



## Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

### 1 Identification

- **Product identifier**
- **Trade name:** URI087
- **Article number:** 14126SB
- **Relevant identified uses of the substance or mixture.**  
Industrial Use Only.  
Adhesive
- **Application of the substance / the mixture** Adhesives
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Royal Adhesives And Sealants, LLC  
2001 W. Washington Street  
South Bend IN 46628-2023  
Information Phone Number: 574-246-5000
- **Information department:** Global Regulatory Department.
- **Emergency telephone number:**  
ChemTrec: Day or Night within USA and Canada: 1-800-424-9300.  
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

### 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **Label elements**

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

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 1)

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard statements**

Highly flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

IF exposed or concerned: Get medical advice/attention.

Call a poison center/doctor if you feel unwell.

Get medical advice/attention if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

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

Store in a well-ventilated place. Keep cool.

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 = 3

Reactivity = 0

(Contd. on page 3)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 2)

## · HMIS-ratings (scale 0 - 4)

HEALTH	1	Health = 1
FIRE	3	Fire = 3
PHYSICAL HAZARD	0	Physical Hazard = 0

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

## \* 3 Composition/information on ingredients

- Chemical characterization: Mixtures
- Description: Mixture

### · Hazardous components:

108-88-3	toluene	25-50%
67-64-1	acetone	25-50%
78-93-3	methyl ethyl ketone	25-50%

## \* 4 First-aid measures

- Description of first aid measures
- After inhalation:  
Supply fresh air or oxygen; call for 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. If symptoms persist, consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- 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:  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters  
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  
Use water spray to cool fire exposed containers.
- Protective equipment: Protective clothing and respiratory protective device.

USA

(Contd. on page 4)



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 3)

## 6 Accidental release measures

### · Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

### · Environmental precautions: 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 of contaminated material as waste in accordance with federal state and local regulations.

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:

108-88-3	toluene	67 ppm
67-64-1	acetone	200 ppm
78-93-3	methyl ethyl ketone	200 ppm
112945-52-5	Amorphous Silica	18 mg/m <sup>3</sup>

#### · PAC-2:

108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppm
78-93-3	methyl ethyl ketone	2700* ppm
112945-52-5	Amorphous Silica	100 mg/m <sup>3</sup>

#### · PAC-3:

108-88-3	toluene	3700* ppm
67-64-1	acetone	5700* ppm
78-93-3	methyl ethyl ketone	4000* ppm
112945-52-5	Amorphous Silica	630 mg/m <sup>3</sup>

## 7 Handling and storage

### · Handling:

#### · Precautions for safe handling

Open and handle receptacle with care.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

#### · Information about protection against explosions and fires:

Keep container closed when not in use.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### · Conditions for safe storage, including any incompatibilities

#### · Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location away from direct heat.

· Information about storage in one common storage facility: Store away from oxidizing agents.

· Further information about storage conditions: Keep receptacle tightly sealed.

(Contd. on page 5)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 4)

· *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:*

### 108-88-3 toluene

PEL Long-term value: 200 ppm  
 Ceiling limit value: 300; 500\* ppm  
 \*10-min peak per 8-hr shift

REL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 375 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 75 mg/m<sup>3</sup>, 20 ppm  
 BEI

### 67-64-1 acetone

PEL Long-term value: 2400 mg/m<sup>3</sup>, 1000 ppm

REL Long-term value: 590 mg/m<sup>3</sup>, 250 ppm

TLV Short-term value: 1187 mg/m<sup>3</sup>, 500 ppm  
 Long-term value: 594 mg/m<sup>3</sup>, 250 ppm  
 BEI

### 78-93-3 methyl ethyl ketone

PEL Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 885 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 590 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 885 mg/m<sup>3</sup>, 300 ppm  
 Long-term value: 590 mg/m<sup>3</sup>, 200 ppm  
 BEI

· *Ingredients with biological limit values:*

### 108-88-3 toluene

BEI 0.02 mg/L  
 Medium: blood  
 Time: prior to last shift of workweek  
 Parameter: Toluene

0.03 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Toluene

0.3 mg/g creatinine  
 Medium: urine  
 Time: end of shift  
 Parameter: o-Cresol with hydrolysis (background)

### 67-64-1 acetone

BEI 50 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: Acetone (nonspecific)

(Contd. on page 6)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: URI087

(Contd. of page 5)

**78-93-3 methyl ethyl ketone**

BEI 2 mg/L  
 Medium: urine  
 Time: end of shift  
 Parameter: MEK

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment (see listings below)**

· **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:**

Use approved respiratory protection equipment when airborne exposure is excessive. Consult the respirator manufacturer to determine the appropriate type of equipment for a given application. Observe respirator use limitations specified by the manufacturer.

· **Protection of hands:**



Protective gloves

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

· **Material of gloves**

Nitrile rubber, NBR

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.

· **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:**

Safety glasses with side shields.



Tightly sealed goggles

· **Body protection:** Protective work clothing

## 9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Liquid

Color: Not determined.

· **Odor:** Characteristic

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

(Contd. on page 7)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 6)

· <b>Change in condition</b>	
<b>Melting point:</b>	Undetermined.
<b>Boiling point:</b>	55 °C (131 °F)
· <b>Flash point:</b>	-20 °C (-4 °F)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	465 °C (869 °F)
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Flammable limits:</b>	
<b>Lower:</b>	1.2 Vol %
<b>Upper:</b>	13.0 Vol %
· <b>Vapor pressure at 20 °C (68 °F):</b>	233 hPa (174.8 mm Hg)
· <b>Specific gravity at 20 °C (68 °F):</b>	0.858
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	Not determined
<b>Solids content:</b>	Not available.
· <b>Other information</b>	Pounds / Gallon 7.16 Grams VOC/Liter (less water, less exempts) 728.05 Pounds VOC/Liter (less water, less exempts) 6.07

## 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** Heat, flames, sparks.
- **Incompatible materials:**
  - Reacts with reducing agents.
  - Reacts with acids.
  - Reacts with strong oxidizing agents.
  - Reacts with alkali (lyes).
  - Copper and copper alloys.

(Contd. on page 8)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 7)

- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides

## \* 11 Toxicological information

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

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

### 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:**  
Causes serious eye irritation.  
Vapors may be irritating to the eyes.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

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

108-88-3	toluene	3
----------	---------	---

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **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.
- **Additional ecological information:**
- **General notes:** At present there are no ecotoxicological assessments.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

USA

(Contd. on page 9)



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com



# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 8)

## 13 Disposal considerations

- Waste treatment methods
- **Recommendation:** Must be specially treated adhering to official regulations.
- Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· UN-Number  
 · DOT, IMDG, IATA UN1133

· UN proper shipping name  
 · DOT, IMDG, IATA ADHESIVES

· Transport hazard class(es)

· DOT



· Class 3 Flammable liquids  
 · Label 3

· IMDG, IATA



· Class 3 Flammable liquids  
 · Label 3

· Packing group

· DOT, IMDG, IATA II

· Environmental hazards: Not applicable.

· Special precautions for user Warning: Flammable liquids

· Danger code (Kemler): 33

· EMS Number: F-E,S-D

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": UN1133, ADHESIVES, 3, II

## 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.

(Contd. on page 10)

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: URI087

(Contd. of page 9)

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

108-88-3	toluene
----------	---------

· **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

· **Proposition 65**

Please contact H.B. Fuller for more information regarding Proposition 65 on this product:  
reg.request@hbfuller.com .

· **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL(Canada Domestic Substance list) or are exempt from DSL requirements.

· **New Jersey Right-to-Know List:**

108-88-3	toluene
----------	---------

67-64-1	acetone
---------	---------

78-93-3	methyl ethyl ketone
---------	---------------------

· **New Jersey Special Hazardous Substance List:**

108-88-3	toluene	TE, F3
----------	---------	--------

67-64-1	acetone	F3
---------	---------	----

78-93-3	methyl ethyl ketone	F3
---------	---------------------	----

· **Pennsylvania Right-to-Know List:**

108-88-3	toluene
----------	---------

67-64-1	acetone
---------	---------

78-93-3	methyl ethyl ketone
---------	---------------------

· **Pennsylvania Special Hazardous Substance List:**

108-88-3	toluene	E
----------	---------	---

67-64-1	acetone	E
---------	---------	---

78-93-3	methyl ethyl ketone	E
---------	---------------------	---

· **Carcinogenicity categories**

· **EPA (Environmental Protection Agency)**

108-88-3	toluene	II
----------	---------	----

67-64-1	acetone	I
---------	---------	---

78-93-3	methyl ethyl ketone	I
---------	---------------------	---

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

108-88-3	toluene	A4
----------	---------	----

67-64-1	acetone	A4
---------	---------	----

· **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

· **National regulations:**

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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

USA

(Contd. on page 11)



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rudbro.com

# Safety Data Sheet

## acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

Revision Date 12/12/2018

Trade name: UR1087

(Contd. of page 10)

### 16 Other information

Although the information and recommendations set forth in this SDS are presented in good faith and are believed to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will Royal Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

· **Department issuing SDS:** Global Regulatory Department.

· **Creation Date:** 12/12/2018

· **Contact:**

Please contact H.B. Fuller for more information regarding Proposition 65 on this product:  
reg.request@hbfuller.com .

· **Date of preparation / last revision** 12/12/2018 / -

· **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)

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

BEI: Biological Exposure Limit

Flam. Liq. 2: Flammable liquids – Category 2

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

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

Repr. 2: Reproductive toxicity – Category 2

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

USA



**RUDOLPH  
BROS. & CO**



1-800-375-0605  
Option 8 for 24/7 Service



www.rudolphbros.com  
rbcsupport@rubro.com