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

1.1. Product identifier **: U.C. Undercoating R 34481-2**

1.2. Relevant identified uses of the substance or mixture and uses advised against: 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: info@retech.cz

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)

2. Section 2. Hazard identification:

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.

2.1. Classification of the substance or mixture:
Classification according to Regulation (EC) No 1272/2008:

Flam. Liq. 2	H225 Highly flammable liquid and vapour.
Skin Irrit. 2	H315 Causes skin irritation.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

F-Highly flammable	R11 Highly flammable
Xi-Irritant	R38 Irritating to skin.
N-Dangerous for the environment	R51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.
	R67 Vaporous may cause drowsiness and dizziness.

2.2. Label elements:
Labelling according to Regulation (EC) No 1272/2008:

GHS02 GHS07 GHS09

DANGER WARNING

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Labelling according to Directive 1999/45/EC:

F Xi N

Highly flammable Irritant Dangerous for the Environment

R 11 Highly flammable.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term effects in aquatic environment.
R 67 Vaporous may cause drowsiness and dizziness.

Special labeling of certain preparations: Not.

2.3. Other hazards:
Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
Buildup of explosive mixtures possible without sufficient ventilation.

3. Section 3. Composition/information on ingredients:

3.2. Mixtures:
Description: The active ingredient.

Dangerous components:

CAS: 64742-49-0 EINECS: 265-151-9 EC numb.: 920-750-0	Naphtha (petroleum); Hydrotreated light (contains less than 0.1% benzene) F R11; Xi R38; N51/53; Xn R65; R67 GHS02 Flam. Liq. 2, H225; GHS08 Asp. Tox. 1, H304; GHS09 Aquatic Chronic 2, H411; GHS07 Skin Irrit. 2, H315; STOT SE 3, H336	25-<50%
CAS: 1330-20-7 EINECS: 215-535-7	Xylene (mix) R10; Xn R20/21; Xi R38 GHS02 Flam. Liq. 3, H226; GHS07 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-<10%
CAS: 100-41-4 EINECS: 202-849-4	Ethylbenzene F R11; Xn R20 GHS02 Flam. Liq. 2, H225; GHS07 Acute Tox. 4, H332	1-<2.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. Section 4. First aid measures:

4.1. Description of first aid measures:
After inhalation: Supply fresh air; consult doctor in case of symptoms.
After skin contact: Instantly remove any clothing soiled by the product, immediately wash with water and soap and rinse thoroughly.
After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
After swallowing: Do not induce vomiting, rinse mouth with water and drink plenty of water. Seek for medical advice immediately. Do not give water if the person is unconscious.
Most important symptoms and effects, both acute and delayed: In case of unconsciousness place patient stable in side position for transportation.
Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5. Section 5. Fire fighting measures:

5.1. Extinguishing media:
Suitable extinguishing agents: Carbon dioxide (CO_2), fire-extinguishing powder, water haze or alcohol resistant foam.
For safety reasons unsuitable extinguishing agents: Water with full jet.

5.2. Special hazards arising from the substance or mixture:
Information not available.

5.3. Advice for firefighters: Wear protective equipment/clothing when fighting fires.
Aerosols may explode when overheated.
Cool the container with water.

6. Section 6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures:
Wear protective equipment see Section 8.2. Ensure adequate ventilation. Let evaporate. Keep unprotected person away. Keep away from ignition sources.

6.2. Environmental precautions:
Do not allow product to reach sewage system or water course.
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up:
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of 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.

7. Section 7. Handling and storage:

7.1. Information for safe handling: Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.

Information about protection against explosions and fires: Keep away from direct sun exposure and temperatures over 50°C.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2. Conditions for safe handling, including any incompatibilities:
Requirements to be met by storerooms and containers: Store in cool location.

Information about storage in one common storage facility: No further relevant information available.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

7.3. Specific end use(s): No further relevant information available.

8. Section 8. Exposure controls and personal protection:

8.1. Control parameters:
Components with limit values that require monitoring at the workplace:(GB)
100-41-4 Ethylbenzene
WEL Short-therm value: 884 mg/cm3, 200 ppm
Long- therm value: 442 mg/cm3, 100 ppm
64742-49-0 Naphtha (petroleum) – Long-term value: 315 ppm
1330-20-7 xylene (mix)
WEL Short-term value: 442 mg/m^3, 100 ppm
Long-term value: 221 mg/m^3, 50 ppm
Additional information: The lists that were valid during the compilation were as basis.
DNELs
64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	DNEL	699 mg/kg bw/day (Consumer) (Chronische Blootstelling, Systeem Effecten)
Dermal	DNEL	699 mg/kg bw/day (Consumer) (Chronische Blootstelling, Systeem Effecten)
		773 mg/kg bw/day (Worker) (Chronische Blootstelling, Systeem Effecten)

	Inhalative	DNEL	608 mg/m3 (Consumer) (Chronische Blootstelling, Systeem Effecten) 2035 mg/m3 (Worker) (Chronische Blootstelling, Systeem Effecten)

8.2. Exposure controls:

Eye protection:	Tightly safety goggles.
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.
Protection of hands:	Protective gloves. Solvent resistant gloves Selection of glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves: Nitrile rubber, NBR 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 clothing
8.3 General protective and hygienic measures:	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Do not inhale gases/fumes/aerosols.

9. Section 9. Physical and chemical properties:

9.1. Information on basic physical and chemical properties:

Appearance:	
form:	Fluid
colour:	Grey, black
Odour threshold:	Characteristic
Value pH:	Not determined
Melting point/freezing point:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	98°C
Flash point:	2°C
Evaporation rate:	Not determined
Flammability (solid,gas):	Not applicable
Ignition temperature:	200°C
Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
Upper/lower flammability or explosive limits:	
Explosion limits: lower (% Vol):	0.7
upper (% Vol):	7.0
Vapour pressure (at 20°C):	4 Bar
Vapour density (at 20 °C):	Not determined
Relative density:	1.04 g/cm3
Solubility in/miscibility with	
- water	Not miscible or difficult to mix
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Oxidative properties:	Not determined

9.2. Other information:

Organic solvents:	50.4%
Solids content:	49.6%
VOC:	524.7 g/l

10. Section 10. Stability and reactivity:

10.1.	Reactivity:	No further relevant information available.
10.2.	Chemical stability:	No further relevant information available.
10.3.	Possibility of hazardous reactions:	No dangerous reactions known.
10.4	Conditions to avoid:	There are known no conditions to avoid.
10.5.	Incompatible materials:	There are known no incompatible materials.
10.6.	Hazardous products of decomposition:	No dangerous decomposition products known.

11. Section 11. Toxicological information:

11.1 Information on toxicological effects:

Acute toxicity:

1330-20-7 xylene (mix)

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rbt)
Inhalative	LC50/4h	6350 mg/l (rat)

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>2800 mg/kg (rab)
Inhalative	LC50/4h	>23 mg/l (rat)

100-41-4 Ethylbenzene

Oral	LD50	3500 mg/kg (rat)
Dermal	LD50	17800 mg/kg (rbt)
Inhalative	LC50/4h	>2000 mg/l (rat)

Irritation: on the skin:	Irritant to skin and mucous membranes.
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:	No data.

12. Section 12. Ecological information:

Ecotoxical effects:

Acquatic 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)

EC50 (48h)	7.4 mg/l (Daphnia magna)
LC50 (96h)	3.77-13.5 mg/l (Fish)

100-41-4 Ethylbenzene

EC50 (48h)	>100 mg/l (Daphnia magna)
LC50 (96h)	>10 mg/l (Fish)

Remark: Toxic for fish

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow undiluted 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

12.2. Persistence and degradability: No further relevant information available.
12.3. Bioaccumulative potential: No further relevant information available.
12.4. Mobility in soil: No further relevant information available.
12.5. Results of PBT and vPvB assessment:
PBT: Not applicable
vPvB: Not applicable
12.6. Other adverse effects: No further relevant information available.

13. Section 13. Disposal considerations:

13.1 Waste treatment methods:

Product:	Must not be disposed of together wit household garbage. Do not allow product to reach sewage system. European waste catalogue: 20 01 27* paint, inks, adhesives and resins containing dangerous substances
Uncleaned packagings:	Disposal must be made according to official regulations.

14. Section 14. Transport information:

14.1. Land transport:

ADR/RID-GGVS/E class:	3(F1) - Flammable liquids.
Danger code (Kemler):	33
Number/Letter:	II
Number UN:	1139
Hazard label:	3
Special marking:	Symbol (fish and tree)
Description of goods:	1139 COATING SOLUTION ENVIRONMENTALLY HAZARDOUS
Limited quantities (LQ)	5L
Transport category	2
Tunnel restriction code	D/E

14.2. Maritime transport:

IMDG-class:	3
Number UN:	1139
Packaging group:	II
Label:	3
EMS-group:	F-E,S-E
Marine pollutant:	YES Symbol (fish and tree)
Proper shipping name:	COATING SOLUTION (Naphtha (petroleum), hydrotreated light)

14.3. Air transport:

ICAO / IATA -class:	3
UN/ID number:	1139
Label:	3
Packaging group:	II
Proper shipping name:	COATING SOLUTION

UN "Model Regulation": UN1139, COATING SOLUTION, ENVIRONMENTALLY HAZARDOUS, 3, II
Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
Special precautions for users - Warning: Flammable liquids.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

15. Section 15. Regulatory information:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:
Labelling according to law line:
The product has been labeled in accordance with EC Directives / relevant national laws.
Danger of determining components and mark to labelling:
64742-49-0 Naphtha (petroleum), hydrotreated light

Labelling hazardousness:

F- Highly flammable Xi- Irritant N- Dangerous for to environmental

Numbers and word reading associated hazard R-sentences :
R 11 Highly flammable.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 67 Vapours may cause drowsiness and dizziness.

Numbers and word reading associated security S-sentences:
S 2 Keep out of the reach children.
S 9 Keep container in a well-ventilated place.
S 16 Keep away from sources of ignition – No smoking.
S 23 Do not breathe fumes/vapours
S 24/25 Avoid contact with skin and eyes.
S 46 If swallowed, seek medical advice immediately and show this container or label.
S 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
S 51 Use only in well-ventilated areas.
S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets.

On the packaging there is not included info in accordance with European Regulation No 1999/45/EC (chapter 2.5.).

Density: 1.04 g/cm3
Solids content: 49.0%
VOC: 2004/42/IIB(e)(840) – 524 g/l

Used legislation:
European Regulation (EC) No 1907/2006 – REACH.
Commission Regulation (EU) No 453/2010.
European Regulation No 67/548EEC and 1999/45/EC.
Commission Regulation (EC) No 1272/2006 – CLP.
Commission Regulation (EC) No 790/2009.
Regulation (EC) No 648/2004 (detergents).

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.

Relative R+H phrases:
R 10 Flammable.
R 11 Highly flammable.
R 20 Harmful by inhalation
R 20/21 Harmful by inhalation and in contact with skin.
R 38 Irritating to skin.
R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 65 Harmful: May cause lung damage if swallowed.
R 67 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.
H317 May cause an allergic skin reaction.
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
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
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
WEL- Workplace exposure limits
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent

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