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<b>1. Section 1. Identification of the substance/mixture and of the company/undertaking:</b>		
1.1. Product identifier:	<b>U. C. UNDERCOATING R 34481-2</b>	
1.2. Relevant identified uses of the substance or mixture and uses advised against:	Surface protection	
Sectors of use:		
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites	
SU21	Consumer uses: Private households (= general public = consumers)	
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)	
Process categories:		
PROC7	Industrial spraying	
PROC11	Non industrial spraying	
Application of the substance / the mixture:	Surface protection	
1.3. Details of the supplier of the safety data sheet		
Identification of manufacturer/Supplier:	RETECH, s.r.o. Vackova 1541/4 150 00 Praha-5 Stodůlky	
Telephone/Fax:	+420 327 596 128, +420 327 596 428	
Information:	<a href="mailto:info@retech.cz">info@retech.cz</a>	
1.4. Emergency telephone number:	RETECH Suchdol 212, Suchdol u Kutné Hory Tel.+420 327 596 128 (7.30-16.00 hour) Toxicology information number, Na bojišti 1, 128 08 PRAHA 2 Tel. +420 224 919 293, +420 224 915 402 (24 hours a day)	
<b>2. Section 2. Hazard identification:</b>		
2.1. Classification of the substance or mixture:		
Classification according to Regulation (EC) No 1272/2008 [CLP]:		
Flam. Liq. 2	H225 Highly flammable liquid and vapour.	
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.	
STOT SE 3	H336 May cause drowsiness or dizziness.	
Classification according to Directive 67/548/EEC or Directive 1999/45/EC:		
F Highlyflammable	R11 Highly flammable.	
N Dangerous for the environment	R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
	R66 Repeated exposure may cause skin dryness or cracking.	
	R67 Vapours may cause drowsiness and dizziness.	
2.2. Label elements:		
Labelling according to Regulation (EC) No 1272/2008 [CLP]:		
GHS02	GHS07	GHS09
		
Signal word: Danger		
Hazard statements:		
H225 Highly flammable liquid and vapour.		
H336 May cause drowsiness or dizziness.		
H411 Toxic to aquatic life with long lasting effects.		
Precautionary statement:		
P101 If medical advice is needed, have product container or label at hand.		

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<p>P102 Keep out of reach of children.  P103 Read label before use.  P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P233 Keep container tightly closed.  P273 Avoid release to the environment.  P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.  P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  P403+P233 Store in a well-ventilated place. Keep container tightly closed.  P403+P235 Store in a well-ventilated place. Keep cool.  P501 Dispose of contents/container in accordance with national regulation.</p> <p>Supplemental Hazard information:  EUH066 Repeated exposure may cause skin dryness or cracking.</p> <p>Contained dangerous substances: 64742-49-0 Naphtha (petroleum), hydrotreated light</p>								
2.3.	<p>Other hazards:  Results of PBT and vPvB assessment:  PBT: Not applicable  vPvB: Not applicable</p>							
<b>3.</b>	<b>Section 3. Composition/information on ingredients:</b>							
3.2.	<p>Mixtures:  Description of the mixture: Active substance</p> <p>Hazardous ingredients:</p> <table border="1"> <tr> <td>CAS: 64742-49-0 EINECS: 265-151-9 EC number: 920-750-0 Reg.nr.: 01-2119473851-33</td> <td>Naphtha (petroleum), hydrotreated light (contains less than 0.1% benzene) F R11; Xn R65; N R51/53; R66; R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336</td> <td>25-&lt;50%</td> </tr> <tr> <td>CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32</td> <td>Xylene (mixture of isomers) R10; Xn R20/21; Xi R38 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</td> <td>2.5-&lt;10%</td> </tr> </table> <p>For full text of H-statements and R-phrases: see SECTION 16.</p>		CAS: 64742-49-0 EINECS: 265-151-9 EC number: 920-750-0 Reg.nr.: 01-2119473851-33	Naphtha (petroleum), hydrotreated light (contains less than 0.1% benzene) F R11; Xn R65; N R51/53; R66; R67 Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	25-<50%	CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	Xylene (mixture of isomers) R10; Xn R20/21; Xi R38 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-<10%
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<b>4.</b>	<b>Section 4. First aid measures:</b>							
4.1.	<p>Description of first aid measures:</p> <p>After inhalation: Supply fresh air. Consult a doctor in case of symptoms.  After skin contact: Wash skin with water and soap. Generally the product does not irritate the skin.  After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  After swallowing: Do not induce vomiting. Rinse mouth with plenty of water. Call for a doctor immediately.</p>							
4.2.	<p>Most important symptoms and effects, both acute and delayed:  No further relevant information available.</p>							
4.3.	<p>Indication of any immediate medical attention and special treatment needed:  No further relevant information available.</p>							
<b>5.</b>	<b>Section 5. Fire fighting measures:</b>							
5.1.	<p>Extinguishing media:  Suitable extinguishing agents: Water haze, fire-extinguishing powder, carbon dioxide, alcohol resistant foam.  For safety reasons unsuitable extinguishing agents: Water with full jet.</p>							

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5.2.	Special hazards arising from the substance or mixture:	No further relevant information available.															
5.3.	Advice for firefighters:	Wear protective clothing and self-contained breathing apparatus.															
<b>6. Section 6. Accidental release measures:</b>																	
6.1.	Personal precautions, protective equipment and emergency procedures:	Wear protective equipment see Section 8.2. Keep unprotected persons away. Ensure adequate ventilation.															
6.2.	Environmental precautions:	Do not allow to enter sewage system, surface or ground water. Prevent seepage into sewage system, workpits and cellars. Inform respective authorities in case of seepage into water course or sewage system.															
6.3.	Methods and material for containment and cleaning up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents. Dispose contaminated material as waste according to Section 13.															
6.4.	Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.															
<b>7. Section 7. Handling and storage:</b>																	
7.1.	Information for safe handling:	Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.															
	Measures to prevent fire:	Keep ignition sources away - Do not smoke. Protect against electrostatic charges.															
7.2.	Conditions for safe handling, including any incompatibilities:																
	Technical measures and storage conditions:	Observe official regulations on storing packagings with pressurized containers.															
	Requirements for storage rooms and vessels:	Store in a cool location.															
	Further information on storage conditions:	Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.															
7.3.	Specific end use(s):	No further relevant information available.															
<b>8. Section 8. Exposure controls and personal protection:</b>																	
8.1	Control parameters:																
	Components with limit values that require monitoring at the workplace:																
	WEL (EH40/2005):																
		<table border="1"> <thead> <tr> <th></th> <th colspan="2">Long-term (8h TWA)</th> <th colspan="2">Short-term (STEL)</th> <th></th> </tr> </thead> <tbody> <tr> <td>1130-20-7 Xylene (mix of isomers)</td> <td>220 mg/m<sup>3</sup></td> <td>50 ppm</td> <td>441 mg/m<sup>3</sup></td> <td>100 ppm</td> <td>Sk, BMGV</td> </tr> </tbody> </table>		Long-term (8h TWA)		Short-term (STEL)			1130-20-7 Xylene (mix of isomers)	220 mg/m <sup>3</sup>	50 ppm	441 mg/m <sup>3</sup>	100 ppm	Sk, BMGV			
	Long-term (8h TWA)		Short-term (STEL)														
1130-20-7 Xylene (mix of isomers)	220 mg/m <sup>3</sup>	50 ppm	441 mg/m <sup>3</sup>	100 ppm	Sk, BMGV												
	* Sk - Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.																
	OEL (2000/39/EC):																
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1130-20-7 Xylene (mix of isomers)	221 mg/m <sup>3</sup>	50 ppm	442 mg/m <sup>3</sup>	100 ppm	Skin												
	DNELs																
	64742-49-0 Naphtha (petroleum), hydrotreated light																
	Oral	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)														
	Dermal	DNEL Long term-systemic	699 mg/kg bw/day (Consumer)														
			773 mg/kg bw/day (Worker)														

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Inhalative	DNEL Long term-systemic	608 mg/m <sup>3</sup> (Consumer) 2035 mg/m <sup>3</sup> (Worker)
Ingredients with biological limit values: Biological limit values (EH40/2005):		
<b>BMGV</b>		
1330-20-7 Xylene (mix of isomers)	650 mmol/mol creatinine	Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
Additional information: The lists that were valid during the compilation were as basis.		
8.2	Exposure controls:	
	Personal protection equipment:	
	Breathing equipment:	Use suitable respiratory protective device in case of insufficient ventilation. In case of brief exposure or low pollution use respiratory filter device (filter AX/P2). In case of intensive or longer exposure use self-contained respiratory protective device.
	Eye protection:	Tightly sealed goggles
	Protection of hands:	Solvet resistant gloves Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Material of gloves: Nitrile rubber, NBR Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
	Protection of skin:	Protective suit.
	General protective and hygienic measures:	Wash hands before breaks and at the end of work. Do not inhale gases/ fumes/ aerosols.

<b>9.</b>	<b>Section 9. Physical and chemical properties:</b>	
	Appearance:	
	Form:	Fluid
	Colour:	Grey/ black
	Odour:	Characteristic
	Odour threshold:	Not determined
	Value pH:	Not determined
	Melting point/freezing point:	Not determined
	Boiling point/boiling range:	98 °C
	Flash point:	2 °C
	Evaporation rate:	Not applicable
	Flammability (solid, gas):	Not applicable
	Ignition temperature:	200 °C
	Explosive properties:	The product is not explosive. However, formation of explosive air/steam mixtures is possible.
	Explosive limits: lower:	0.7 Vol %
	upper:	7.0 Vol %
	Vapour pressure at 20°C:	30 hPa
	Vapour density at 20 °C:	Not determined
	Density at 20°C:	1.055 g/cm <sup>3</sup>
	Relative density:	Not determined
	Solubility in/miscibility with:	
	- water	Not miscible or difficult to mix.
	Partition coefficient (n-octanol/water):	Not determined
	Decomposition temperature:	Not determined
	Self-igniting:	The product is not selfigniting.
	Viscosity:	
	- Dynamic at 20 °C	8000 mPa.s

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9.2.	Oxidising properties:	Not determined
	Other information:	
	Organic solvents:	50.7 %
	Solid content:	48.3 %
	VOC:	534.9 g/l

<b>10.</b>	<b>Section 10. Stability and reactivity:</b>	
10.1.	Reactivity:	No further relevant information available.
10.2.	Chemical stability:	No decomposition if used according to specifications.
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.
10.4.	Conditions to avoid:	No further relevant information available.
10.5.	Incompatible materials:	No further relevant information available.
10.6.	Hazardous products of decomposition:	No dangerous decomposition products known.

<b>11.</b>	<b>Section 11. Toxicological information:</b>	
11.1	Information on toxicological effects:	
	Acute toxicity:	
	64742-49-0 Naphtha (petroleum), hydrotreated light	
	Oral	LD50 >5000 mg/kg (Rat)
	Dermal	LD50 >2800 mg/kg (Rabbit)
	Inhalative	LC50/4h >23 mg/l (Rat)
	1330-20-7 Xylene (mix of isomers)	
	Oral	LD50 4300 mg/kg (Rat)
	Dermal	LD50 2000 mg/kg (Rabbit)
	Irritation: on the skin:	At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.
	on the eye:	No irritating effect.
	Corrosivity:	Not corrosive.
	Sensitization:	No sensitizing effect known.
	Repeated dose toxicity:	No further relevant information available.
	Carcinogenicity:	No further relevant information available.
	Mutagenicity:	No further relevant information available.
	Toxicity for reproduction:	No further relevant information available.
	Other information:	Has a narcotizing effect.

<b>12.</b>	<b>Section 12. Ecological information:</b>	
12.1.	Toxicity:	
	Aquatic toxicity:	
	64742-49-0 Naphtha (petroleum), hydrotreated light	
	EC50/48h	3 mg/l (Daphnia magna)
	EL50 (72h)	10-30 mg/l (Pseudokirchneriella subcapitata)
	LL50 (96h)	>13.4 mg/l (Oncorhynchus mykiss (96h))
	LOEC (21 days)	0.32 mg/l (Daphnia magna)
	NOEC (21 days)	0.17 mg/l (Daphnia magna)
	NOELR (72h)	10 mg/l (Pseudokirchneriella subcapitata)
	1330-20-7 Xylene (mix of isomers)	
	EC50/48h	3.2-9.5 mg/l (Daphnia magna)
	LC50/96h	8.9-16.4 mg/l (Pimephales promelas)
12.2.	Persistence and degradability:	Easily biodegradable.
12.3.	Bioaccumulative potential:	No further relevant information available.
12.4.	Mobility in soil:	No further relevant information available.
	Additional ecological information:	
	Ecotoxic effects:	Remark: Toxic for fish.
	Additional ecological information:	
	General notes:	Water hazard class 2 (German Regulation) (Self-assessment):

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12.5.	Results of PBT and vPvB assessment:	hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms
	PBT:	Not applicable
	vPvB:	Not applicable
12.6.	Other adverse effects:	No further relevant information available.
<b>13.</b>	<b>Section 13. Disposal considerations:</b>	
13.1	Waste treatment methods:	
	Product:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Dispose in safe manner in accordance with local/national regulation.
	Uncleaned packagings:	Disposal must be made according to official regulations.
<b>14.</b>	<b>Section 14. Transport information:</b>	
14.1.	UN-Number:	
	ADR, IMDG, IATA	UN1139
14.2.	UN proper shipping name:	
	ADR	1139 COATING SOLUTION, ENVIROMENTALLY HAZARDOUS
	IMDG	COATING SOLUTION (Naphtha (petroleum), hydrotreated light), MARINE POLLUTANT
	IATA	COATING SOLUTION
14.3.	Transport hazard classes:	
	ADR	 
	Class	3 Flammable liquids
	Hazard label	3
	IMDG	 
	Class	3 Flammable liquids
	Hazard label	3
	IATA	
	Class	3 Flammable liquids
	Hazard label	3
14.4.	Packaging group:	
	ADR, IMDG, IATA	II
14.5.	Enviromental hazards:	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
	Marine pollutant:	Yes
	Special marking (ADR):	Symbol (fish and tree)
	Special precautions for user:	Warning: Flammable liquids
	Danger Code (Kemler):	33
	EMS Number:	F-E, S-E
14.7.	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable
	Transport/ Additional information:	
	ADR	
	Limited quantities (LQ)	5L
	Transport category	2

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Tunnel restriction code	D/E
UN "Model Regulation":	UN1139, COATING SOLUTION, ENVIRONMENTALLY HAZARDOUS, 3, II

**15. Section 15. Regulatory information:**

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

Used legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended  
Directive 67/548/EEC and Directive 1999/45/EC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances, as amended  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures (CLP), as amended  
Regulation (EC) No 648/2004 of the European Parliament and of the Council on detergents, as amended

National regulations: Danish MAL Code 5-3

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

**16. Section 16. Other information:**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R-phrases and H-statements:

R10 Flammable.  
R11 Highly flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
R38 Irritating to skin.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R65 Harmful: May cause lung damage if swallowed.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
H225 Highly flammable liquid and vapour.  
H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H332 Harmful if inhaled.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

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)  
RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
IMDG International Maritime Code for Dangerous Goods  
IATA International Air Transport Association  
ICAO International Civil Aviation Organization  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS European Inventory of Existing Commercial Chemical Substances  
CAS Chemical Abstracts Service (division of the American Chemical Society)  
MAL-Code Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)  
WEL Workplace exposure limits  
OEL Occupational Exposure Limit  
STEL Short-term exposure limit

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TWA Time-Weighted Average  
LC50 Lethal concentration, 50 percent  
LD50 Lethal dose, 50 percent  
EC50 Effective concentration, 50 percent  
BMGV - Biological monitoring guidance values  
DNEL Derived No-Effect Level  
PNEC Predicted No-Effect Concentration  
LOEC Lowest Observed Effect Concentration  
NOEC No Observed Effect Concentration  
PBT Persistent Bioaccumulative Toxic  
vPvB Very Persistent, Very Bioaccumulative  
VOC Volatile Organic Compounds

The product is labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

**\*Compared to the last version the data has been changed.**