mg/L

2-butanone oxime
Fish toxicity, LC50: > 100 mg/L (96 h)
Daphnia toxicity, EC50: 201 mg/L (48 h)
Algae toxicity, ErC50: 11,8 mg/L

Long-term Ecotoxicity

solvent naphta, light aromatic, benzene content <0,1%
Fish toxicity, LC50: (96 h)

xylene
Fish toxicity, LC50, Lepomis macrochirus (Bluegill): (96 h)

Naphtha (petroleum), hydrotreated heavy
Fish toxicity, NOEC: 0,131 mg/L
Daphnia toxicity, NOEC: 0,23 mg/L

12.2. **Persistence and degradability**
Toxicological data are not available.

12.3. **Bioaccumulative potential**

Naphtha (petroleum), hydrotreated heavy
Distribution coefficient (n-octanol / water) (log P O/W): 5 - 6,7

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. **Mobility in soil**
Toxicological data are not 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.

12.6. **Other adverse effects**

13. Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC

080111	waste paint and varnish containing organic solvents or other dangerous substances

packaging
Recommendation
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

14.1. **UN number**

1263

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):	Paint

14.3. **Transport hazard class(es)**

Land transport (ADR/RID):	NO GOODS CLASS 3 in case container size > 450 L class 3
Sea transport (IMDG) for packages < 30 litres:	3 Transport in accordance with 2.3.2.5 of the IMDG Code.
Air transport (ICAO-TI / IATA-DGR)	3

14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID)	n.a.
Marine pollutant	n.a.

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Additional information

Land transport (ADR/RID)

tunnel restriction code	D/E

Sea transport (IMDG)

EmS-No.	F-E, S-E

14.7. **Transport in bulk according to Annex II of MARPOL and the IBC Code**

not applicable

15. Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2:	474
VOC-value (in g/L) ASTM D-3960-1:	474

National regulations

Restrictions of occupation
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. **Chemical Safety Assessment**
For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
215-535-7 1330-20-7	xylene, mixture of isomers	01-2119488216-32-XXXX
919-857-5 64742-48-9	Naphtha (petroleum), hydrotreated heavy	01-2119463258-33-XXXX
918-668-5	solvent naphta, light aromatic benzene < 0.1%	01-2119455851-35-XXXX
927-241-2 64742-48-9	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% a	01-2119471843-32-XXXX

SECTION 16: Other information

Full text of classification in section 3:

Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of

		exposure cause the hazard).
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.