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Safety Data Sheet acc. to OSHA HCS

Printing Date 01/31/2019

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Revision Number 1

Revision Date 01/31/2019

riniing Dale 01	51/2019	Revision Number 1	Revision Date 01/51/2019
1 Identificat	ion		
· Product iden	tifier		
• Relevant ide Industrial Us Sealant		ubstance or mixture.	
• Manufacture Royal Adhest 266 Humber	ives & Sealants Can	ada Ltd , Ontario, Canada M9W 5X1	
· Emergency t	telephone number:	l Regulatory Department. CANUTEC Collect: (613) 996-6666 (24-hour	r hotline)
2 Hazard(s)	identification		
	n of the substance o	r mixture	
	HS08 Health hazard		
Resp. Sens. 1	H334 May cause a	allergy or asthma symptoms or breathing di <u>f</u>	fficulties if inhaled.
Carc. 2	H351 Suspected of	f causing cancer.	
Repr. 1B	H360 May damag	e fertility or the unborn child.	
STOT RE 2	H373 May cause a	damage to organs through prolonged or repo	eated exposure.
GI	HS07		
Skin Irrit. 2	H315 Causes skin	irritation.	
Eye Irrit. 2A	H319 Causes serie	ous eye irritation.	
Skin Sens. 1	H317 May cause of	an allergic skin reaction.	

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

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



• Signal word Danger • Hazard statements Causes skin irritation.

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Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.
· Precautionary statements
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/protective clothing/eye protection/face protection.
[In case of inadequate ventilation] wear respiratory protection.
If on skin: Wash with plenty of water.
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.
Specific treatment (see on this label).
Get medical advice/attention if you feel unwell.
Take off contaminated clothing and wash it before reuse.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
If experiencing respiratory symptoms: Call a poison center/doctor.
Wash contaminated clothing before reuse.
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
\sim
HMIS-ratings (scale 0 - 4)
mm15-ruings (scule 0 - 4)
HEALTH ^{*2} $Health = *2$
FIRE 1 $Fire = 1$
PHYSICAL HAZARD 1 Physical Hazard = 1
· Other hazards
· Results of PBT and vPvB assessment
• PBT: Not applicable.
• vPvB: Not applicable.
3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture

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· Hazardous	components:	
117-81-7	bis(2-ethylhexyl) phthalate	25-50%
9016-87-9	diphenylmethanediisocyanate,isomeres and homologues{polymer exempt)	10-25%
101-68-8	4,4'-methylenediphenyl diisocyanate	10-25%
5873-54-1	o-(p-isocyanatobenzyl)phenyl isocyanate	2.5-10%
107-21-1	ethanediol	2.5-10%

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.

Immediately remove any clothing soiled by the product.

• 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. If skin becomes irritated seek medical attention.

· After eye contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

- After swallowing:
- Rinse mouth with water.

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.

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.

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		(Conta. of page 5)
	nd material for containment and cleaning up:	
	ed material with neutralization solution (see below) and mix Wait 15 minutes. Colle	
	containers. Repeat neutralization and cleaning process until surface is decontamin	ated. Apply drum
	NOT secure. Allow containers to vent for 72 hours to let carbon dioxide escape.	
	h liquid-binding material (sand, diatomite, acid binders, universal binders, sawdus	
	contaminated material as waste in accordance with federal state and local regulation	ons.
	equate ventilation.	
	to other sections tion solutions:	
		uid detenaent
	e of 90% water. 3-8% ammonium hydroxide or concentrated ammonia, and 2% liq e of 80% water, 20% non-ionic surfactant.	ula delergeni.
	tion. Wait 15 minutes. Collect in open-head container. Re-apply until surface is dec	ontaminated Apply
	it DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to esc	
lid.		ape. Secure aram
	n 7 for information on safe handling.	
	a 8 for information on personal protection equipment.	
	1 13 for disposal information.	
	Action Criteria for Chemicals	
· PAC-1:	-	
117-81-7	bis(2-ethylhexyl) phthalate	10 mg/m ³
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	0.15 mg/m ³
101-68-8	4,4'-methylenediphenyl diisocyanate	$0.45 \ mg/m^3$
107-21-1	ethanediol	30 ppm
· PAC-2:		
117-81-7	bis(2-ethylhexyl) phthalate	1,000 mg/m ³
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	3.6 mg/m ³
101-68-8	4,4'-methylenediphenyl diisocyanate	$5 mg/m^3$
107-21-1	ethanediol	150 ppm
· PAC-3:		•
117-81-7	bis(2-ethylhexyl) phthalate	6,100 mg/m ³
9016-87-9	diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	22 mg/m ³
101-68-8	4,4'-methylenediphenyl diisocyanate	55 mg/m ³
107 21 1	ethanediol	900 ppm

7 Handling and storage

· Handling:

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· Precautions for safe handling

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

- Open and handle receptacle with care.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

• Information about protection against explosions and fires: Product reacts with water. Reaction may produce heat and/or gases. 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.

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

• Further information about storage conditions: Protect from humidity and water.

Protect product from freezing.

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.

· 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.

117-81	1-7 bis(2-ethylhexyl) phthalate
PEL	Long-term value: 5 mg/m ³
REL	Short-term value: 10 mg/m ³
	Long-term value: 5 mg/m ³
	See Pocket Guide App. A
TLV	Long-term value: 5 mg/m ³
101-68	3-8 4,4'-methylenediphenyl diisocyanate
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
107-21	-1 ethanediol
TLV	Short-term value: 10** mg/m ³ , 50* ppm
	Long-term value: 25* ppm
	*vapor fraction:**inh. fraction, aerosol only
WEEL	<i>I</i> (2)
· Additie	onal information:
	roducts have poor warning properties, since recognition of an odor is far above the TLV. Observe OSHA tions for respirator use (29 CFR 1910.134).
The lis	ts that were valid during the creation were used as basis.
· Exposit	ure controls
-	nal protective equipment (see listings below)
	al protective and hygienic measures:
	way from foodstuffs, beverages and feed.
	liately remove all soiled and contaminated clothing.
	hands before breaks and at the end of work.
	protective clothing separately.
Avoid	contact with the eyes and skin.

· Breathing equipment:

Airborne MDI concentrations greater than the ACGIH TLV-TWA or OSHA PEL can occur in inadequately ventilated environments when MDI is sprayed or heated. In such cases respiratory protection is require. 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.

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[·] Control parameters

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• 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

Chloroprene rubber, CR

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.



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Tightly sealed goggles

Use full face shield over protective eye wear when there is a risk of a splash. **.** *Body protection: Protective work clothing*

Information on basic physical and	chemical properties	
General Information		
· Appearance:		
Form:	Liquid	
Color:	Not determined.	
· Odor:	Characteristic Not determined.	
• Odor threshold:	Noi delerminea.	
pH-value:	Not determined.	
Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined	
Flash point:	> 100 °C (>212 °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.	
Flammable limits:		
Lower:	0.2 Vol %	
Upper:	0.2 Vol %	
· Vapor pressure:	Not determined.	

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· Specific gravity:		
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-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Solids content:	Not available.	
• 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

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 monoxide and carbon dioxide Nitrogen oxides (NOx) Dense smoke Isocyanate Isocyanic acid Hydrogen cyanide (prussic acid)

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 30,600 mg/kg (rat)

Dermal LD50 25,000 mg/kg (rabbit)

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

Oral LD50 2,200 mg/kg (mouse)

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Primary irritant effect:	
on the skin: Skin irritant.	
on the eye: Causes serious eye irritation.	
Sensitization:	
Inhalation - Sensitization possible through inhalation.	
Skin Contact - Sensitization possible through skin contact.	
Additional toxicological information:	
The product shows the following dangers according to internally approved calculation methods for	r preparation
Harmful	
Irritant	
Canain agamia agtagomias	
Carcinogenic categories	
• Carcinogenic categories • IARC (International Agency for Research on Cancer)	
	2.
· IARC (International Agency for Research on Cancer)	
IARC (International Agency for Research on Cancer) 117-81-7 bis(2-ethylhexyl) phthalate	3
IARC (International Agency for Research on Cancer)117-81-7bis(2-ethylhexyl) phthalate9016-87-9diphenylmethanediisocyanate,isomeres and homologues{polymer exempt)	3
IARC (International Agency for Research on Cancer)117-81-7bis(2-ethylhexyl) phthalate9016-87-9diphenylmethanediisocyanate,isomeres and homologues{polymer exempt)101-68-84,4'-methylenediphenyl diisocyanate	2 3 3
IARC (International Agency for Research on Cancer) 117-81-7 bis(2-ethylhexyl) phthalate 9016-87-9 diphenylmethanediisocyanate,isomeres and homologues{polymer exempt) 101-68-8 4,4'-methylenediphenyl diisocyanate • NTP (National Toxicology Program)	3

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 be specially treated adhering to official regulations.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· DOT, ADN, IMDG, IATA

not regulated

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Trade name: BD Loops Loop Goop2 Iso

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· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex L MARPOL73/78 and the IBC Code	I of Not applicable.	
· Transport/Additional information:	Not dangerous according to the above specifications.	
· UN ''Model Regulation'':	not regulated	

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):

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

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}

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

107-21-1 ethanediol

· 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 Dosmestic 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:

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

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}

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

107-21-1 ethanediol

· New Jersey Special Hazardous Substance List:

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

· Pennsylvania Right-to-Know List:

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

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101-68-8 4,4'-methylenediphenyl diisocyanate	
107-21-1 ethanediol	
· Pennsylvania Special Hazardous Substance List:	
117-81-7 bis(2-ethylhexyl) phthalate	ES
101-68-8 4,4'-methylenediphenyl diisocyanate	E
107-21-1 ethanediol	E
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
117-81-7 bis(2-ethylhexyl) phthalate	<i>B2</i>
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}	CBD
101-68-8 4,4'-methylenediphenyl diisocyanate	D, CBL
· TLV (Threshold Limit Value established by ACGIH)	
117-81-7 bis(2-ethylhexyl) phthalate	Aŝ
107-21-1 ethanediol	A_{4}
• MAK (German Maximum Workplace Concentration)	
117-81-7 bis(2-ethylhexyl) phthalate	4

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues {polymer exempt}

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

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

117-81-7 bis(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:** Global Regulatory Department.

- reg.request@hbfuller.com
- Creation Date: 01/31/2019
- Date of preparation / last revision 01/31/2019 / -
- · 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 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) 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 Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Carc. 2: Carcinogenicity – Category 2 Repr. 1B: Reproductive toxicity – Category 1B 	(Contd. of page 10)
Repr. 1B: Reproductive toxicity – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	USA



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1 Identification	
· Product identifier	-
 Trade name: <u>BD Loops Loop Goop2 Polyol</u> Relevant identified uses of the substance or mixture. Industrial Use Only. Sealant Application of the substance / the 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: 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	_
GHS08 Health hazard	
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. GHS07	
Skin Irrit. 2 H315 Causes skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation. STOT SE 3 H335 May cause respiratory irritation.	
 Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS) Hazard pictograms).
 GHS07 GHS08 Signal word Danger Hazard statements Causes skin irritation. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. 	
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Trade name: BD Loops Loop Goop2 Polyol

Precautionary statements Avoid breathing dust/fume/gas/nist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection f face protection. If n case of inadequate ventilation] wear respiratory protection. If n case of inadequate ventilation] wear respiratory protection. If n static gloves / eye protection f face protection. If NHALED: Remove person to fresh air and keep comfortable for breathing. If is NHALED: Remove person to fresh air and keep comfortable for breathing. If experiments: Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Classification system: NFPA ratings (scale 0 - 4) VeaLIM If health = 2 Fire = 1 Fire = 1 Protexity = 0 Physical Hazard = 0 Other hazards Physical Hazard = 0 Other hazards		(Contd. of page 1
Avoid breathing dustfinme/gas/mist/vapors/spray Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection. In case of inadequate ventilation] wear respiratory protection. If no skin: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rise cautionsly with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. Specific treatement (see on this label). 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. If eye privation occurs: Get medical advice/attention. If eye privation persists: Get medical advice/attention. If eye privation persists: Get medical advice/attention. If eye privation system: NEPA ratings (scale 0 - 4) V V U U U U U U U U	· Precautionary statements	(Conta. of page 1
Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves / eye protection / face protection. [In case of inadequate ventilation] wear respiratory protection. [In case of inadequate ventilation] wear respiratory protection. [I not skin: Wash with plenty of water. 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. Call a poison center/doctor if you feel unwell. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye princing respiratory symptoms: Call a poison center/doctor. 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) MEALTH 2 Fire = 1 PHYSICAL HAZRD PH Basessment PSF: Not applicable. Physical Hazard = 0 Other hazards Results of PBT and PFB assessment PST: Not applicable. PTSF: Not applicable. Composition/information on ingredients Chemical characterization: Mixtures Description: Mixture Heardows components: Id1-05-9 dithyl maleate 2 25.00%		
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Hazardous components: 141-05-9 diethyl maleate 25-50%	• Chemical characterization: Mixtures • Description: Mixture	
	· Hazardous components:	
	141-05-9 diethyl maleate	25-50%
	9046-10-0 Polyoxypropylenediamine	5-20%

- *
- 4 First-aid measures

107-21-1 ethanediol

- \cdot 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.

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• After skin contact:

Immediately wash with water and soap and rinse thoroughly. If skin becomes irritated seek medical attention.

• After eye contact:

Rinse opened eye for 20 minutes under running water. If eye becomes irritated, obtain medical treatment.

• **After swallowing:** Rinse mouth with water.

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.

• 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
- 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:				
	Polyether Polyol	30 mg/m ³		
103-23-1	Di-(2-ethylhexyl) adipate	17 mg/m ³		
107-21-1	ethanediol	30 ppm		
· PAC-2:				
	Polyether Polyol	330 mg/m ³		
103-23-1	Di-(2-ethylhexyl) adipate	180 mg/m ³		
107-21-1	ethanediol	150 ppm		
		(Contd. on page 4		

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		(Contd. of page 3)
· PAC-3:		
	Polyether Polyol	$2,000 mg/m^3$
103-23-1	Di-(2-ethylhexyl) adipate	1,100 mg/m ³
107-21-1	ethanediol	900 ppm

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.

· 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: Protect from humidity and water.

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 remaining constituent has no known exposure limits.

107-21-1 ethanediol

TLV Short-term value: 10** mg/m³, 50* ppm Long-term value: 25* ppm *vapor fraction:**inh. fraction, aerosol only

WEEL *I*(2)

• 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 skin. Avoid contact with the eves 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.

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· 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

Chloroprene rubber, CR

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:



*

Tightly sealed goggles

Use full face shield over protective eye wear when there is a risk of a splash. • **Body protection:** Protective work clothing

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.	
Change in condition		
Melting point:	Undetermined.	
Boiling point:	Undetermined	
Flash point:	> 93 °C (>199.4 °F)	
Flammability (solid, gaseous):	Not applicable.	
Ignition temperature:	340 °C (644 °F)	
Decomposition temperature:	Not determined.	
Auto igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Flammable limits:		
Lower:	Not determined	
Upper:	Not determined	
Vapor pressure:	Not determined.	

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· Specific gravity:		
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-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Solids content:	Not available.	
• 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 Exposure to high temperatures. Moisture Incompatible materials: Strong
- Incompatible materials: Strong oxidizers, acids, and bases.
- · 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:

141-05-9 diethyl maleate

Oral LD50 3,200 mg/kg (rat)

Dermal LD50 4,000 mg/kg (rabbit)

- · Primary irritant effect:
- on the skin: Skin irritant.
- \cdot on the eye: Causes serious eye irritation.
- Sensitization: Inhalation May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- · Additional toxicological information:

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

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

103-23-1 Di-(2-ethylhexyl) adipate

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· 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:
- $\cdot \textit{Bioaccumulative potential No further relevant information available}.$
- · *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 be specially treated adhering to official regulations.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information	
· UN-Number · DOT, ADN, IMDG, IATA	not regulated
· UN proper shipping name	

· UN proper shipping name · DOT, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· DOT, ADN, IMDG, IATA · Class	not regulated	
· Packing group · DOT, IMDG, IATA	not regulated	
· Environmental hazards: · Marine pollutant:	Yes	
· Special precautions for user	Not applicable.	
• Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
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· UN ''Model Regulation'':

not regulated

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):
- 107-21-1 ethanediol

• 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 Dosmestic 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-k	now l	List:

103-23-1 Di-(2-ethylhexyl) adipate

107-21-1 ethanediol

New Jersey Special Hazardous Substance List:

103-23-1 Di-(2-ethylhexyl) adipate

· Pennsylvania Right-to-Know List:

103-23-1 Di-(2-ethylhexyl) adipate

107-21-1 ethanediol

· Pennsylvania Special Hazardous Substance List:

103-23-1 Di-(2-ethylhexyl) adipate

107-21-1 ethanediol

· Cancerogenity categories

· EPA (Environmental Protection Agency)

103-23-1 Di-(2-ethylhexyl) adipate

· TLV (Threshold Limit Value established by ACGIH)

107-21-1 ethanediol

· 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 1 (Self-assessment): slightly hazardous for water.

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

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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. reg.request@hbfuller.com

· Creation Date: 01/31/2019

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· 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A Resp. Sens. 1: Respiratory sensitisation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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