POLYFLEX
BOND BEYOND BOUNDARIES

Version: A/2
Date: April 4, 2023

MSDS Report

Samples Description PolyFlex Vanguard

Applicant West Coast Adhesives Ltd.

Address Unt 108 - 11500 Bridegeport Rd, Richmond,
B.C V6X 1T2

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Material Safety Data Sheet

Reference to ST/SG/AC. 10/30/Rev.5(GHS)

Section 1 –Chemical Product and Company Identification

Chemical product identification

Sample Description: PolyFlex Vanguard

Sample Model: N/A

Recommended Uses: adhesive and sealant

Restrictions on use: N/A

Supplier name: West Coast Adhesives Ltd.

Address: Unt 108-11500 Bridgeport Rd, Richmond, B.C V6X 1T2h

Phone number: (604)233-7791

E-mail: info@westcoastadhesives.ca

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

Carc. 2 H351 Suspected of causing cancer.

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

GHS07

Acute Tox. 4 H332 Harmful if inhaled. Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of Regulation (EC) No.1272/2008.

Classification system:

The classification is according to the latest edition of EU Regulation (EC) No. 1272/2008, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms


GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

4,4'-methylenediphenyl diisocyanate

Hazard statements

H332 Harmful if inhaled. H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H335 May cause respiratory irritation.

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

Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 [In case of inadequate ventilation] wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards:

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3 – Conposition, Informatiom on Ingredients

Chemical characterization: Mixture

Component	CAS No.	EC#	Weight (%)
4,4'-Diphenylmenthane diisocyanate	101-68-8	202-966-0	0.1-1.5
Polyurethane Prepolymer	103837-45-2	---	25-45
Di-isononyl phthalate	28553-12-0	249-079-5	15-30
carbon black	1333-86-4	215-609-9	0-5
Calcium carbonate	471-34-1	207-439-9	50-70

Section 4 – First Aid Measures

4.1 Description of first aid measures

General description:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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.

After eye contact:

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

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed:

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

Section 5 – Fire Fighting Measures

5.1 Suitable extinguishing media:

Use extinguishingagent suitable for local conditions and the surrounding environment.

Such as dry powder, CO_2.

5.2 Unsuitable extinguishing media: Not available.

5.3 Special hazards arising from the chemical: Not available.

5.4 Special protective actions for fire-fighters:

Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

Section 6 – Accidental Release Measures

Normal use does not require special measures, industrial production in the long term, refer to the following.

6.1 Personal precautions:

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.

6.2 Protective equipment:

No further relevant information available.

6.3 Emergency procedures:

Remove ignition sources, evacuate area. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

6.4 Environmental precautions:

Do not allow material to be released t the environment without proper governmental permits.

6.5 Methods and materials for containment and cleaning up:

All waste must refer to the United Nations, the national and local regulations for

disposal.

See Section 7 for information on safe handing.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 – Handling and Storage

Normal use does not require special measures , industrialproduction in the long term , refer to the following :

7.1 Precautions for safe handing:

Storage in a cold, dry, well ventilated environment. Store away from food and water supplies. Wash your hands thoroughly before eating and drinking. Storage of chemicals needed to prevent the generation and accumulation of static electricity when handing the container. Stay away from taboo, such as strong oxidizing agents.

7.2 Information about fire and explosion protection

The Product is non-flammable.

7.3 Conditions for safe storage, including any incompatibilities

7.4 Requirements to be met by storerooms and receptacles

Store in a cool place. Keep container closed, store in a dry and ventilated place.

7.5 Information about storage in one common storage facility

Moisture absorption.

7.6 Further information about storage conditions

Keep container tightly sealed.

7.7 Specific and use

No further relevant information available.

Section 8 – Exposure Controls, Personal Protection

8.1 Control parameters

·***Ingredients with limit values that require monitoring at the workplace:***	
28553-12-0 di-isononyl	
WEL (Great Britain)	
471-34-1 Calcium	
VME (France)	*Long-term value: 10*
1333-86-4 carbon black	
WEL (Great Britain) *VME (France)*	*Short-term value: 7 mg/m³* *Long-term value: 3.5 mg/m³*
101-68-8 4,4'-methylenediphenyl diisocyanate (0.1-1.5%)	
WEL (Great Britain) *AGW (Germany)* *VME (France)*	*Short-term value: 0.07 mg/m³* *Long-term value: 0.02* *Long-term value: 0.05 E mg/m³* *Short-term value: 0.2 mg/m³, 0.02 ppm* *AR, C2*

Regulatory information

WEL (Great Britain): EH40/2018

VME (France): ED 984, 10.2016

AGW (Germany): TRGS 900

DNELs: Not available

PNECs: Not available

Ingredients with biological limit values:	
101-68-8 4,4'-methylenediphenyl	
BMGV (Great Britain)	*1 µmol creatinine/mol* *Medium: urine*

BGW (Germany)	*Sampling time: At the end of the period od exposure Parameter: isocyanate-derived diamine* *10 µg/g Kreatinin* *Untersuchungsmaterial:Urin* *Probennahmezeitpunkt: Expositionsende bzw. Schichtende* *Parameter: 4.4'-Diaminodiphenylmethan*

Additional information: The lists valid during the making were used as basis

8.2 Exposure controls

Based on the composition shown in Section 3, the following measures are suggested for occupational safety measure.

Appropriate engineering controls:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

See Section 7 for information about design of technical facilities.

Personal protective equipment

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the

product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles

Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

Colour: Black, white or grey.

Physical State:	Paste.
Odour:	Not available.
Odour threshold:	Not available.
pH:	Not available.
Melting point/freezing point:	Not available.
Initial boiling point and boiling range:	Not available.
Flash point:	>180 °C (Closed cup).
Evaporation rate:	Not available.
Flammability(solid, gas):	Non-Flammable.
Explosion limits(vol% in air):	Not available.
Vapour pressure,kPa at 20℃:	Not available.
Vapour density:	Not available
Density/Relative density (water =1):	Not available.
Solubility (ies):	Poorly soluble in water.
Partition coefficient: n-octanol/water:	Not available.
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.

Section 10 – Stability and Reactivity

10.1 Chemical stability: Stable.

10.2 Possibility of hazardous reactions: Data not available.

10.3 Conditions to Avoid: Incompatible materials.

10.4 Incompatibilities Materials: Data not available.

10.5 Hazardous Combustible Products: Carbon oxide.

Section 11 – Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Harmful if inhaled.

LD/LC50 values relevant for classification:		
471-34-1 Calcium carbonate		
Oral	LD50	6,450 mg/kg (rat)
1333-86-4 carbon black		
Oral	LD50	10,000 mg/kg (rat)
101-68-8 4,4'-methylenediphenyl diisocyanate		
Oral	LD50	2,200 mg/kg (mouse)

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause

an allergic skin reaction.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Section 12 –Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

12.7 **Additional ecological information:**

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging

Recommendation: Disposal must be made according to official regulations.

Section 14 – Transport Information

14.1 UN Number	
IATA, IMDG, Model Regulation	Not applicable
14.2 UN Proper shipping name	
IATA, IMDG, Model Regulation	Not applicable
14.3 Transport hazard class(es)	
IATA, IMDG , Model Regulation	Not applicable
14.4 Packing group	

IATA, IMDG, Model Regulation	Not applicable
14.5Environmental hazards **IATA, IMDG, Model Regulation**	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC CodeNot applicable	Not applicable.
· UN"Model Regulation":	Void

Section 15 – Regulatory information

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

MAK(German Maximum Workplace Concentration)		
101-68-8	4,4'-methylenediphenyl diisocyanate	4
1333-86-4	carbon black	3B

Directive 2012/18/EU*1333-86-4*

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category Not applicable

Qualifying quantity (tonnes) for the application of lower-tier requirements Not applicable

Qualifying quantity (tonnes) for the application of upper-tier requirements Not applicable

National regulations:

Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

Other regulations, limitations and prohibitive regulations

SVHC Candidate List of REACH Regulation Annex XIV Authorisation (25/6/2020)
None of the ingredients is listed
REACH Regulation Annex XVII Restriction (20/06/2019) **See Section 16 for information about restriction of use.**
None of the ingredients is listed
REACH Regulation Annex XIV Authorisation List (06/2/2020)
None of the ingredients is listed

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

Section 16 – Additional Information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein,we cannot guarantee that these are the only hazards that exist.

End of report