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Safety Data Sheet acc. to OSHA HCS

Printing Date 12/12/2018

Revision Number 1

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1 Identification

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- · Product identifier
- · Trade name: UR1087
- · 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).

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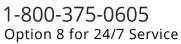
Trade name: UR1087

(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: CO2, 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 = 1Fire = 3Reactivity = 0(Contd. on page 3)











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25-50%

25-50%

25-50%

· HMIS-ratings (scale 0 - 4)



· Other hazards

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· 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

67-64-1 acetone

78-93-3 methyl ethyl ketone

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:

CO2, 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.

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6 Accidental release measures

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Wear protect	ve equipment. Keep unprotected persons away.	
	nate ventilation	
	al precautions: Do not allow to enter sewers/ surface or ground water.	
	material for containment and cleaning up:	
	iquid-binding material (sand, diatomite, acid binders, universal binders, s	
	ntaminated material as waste in accordance with federal state and local re	egulations.
	ate ventilation.	
	other sections for information on safe handling.	
	for information on personal protection equipment.	
	<i>3 for disposal information</i> .	
	tion 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
PAC-2:		
108-88-3	toluene	560 ppm
67-64-1	acetone	3200* ppn
78-93-3	methyl ethyl ketone	2700* ppn
112945-52-5	Amorphous Silica	100 mg/m ³
PAC-3:		
108-88-3	toluene	3700* ppn
67-64-1	acetone	5700* ppn
78-93-3	methyl ethyl ketone	4000* ppn
	Amorphous Silica	630 mg/m ³

7 Handling and storage

· Handling:

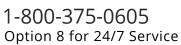
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- · Precautions for safe handling Open and handle receptacle with care. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about protection against explosions and fires: Keep container closed when not 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.

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• 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

	Common parameters		
	ponents with limit values that require monitoring at the workplace:		
	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/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm		
TLV	Long-term value: 75 mg/m ³ , 20 ppm BEI		
67-6	4-1 acetone		
PEL	Long-term value: 2400 mg/m ³ , 1000 ppm		
REL	Long-term value: 590 mg/m ³ , 250 ppm		
TLV	Short-term value: 1187 mg/m³, 500 ppm Long-term value: 594 mg/m³, 250 ppm BEI		
78-9	3-3 methyl ethyl ketone		
	Long-term value: 590 mg/m ³ , 200 ppm		
	Short-term value: 885 mg/m ³ , 300 ppm		
	Long-term value: 590 mg/m ³ , 200 ppm		
TLV	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm		
	BEI		
	edients with biological limit values:		
	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)		
	4-1 acetone		
BEI	50 mg/L		
	Medium: urine		
	Time: end of shift Parameter: Acatone (nonspecific)		
	Parameter: Acetone (nonspecific) (Contd. on page 6)		
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Section RUDOLPH BROS. ξ CO



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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)
- \cdot 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:LiquidColor:Not determined.
- Odor: Characteristic
- Odor threshold:
- Not determined.
- *pH-value:* Not determined.

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Change in condition	
Melting point:	Undetermined.
Boiling point:	55 °C (131 °F)
Flash point:	-20 °C (-4 °F)
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	465 °C (869 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Flammable limits:	1
Lower:	1.2 Vol %
Upper:	13.0 Vol %
Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)
Specific gravity at 20 °C (68 °F):	0.858
Relative density	Not determined.
Vapor density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wate	r): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	Not determined
Solids content:	Not available.
Other information	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.

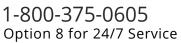
- Reacts with strong oxidizing agents.
- Reacts with alkali (lyes).
- Copper and copper alloys.

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• *Hazardous decomposition products: Carbon monoxide and carbon dioxide*

Nitrogen oxides

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

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\cdot LD/LC50 values that are rel	evant for classification:
108-88-3 toluene	

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

· Primary irritant effect:

 \cdot on the skin: Irritant to skin and mucous membranes.

 \cdot 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

·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.

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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) $\cdot DOT$ 3 Flammable liquids · Class · Label 3 · IMDG, IATA 3 Flammable liquids · Class · Label 3 · Packing group · DOT, IMDG, IATA Π · 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. UN1133, ADHESIVES, 3, II · UN "Model Regulation":

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.

RRR



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



www.rudolphbros.com rbcsupport@rudbro.com

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· 15CA (10	oxic Substances Control Act):	
-	nents of this product are on the TSCA Inventory or are exempt from TSCA In	nventory requirements.
reg.reque · (DSL) Ca	ntact H.B. Fuller for more information regarding Proposition 65 on this pro st@hbfuller.com . nada Dosmestic Substance List nents of this product are on the DSL(Canada Domestic Substance list) or ar	
1	ey Right-to-Know List:	
108-88-3	• •	
67-64-1		
	methyl ethyl ketone	
	ey Special Hazardous Substance List:	
108-88-3	• •	TE, I
67-64-1		F3
	methyl ethyl ketone	F3
	unia Right-to-Know List:	
108-88-3	-	
67-64-1		
78-93-3	methyl ethyl ketone	
	unia Special Hazardous Substance List:	
108-88-3		
67-64-1		
78-93-3	methyl ethyl ketone	
Canceroo	enity categories	
-	vironmental Protection Agency)	
108-88-3		
67-64-1		
	methyl ethyl ketone	
	eshold Limit Value established by ACGIH)	
108-88-3		
67-64-1		
· MAK (Ge	rman Maximum Workplace Concentration)	
	the ingredients is listed.	
•	a (National Institute for Occupational Safety and Health)	
	ne ingredients is listed.	
	U	

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Other information	acad faith and and h-li
Although the information and recommendations set forth in this SDS are presented in a	
to be correct as of the date of this SDS, Royal Adhesives & Sealants makes no represen	
completeness or accuracy thereof. Information is supplied on the condition that the pe	
will make their own determination as to the suitability for their purpose prior to use. In	n no event will Royal
Adhesives & Sealants or any affiliate thereof be responsible for damages of any nature	
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 prod	duct:
	<i>uucı</i> .
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	
ELINECS. 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 Juni: 2: Skin company limitation – 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 SE 3: Specific larger organ toxicity (single exposure) – Category 5 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	









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