

Printing date 05/23/2018

Reviewed on 02/25/2016

1 Identification

- **Product identifier**

- **Trade name:** UR3560 Red Part B Polyol

- **Article number:** 1025486

- **Application of the substance / the mixture** Polyurethane resin

- **Details of the supplier of the safety data sheet** SikaAxson US - EHS Department

- **Manufacturer/Supplier:**

Company Name: Axson Technologies US, Inc.-SikaAxson

Headquarters:

31200 Stephenson Hwy
 Madison Heights, MI 48071
 USA

Manufacturing Site:

1611 Hults Drive
 Eaton Rapids, MI 48827
 USA
 ehs-us@axson.com

- **Information department:** Product safety department

- **Emergency telephone number:**

During normal opening times: +1 (248) 588-2270

CHEMTREC 24-hour Emergency: +1 (800) 424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 1A H360 May damage fertility or the unborn child.



GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

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- **Label elements**

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

- **Hazard pictograms**



GHS07 GHS08 GHS09

- **Signal word** *Danger*

- **Hazard-determining components of labeling:**

4,4'-methylenebis(2-ethylaniline)

dibutyl phthalate

Polypropylene glycol

- **Hazard statements**

Harmful if swallowed or in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Avoid breathing dust/fume/gas/mist/vapors/spray

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 1

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *2

Fire = 1

Reactivity = 0

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- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 19900-65-3 EINECS: 243-420-1	4,4'-methylenebis(2-ethylaniline)	50-100%
CAS: 84-74-2 EINECS: 201-557-4	dibutyl phthalate	20-50%
CAS: 25322-69-4	Polypropylene glycol	1-5%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** 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. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a 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:** Wear self-contained respiratory protective device.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

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· **Environmental precautions:**

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.

· **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:**

84-74-2	dibutyl phthalate	15 mg/m ³
25322-69-4	Polypropylene glycol	30 mg/m ³
13463-67-7	titanium dioxide	30 mg/m ³
111-46-6	2,2'-oxybisethanol	6.9 ppm
78-83-1	butanol	150 ppm
21645-51-2	aluminium hydroxide	8.7 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
98-82-8	cumene	50 ppm
1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
64-17-5	ethanol	1,800 ppm

· **PAC-2:**

84-74-2	dibutyl phthalate	1,600 mg/m ³
25322-69-4	Polypropylene glycol	330 mg/m ³
13463-67-7	titanium dioxide	330 mg/m ³
111-46-6	2,2'-oxybisethanol	140 ppm
78-83-1	butanol	1,300 ppm
21645-51-2	aluminium hydroxide	73 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
98-82-8	cumene	300 ppm
1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppm
64-17-5	ethanol	3300* ppm

· **PAC-3:**

84-74-2	dibutyl phthalate	9300* mg/m ³
25322-69-4	Polypropylene glycol	2,000 mg/m ³
13463-67-7	titanium dioxide	2,000 mg/m ³
111-46-6	2,2'-oxybisethanol	860 ppm
78-83-1	butanol	8000* ppm
21645-51-2	aluminium hydroxide	440 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³

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98-82-8	cumene	730 ppm
1330-20-7	xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm
64-17-5	ethanol	15000* ppm

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

84-74-2 dibutyl phthalate

PEL	Long-term value: 5 mg/m ³
REL	Long-term value: 5 mg/m ³
TLV	Long-term value: 5 mg/m ³

- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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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.

- **Eye protection:**



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

· Form:	Liquid
· Color:	Red
· Odor:	uncharacteristic
· Odor threshold:	Not determined.

- **pH-value:** Not determined.

- **Change in condition**

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	340 °C (644 °F)

- **Flash point:** 188 °C (370.4 °F)

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 390 °C (734 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

· Lower:	0.1 Vol %
· Upper:	2 Vol %

- **Vapor pressure:** Not determined.

- **Density at 20 °C (68 °F):** 1.08 g/cm³ (9.01 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

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- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.4 %
 - VOC content:** 0.37 %
 - 3.9 g/l / 0.03 lb/gl
- **Solids content:** 0.7 %
- **Other information** 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:**
 - ?
 - Carbon monoxide and carbon dioxide

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

84-74-2 dibutyl phthalate

Oral	LD50	8,000 mg/kg (rat)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rabbit)

- **Primary irritant effect:**
 - on the skin:** Irritant to skin and mucous membranes.
 - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
 - The product shows the following dangers according to internally approved calculation methods for preparations:
 - Harmful
 - Irritant

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- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7	titanium dioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3
98-82-8	cumene	2B
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
64-17-5	ethanol	1

- **NTP (National Toxicology Program)**

98-82-8	cumene	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

84-74-2 dibutyl phthalate	
48 hr EC50	100 mg/l (daphnia)
96 hr LC50	21 mg/l (Fathead minnow)
NOEC	0.33 mg/l (daphnia)

- **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.

- **Ecotoxicological effects:**

- **Remark:** Very toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (Self-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.

Very toxic for aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** 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.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

· UN-Number	
· DOT	NA3082
· IMDG, IATA	UN3082
· UN proper shipping name	As stated below:
· DOT	Environmentally hazardous substances, liquid, n.o.s. (2-Ethylaniline, dibutyl phthalate)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLANILINE, dibutyl phthalate), MARINE POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLANILINE, dibutyl phthalate)
· Transport hazard class(es)	
· DOT, IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles
· Label	9
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Yes
	Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
· Special precautions for user	Warning: Miscellaneous dangerous substances and articles
· EMS Number:	F-A,S-F
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Remarks:	Special marking with the symbol (fish and tree).
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (2-ETHYLANILINE, DIBUTYL PHTHALATE), 9, III

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

84-74-2 dibutyl phthalate

- **TSCA (Toxic Substances Control Act) (Substances not listed):**

All ingredients are listed.

- **Chemicals regulated by TSCA Section 12(b)**

None of the ingredients is listed.

- **Chemical regulated by TSCA 5(a)(2) rule:**

None of the ingredients is listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

98-82-8 cumene

100-41-4 ethylbenzene

- **Chemicals known to cause reproductive toxicity for females:**

84-74-2 dibutyl phthalate

- **Chemicals known to cause reproductive toxicity for males:**

84-74-2 dibutyl phthalate

- **Chemicals known to cause developmental toxicity:**

84-74-2 dibutyl phthalate

64-17-5 ethanol

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

84-74-2 dibutyl phthalate

D

98-82-8 cumene

D, CBD

1330-20-7 xylene

I

100-41-4 ethylbenzene

D

- **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7 titanium dioxide

A4

1330-20-7 xylene

A4

100-41-4 ethylbenzene

A3

64-17-5 ethanol

A3

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

13463-67-7 titanium dioxide

- **Listed in CWC Regulations**

None of the ingredients is listed.

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

· **Hazard pictograms**



GHS07 GHS08 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

4,4'-methylenebis(2-ethylaniline)

dibutyl phthalate

Polypropylene glycol

· **Hazard statements**

Harmful if swallowed or in contact with skin.

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May damage fertility or the unborn child.

May cause respiratory irritation. May cause drowsiness or dizziness.

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **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.

· **Date of preparation / last revision** 05/23/2018 / 7

· **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)

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)

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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

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Carc. 2: Carcinogenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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