

Page 1/10

Safety Data Sheet acc. to OSHA HCS

Printing Date 06/23/2015

*

*

Revision Number 1

Revision Date 06/23/2015

1 Identification
· Product identifier
• Trade name: <u>BD Loop Goop</u> • Relevant identified uses of the substance or mixture. Sealant
 Details of the supplier of the safety data sheet Manufacturer/Supplier: Royal Adhesives & Sealants Canada Ltd 266 Humberline Drive - Toronto, Ontario, Canada M9W 5X1 Tel. +1 416-679-5676 Fax: +1 416-679-0511
 Information department: Environment protection 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. 3 H226 Flammable liquid and vapour.
GHS08 Health hazard
Resp. Sens. 1H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.Repr. 1BH360 May damage fertility or the unborn child.
GHS07
Eye Irrit. 2A H319 Causes serious eye irritation.
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
GHS02 GHS08
 Signal word Danger Hazard statements Flammable liquid and vapour. Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled. (Contd. on page 2)
USA

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

	(Contd. of page 1)
May cause an allergic skin reaction.	
May damage fertility or the unborn child.	
Precautionary statements	
If medical advice is needed, have product container or label at hand.	
Keep out of reach of children.	
Read label before use.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Wear respiratory protection.	
Avoid breathing dust/fume/gas/mist/vapors/spray	
Wear protective gloves / eye protection / face protection.	
Wear protective gloves.	
Wear eye protection / face protection.	
Ground/bond container and receiving equipment.	
Keep container tightly closed.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Wash thoroughly after handling.	
Contaminated work clothing must not be allowed out of the workplace.	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with	
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and	d easy to do.
Continue rinsing.	
Specific treatment (see on this label).	
If experiencing respiratory symptoms: Call a poison center/doctor.	
Wash contaminated clothing before reuse.	
If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathin	ıg.
IF exposed or concerned: Get medical advice/attention.	
If skin irritation or rash 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 locked up.	
Store in a well-ventilated place. Keep cool.	
Dispose of contents/container in accordance with local/regional/national/international regulati	ons.
Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = 2	
$\mathbf{Z} = \mathbf{I}$ <i>Reactivity</i> = 1	
HMIS-ratings (scale 0 - 4)	
HEALTH 2 $Health = 2$	
FIRE 2 $Fire = 2$	
$\begin{array}{c} PHYSICAL HAZARD \\ \hline 1 \end{array} Physical Hazard = 1 \end{array}$	
Other hazards	
Results of PBT and vPvB assessment	
DDT. Not amplicable	

Results of PBT and vl PBT: Not applicable. *vPvB:* Not applicable.

(Contd. on page 3)

USA

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

(Contd. of page 2)

3 Composition/information on ingredients		
• Chemical characterization: Mixtures • Description: Pre-Polymer		
· Hazardous	components:	
108-65-6	2-methoxy-1-methylethyl acetate	5-20%
117-81-7	bis(2-ethylhexyl) phthalate	2.5-10%
101-68-8	4,4'-methylenediphenyl diisocyanate	≤2.5%
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	<i>≤</i> 2.5%
4083-64-1	4-isocyanatosulphonyltoluene	<i>≤</i> 1.0%
100-42-5	styrene	≤1.0%

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.

Call a doctor immediately.

Overexposure, remove to fresh air and seek medical attention.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for 20 minutes under running water. Call a Doctor immediately.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Seek medical treatment.

• 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, dry chemical, foam
- · For safety reasons unsuitable extinguishing agents: Water
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Protective clothing and respiratory protective device.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- $\cdot \textit{Environmental precautions: } Do not allow to enter sewers/ \textit{surface or ground water.}$
- Methods and material for containment and cleaning up:

Cover spilled material with neutralization solution (see below) and mix Wait 15 minutes. Collect material in openhead metal containers. Repeat neutralization and cleaning process until surface is decontaminated. Apply drum lid but DO NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape.

(Contd. on page 4)

USA

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

(Contd. of page 3)

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

Neutralization solutions:

1. A mixture of 90% water. 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

2. A mixture of 80% water, 20% non-ionic surfactant.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

· Handling:

· Precautions for safe handling

Avoid prolonged or repeated contact with skin.

Avoid contact with eyes.

Wash thoroughly after handling.

Open containers in a well ventilated area and avoid breathing headspace vapors.

Open and handle receptacle with care.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Product reacts with water. Reaction may produce heat and/or gases. Container may rupture from gas generation in a fire situation. This reaction may be violent.

Keep container closed when not in use.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles:

Keep containers tightly closed when not in use. Protect from atmospheric moisture.

· Information about storage in one common storage facility: Keep away from open flames and high temperatures.

- 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.

· Control parameters

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

108-65-6 2-methoxy-1-methylethyl acetate

WEEL Long-term value: 50 ppm 117-81-7 bis(2-ethylhexyl) phthalate

PEL Long-term value: 5 mg/m³ REL Short-term value: 10 mg/m³ Long-term value: 5 mg/m³ See Pocket Guide App. A

TLV Long-term value: 5 mg/m³

(Contd. on page 5)

USA

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

101-6	8-8 4,4'-methylenediphenyl diisocyanate (Contd. of page	
PEL	Ceiling limit value: 0.2 mg/m ³ , 0.02 ppm	
REL	Long-term value: 0.05 mg/m ³ , 0.005 ppm Ceiling limit value: 0.2* mg/m ³ , 0.02* ppm *10-min	
TLV	Long-term value: 0.051 mg/m ³ , 0.005 ppm	
100-4	2-5 styrene	
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs	
REL	Short-term value: 425 mg/m³, 100 ppm Long-term value: 215 mg/m³, 50 ppm	
TLV	Short-term value: 170 mg/m³, 40 ppm Long-term value: 85 mg/m³, 20 ppm BEI	
· Ingred	dients with biological limit values:	
100-4	2-5 styrene	
N T	100 mg/g creatinine Aedium: urine Fime: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific)	
0	0.2 mg/L	
	<i>Aedium: venous blood</i>	
Time: end of shift		
	Parameter: Styrene (semi-quantitative)	
· Additi	ional information:	
regula	products have poor warning properties, since recognition of an odor is far above the TLV. Observe OSHA ations for respirator use (29 CFR 1910.134). sts that were valid during the creation were used as basis.	
· Expos	ure controls	
	nal protective equipment (see listings below)	
· Gener	al protective and hygienic measures:	
	away from foodstuffs, beverages and feed.	
	liately remove all soiled and contaminated clothing.	
	hands before breaks and at the end of work.	
	protective clothing separately. contact with the eyes.	
	contact with the eyes and skin.	
	hing equipment:	
Use a _l manuf	poproved respiratory protection equipment when airborne exposure is excessive. Consult the respirator facturer to determine the appropriate type of equipment for a given application. Observe respirator use tions specified by the manufacturer.	
· Protec	ction of hands:	
	Protective gloves	
The gl	love material has to be impermeable and resistant to the product/ the substance/ the preparation. (Contd. on pag	

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

· 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.

· 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

· General Information		
· Appearance:	.	
Form:	Liquid	
Color:	Grey or Black Characteristic	
· Odor: · Odour threshold:	Not determined.	
· Oaour inresnoia:		
· pH-value:	Not determined.	
· Change in condition		
Melting point:	Undetermined.	
Boiling point:	146 °C (295 °F)	
· Flash point:	55 °C (131 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	315 °C (599 °F)	
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Combustible	
· Flammable limits:		
Lower:	1.5 Vol %	
Upper:	10.8 Vol %	
· Vapor pressure at 20 °C (68 °F):	3.4 hPa (3 mm Hg)	
• Specific gravity at 20 •C (68 •F):	1.32 g/cm ³ (11.015 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wate	**	

(Contd. on page 7)

USA

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

Printing Date 06/23/2015

· Vis	cosity:
-------	---------

Dynamic:

Kinematic: • Other information Not determined. Not determined. VOC content: Less than 25%

10 Stability and reactivity

· Reactivity

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions

May produce violent reactions with bases and numerous organic substances including alcohols and amines. MDI reacts slowly with water to form Carbon Dioxide gas. This gas can cause sealed containers to expand and possibly rupture. Contact with moisture, other materials that react with isocyanates, or temperatures above 350F, may cause polymerization.

- Conditions to avoid
- Moisture

Exposure to high temperatures.

· Incompatible materials:

Reacts with amines, caustic alkali solutions, alcohols, ammonia, oxidizers, acids, polyols.

Reacts with water forming carbon dioxide-may rupture sealed containers if contaminated with water.

• Hazardous decomposition products: Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanic acid, other undeterminated compounds.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

117-81-7 bis(2-ethylhexyl) phthalate

Oral LD50 30600 mg/kg (rat)

Dermal LD50 25000 mg/kg (rabbit)

101-68-8 4,4'-methylenediphenyl diisocyanate

Oral LD50 2200 mg/kg (mouse)

• on the eye: Irritating effect.

· Sensitization:

Inhalation - Sensitization possible through inhalation.

Skin Contact - Sensitization possible through skin contact.

• Additional toxicological information:

May cause allergic respiratory reaction.

Animal tests have indicated that respiratory sensitization can result from skin contact with MDI. Use skin protection.

Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this product. The product shows the following dangers according to internally approved calculation methods for preparations: Harmful

(Contd. on page 8)

USA

(Contd. of page 6)

[·] Primary irritant effect:

[•] on the skin: Irritant to skin and mucous membranes.

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

117-81-7 bis(2-ethylhexyl) phthalate

101-68-8 4,4'-methylenediphenyl diisocyanate 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

100-42-5 styrene

· NTP (National Toxicology Program)

117-81-7 bis(2-ethylhexyl) phthalate

100-42-5 styrene

· 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.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations. Disposal must be made according to official regulations.

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

14 Transport information · UN-Number · DOT, ADR, ADN, IMDG, IATA not regulated · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA not regulated (Contd. on page 9)

Printing Date 06/23/2015

(Contd. of page 7)

2B

3

3

2B

R

R

USA

[·] Uncleaned packagings:

Revision Date 06/23/2015

Printing Date 06/23/2015

Revision Number 1

Trade name: BD Loop Goop

	(Contd. of page
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	not regulated
· Packing group	
· DOT, ADR, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
\cdot Special precautions for user	Not applicable.
· Transport in bulk according to Annex L	I of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	MDI (CAS 101-68-8) exhibits a CERCLA RQ equal to 5,000 pounds
	Quantites less than the RQ amount are not regulated in
	transportation.
· 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.

· Section 313 (Specific toxic chemical listings):

117-81-7 bis(2-ethylhexyl) phthalate

101-68-8 4,4'-methylenediphenyl diisocyanate

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

100-42-5 styrene

· TSCA (Toxic Substances Control Act):

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

· Proposition 65

· Chemicals known to cause cancer:

117-81-7 bis(2-ethylhexyl) phthalate

· Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

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

· Cancerogenity categories

· EPA (Environmental Protection Agency)		
	bis(2-ethylhexyl) phthalate	B2
101-68-8	4,4'-methylenediphenyl diisocyanate	D, CBD
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	CBD
•	shold Limit Value established by ACGIH)	
117-81-7 l	pis(2-ethylhexyl) phthalate	A3
	(Contd.	on page 10)

US 4

Safety Data Sheet acc. to OSHA HCS

Printing Date 06/23/2015

Revision Number 1

Revision Date 06/23/2015

Trade name: BD Loop Goop

		(Contd. of page 9)
100-42-5 s		A4
	man Maximum Workplace Concentration)	
	bis(2-ethylhexyl) phthalate	4
101-68-8	4,4'-methylenediphenyl diisocyanate	4
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	4
100-42-5	styrene	5
· NIOSH-Ca	(National Institute for Occupational Safety and Health)	
117-81-7 l	pis(2-ethylhexyl) phthalate	

· National regulations:

- Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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: Environment protection department.
- · Creation Date: 06/23/2015
- · Date of preparation / last revision 06/23/2015 / -

• Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 3: Flammable liquids, Hazard Category 3 Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Repr. 1B: Reproductive toxicity, Hazard Category 1B