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# Safety Data Sheet

acc. to OSHA HCS Reviewed on 11/11/2021

Printing date 11/11/2021

## **1** Identification

- · Product identifier
- Trade name: ResinWerks Chemical Resistant Urethane Topcoat Part A
- · Article number: 200-0000-A
- · Details of the supplier of the safety data sheet
- *Manufacturer/Supplier:* Resinwerks 7270 Gilpin Way Suite 100 Denver, CO 80229 USA
- · Information department: Product safety department
- Emergency telephone number: During normal opening times: +1 (720) 484-5160

## 2 Hazard(s) identification

· Classification of the substance or mixture

GHS08 Health hazard

Muta. 1BH340 May cause genetic defects.Carc. 1BH350 May cause cancer.

# GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label elements

- · GHS label elements
- *The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms*



· Signal word Danger

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## Trade name: ResinWerks Chemical Resistant Urethane Topcoat Part A

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Hazard-determining components of labeling:
(R)-p-mentha-1,8-diene
Stoddard solvent
Hazard statements
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
Precautionary statements
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
If on skin: Wash with plenty of water.
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see on this label).
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
Classification system:
NFPA ratings (scale 0 - 4)
Health = 1
Fire = 1
1  0  Reactivity = 0
HMIS-ratings (scale 0 - 4)
HEALTH 1 Health = 1
FIRE 1 Fire = 1
REACTIVITY O Reactivity = 0
Other hazards
Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.
Composition/information on ingredients
Chamical observatorization: Mixtures

· Chemical characterization: Mixtures

• **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
123-86-4	n-butyl acetate	>10-≤25%
616-38-6	dimethyl carbonate	>10-≤25%
5989-27-5	(R)-p-mentha-1,8-diene	>2.5-≤10%
628-63-7	pentyl acetate	≤2.5%
60-00-4	edetic acid	≤2.5%
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8052-41-3 Stoddard solvent

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## 4 First-aid measures

- · Description of first aid measures
- After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

## 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

• *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

- 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.
- · Protective Action Criteria for Chemicals

· PAC-1:		
123-86-4	n-butyl acetate	5 ppm
616-38-6	dimethyl carbonate	11 ppm
5989-27-5	(R)-p-mentha-1,8-diene	15 ppm
628-63-7	pentyl acetate	100 ppm
60-00-4	edetic acid	4.1 mg/m <sup>3</sup>
8052-41-3	Stoddard solvent	300 mg/m³
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108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
111-76-2	2-butoxyethanol	60 ppm
· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
616-38-6	dimethyl carbonate	120 ppm
5989-27-5	(R)-p-mentha-1,8-diene	67 ppm
628-63-7	pentyl acetate	670 ppm
60-00-4	edetic acid	45 mg/m³
8052-41-3	Stoddard solvent	1,800 mg/m³
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
111-76-2	2-butoxyethanol	120 ppm
· PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
616-38-6	dimethyl carbonate	700 ppm
5989-27-5	(R)-p-mentha-1,8-diene	170 ppm
628-63-7	pentyl acetate	4000* ppm
60-00-4	edetic acid	200 mg/m³
8052-41-3	Stoddard solvent	29500** mg/m³
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
111-76-2	2-butoxyethanol	700 ppm

## 7 Handling and storage

· Handling:

- Precautions 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 at the second se
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

#### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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123-8	36-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 712 mg/m³, 150 ppm Long-term value: 238 mg/m³, 50 ppm
628-0	63-7 pentyl acetate
PEL	Long-term value: 525 mg/m³, 100 ppm
REL	Long-term value: 525 mg/m³, 100 ppm
TLV	Short-term value: 532 mg/m³, 100 ppm Long-term value: 266 mg/m³, 50 ppm
8052	-41-3 Stoddard solvent
PEL	Long-term value: 2900 mg/m³, 500 ppm
REL	Long-term value: 350 mg/m³ Ceiling limit value: 1800* mg/m³ *15-min
TLV	Long-term value: 525 mg/m³, 100 ppm
Addi	tional information: The lists that were valid during the creation were used as basis.
Pers Gene Keep Imme Wash Store Brea In ca expo	sure controls onal protective equipment: eral protective and hygienic measures: away from foodstuffs, beverages and feed. ediately remove all soiled and contaminated clothing. In hands before breaks and at the end of work. protective clothing separately. thing equipment: se of brief exposure or low pollution use respiratory filter device. In case of intensive or longe sure use respiratory protective device that is independent of circulating air. ection of hands:
	Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### 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.

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Tightly sealed goggles

# 9 Physical and chemical properties

General Information	
Appearance: Form:	Liquid
Color:	Clear
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	150 °C (302 °F)
Flash point:	> 60 °C (>140 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	370 °C (698 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	1.2 Vol %
Upper:	7.5 Vol %
Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)
Density at 20 °C (68 °F):	1.07 g/cm³ (8.92915 lbs/gal)
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	Missible
Water:	Miscible
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	18.5 %
VOC content:	18.48 % 197.8 g/l / 1.65 lb/gal
Solids content:	58.7 %

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· Other infomation:

No further relevant information available.

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information	11	Toxicol	ogical	informa	tion
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- Information on toxicological effects
- Acute toxicity:
- · LD/LC50 values that are relevant for classification:
- 5989-27-5 (R)-p-mentha-1,8-diene

Oral LD50 4,400 mg/kg (rat)

- Primary irritant effect:
- on the skin: No irritant effect.
- · on the eye: No irritating effect.
- Sensitization: Sensitization possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

- Irritant
- Carcinogenic.

The product can cause inheritable damage.

· Carcinogenic categories

· IARC (Inte	· IARC (International Agency for Research on Cancer)	
5989-27-5	(R)-p-mentha-1,8-diene	3
111-76-2	2-butoxyethanol	3
NTP (National Toxicology Program)		
None of the ingredients is listed.		
· OSHA-Ca	· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.		

# **12** Ecological information

· Toxicity

- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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## Trade name: ResinWerks Chemical Resistant Urethane Topcoat Part A

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- Ecotoxical effects:
- Remark: Toxic for fish
- · Additional ecological information:
- General notes:
- Water hazard class 3 (Self-assessment): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground. Also poisonous for fish and plankton in water bodies.
- Toxic for aquatic organisms
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **гы**: Not applicable. • **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

## **13 Disposal considerations**

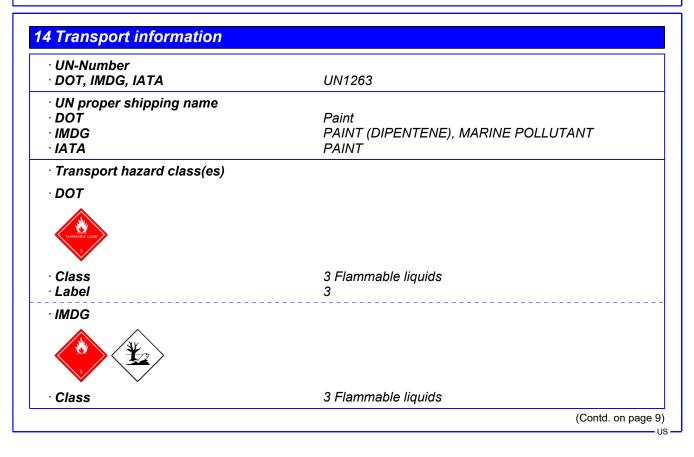
· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.



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## Trade name: ResinWerks Chemical Resistant Urethane Topcoat Part A

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Label	3
ΙΑΤΑ	
Class	3 Flammable liquids
Label	3
Packing group	<i>III</i>
DOT, IMDG, IATA	
Environmental hazards:	Product contains environmentally hazardous
Marine pollutant:	substances: (R)-p-mentha-1,8-diene Symbol (fish and tree)
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	30
EMS Number:	F-E, <u>S-E</u>
Stowage Category	A
Transport in bulk according to Annex	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 60 L
	On cargo aircraft only: 220 L
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum pat quantity par inpar pagkaging: 20 ml
	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara
- Section 355 (extremely hazardous substances):

   None of the ingredients is listed.

   Section 313 (Specific toxic chemical listings):

   111-76-2
   2-butoxyethanol

   TSCA (Toxic Substances Control Act):

   123-86-4
   n-butyl acetate

   616-38-6
   dimethyl carbonate

   5989-27-5
   (R)-p-mentha-1,8-diene

   628-63-7
   pentyl acetate

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	(Contd. of page 9)		
60-00-4	edetic acid		
104810-47-1	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]-ω-[3-[3-(2H- benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropoxy]-		
8052-41-3	Stoddard solvent		
104810-48-2	poly(oxy-1,2-ethanediyl), α-[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4- hydroxyphenyl]-1-oxopropyl]-ω-hydroxy-		
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidylsebacate		
624-41-9	2-methylbutyl acetat		
108-65-6	2-methoxy-1-methylethyl acetate		
111-76-2	2-butoxyethanol		
· Proposition	65		
· Chemicals k	nown to cause cancer:		
None of the ir	ngredients is listed.		
· Chemicals k	nown to cause reproductive toxicity for females:		
None of the ir	ngredients is listed.		
· Chemicals k	· Chemicals known to cause reproductive toxicity for males:		
None of the ir	None of the ingredients is listed.		
· Chemicals known to cause developmental toxicity:			
None of the in	None of the ingredients is listed.		
· Carcinogeni	· Carcinogenic categories		
· EPA (Environmental Protection Agency)			

111-76-2 2-butoxyethanol

· TLV (Threshold Limit Value established by ACGIH)

111-76-2 2-butoxyethanol

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

Hazard-determining components of labeling: (R)-p-mentha-1,8-diene Stoddard solvent
Hazard statements May cause an allergic skin reaction. May cause genetic defects. May cause cancer.
Precautionary statements If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

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Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. If on skin: Wash with plenty of water. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### • National regulations:

#### · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Environment protection department.
- · Contact: Ryan Fretz
- · Date of preparation / last revision 11/11/2021 / -

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity - Category 1B Carc. 1B: Carcinogenicity - Category 1B