PU Sealant-Bodywork purpose (UR-2000-BEI-RE, UR-2000-WHT-RE, UR-2000-GRY-RE, UR-2000-BLK-RE)

Issue Date：2023-08-18

Revision date：

1. IDENTIFICATION OF THE CHEMICAL AND SUPPLIER

1.1 Product identifier

Product Name : PU Sealant-Bodywork purpose (UR-2000-BEI-RE, UR-2000-WHT-RE, UR-2000-GRY-RE, UR-2000-BLK-RE)

1.2 Manufacturer or supplier's details

Company : ABRO INDUSTRIES, INC.
Office Address : 3580 Blackthorn Court South Bend, IN 46628, USA
Web :
Post code :
Telephone number : +574-232-8289
Fax number :
E-mail :

1.3 Recommended use of the chemical and restrictions on use

Recommended Use : Bonding and sealing
Advised Against : At this moment in time we do not have information on use restrictions. They will be included in this document when available.

1.4 Emergency Number

Emergency Number : Chemtrec: US/Canada 1-800-424-9300
International +1-703-527-3887

2. HAZARDS IDENTIFICATION

2.1 GHS Classification

Skin Irrit. : Cate.2
Skin Sens. : Cate.1
Eye Irrit. : Cate.2
Acute Tox. : Cate.4
Resp. Sens. : Cate.1
STOT SE : Cate.3
Carc. : Cate.2
STOT RE : Cate.2

2.2 GHS Labelling

Hazard pictograms :

Signal Word : Danger

Hazard Statements

H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 : May cause respiratory irritation.
H351 : Suspected of causing cancer.

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

Precautionary Stat

Prevention

P264	:	Wash thoroughly after handling.
P280	:	Wear protective gloves/protective clothing/eye protection/face protection.
P261	:	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	:	Contaminated work clothing should not be allowed out of the workplace.
P271	:	Use only outdoors or in a well-ventilated area.
P285	:	In case of inadequate ventilation wear respiratory protection.
P201	:	Obtain special instructions before use.
P202	:	Do not handle until all safety precautions have been read and understood.
P281	:	Use personal protective equipment as required.
P260	:	Do not breathe dust/fume/gas/mist/vapours/spray.

Response

P302+P352	:	IF ON SKIN: Wash with plenty of soap and water.
P321	:	Specific treatment (see the instructions on this label).
P332+P313	:	If skin irritation occurs: Get medical advice/attention.
P362	:	Take off contaminated clothing and wash before reuse.
P333+P313	:	If skin irritation or rash occurs: Get medical advice/attention.
P363	:	Wash contaminated clothing before reuse.
P305+P351+P338	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	:	If eye irritation persists: Get medical advice/attention.
P304+P340	:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	:	Call a POISON CENTER or doctor/physician if you feel unwell.
P304+P341	:	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311	:	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P308+P313	:	IF exposed or concerned: Get medical advice/attention.
P314	:	Get medical advice/attention if you feel unwell.

Storage

P403+P233	:	Store in a well-ventilated place. Keep container tightly closed.
P405	:	Store locked up.

Disposal

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

2.3 Hazard description

Physical and chemical hazards

No information available

Health hazards

Inhaled	:	Inhalation of dusts or fumes, especially for prolonged periods, may produce respiratory discomfort and occasionally, distress. Inhalation of dusts or fumes may cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of dusts or fumes, generated by the product during the course of normal handling, may produce severely toxic effects; these may be harmful.
Ingestion	:	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	:	The product may cause an allergic skin reaction following direct contact with the skin. The product can cause skin irritation following direct contact with the skin.
Eye	:	This product may cause serious eye irritation. Severe inflammation may be expected with pain following direct contact with the eye.

Environmental hazards

Environmental hazards : Please refer to Section 12 of the SDS.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance/mixture

Mixture

3.2 Components

Component	CAS-No.	Concentration(Wt%)	Classification
Polyurethane Prepolymer	103837-45-2	45~65	Skin Irrit. 2 H315; Skin Sens. 1 H317; Eye Irrit. 2 H319; Acute Tox. 4 H332; STOT SE 3 H335; STOT RE 2 H373
DINCH	166412-78-8	15~35	Not classified
Diphenylmethane-4,4'-diisocyanate	101-68-8	<0.3	Resp. Sens. 1 H334; Eye Irrit. 2 H319; Carc. 2 H351; Skin Irrit. 2 H315; Acute Tox. 4 H332; Skin Sens. 1 H317; STOT RE 2 H373; STOT SE 3 H335
Limestone	1317-65-3	10~30	Not classified
Carbon black	1333-86-4	0.1~2	Not classified

***The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.**

4. FIRST AID MEASURES

4.1 Description of necessary first aid measures

General advice : Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.

Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Skin contact : Take off contaminated clothing and shoes immediately.
Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

Ingestion : DO NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Call a physician or Poison Control Center immediately.

Inhalation : Move victim into fresh air. If breathing is difficult, give oxygen.
Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance.
If not breathing, give artificial respiration and consult a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
May cause an allergic skin reaction, serious eye irritation, damages to organs through prolonged or repeated exposure.
Ingestion is likely to be harmful or have adverse effects.

4.3 Protection of first-aiders

First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.

Ensure that medical personnel are aware of the substance involved.

Take precautions to protect themselves and prevent spread of contamination.

4.4 Notes to physician

Treat symptomatically and supportively.

Symptoms may be delayed.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	:	Use extinguishing agent suitable for type of surrounding fire.
Unsuitable extinguishing media	:	There is no restriction on the type of which extinguishing to be used.

5.2 Specific hazards arising from the substance or mixture

Development of hazardous combustion gases or vapor possible in the event of fire.
May expansion or decompose explosively when heated or involved in fire.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
Fight fire from a safe distance, with adequate cover.
Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.
Follow safe handling advice and personal protective equipment recommendations.
Avoid contact with skin, eyes and inhalation of vapors.
Remove all sources of ignition.
Use personal protection recommended in Section 8.

6.2 Environmental precautions

Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are appl

6.4 Reference to other sections

See Section 7, Ssection 8, Section 13, Senction 15 for more information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling is performed in a well ventilated place.
Wear suitable protective equipment.
Avoid contact with skin and eyes.
Keep away from heat/sparks/open flames/ hot surfaces.
Take care to prevent spills, waste and minimize release to the environment.
Persons susceptible to allergic reactions should not handle this product.

7.2 Precautions for storage

Keep containers tightly closed.
Keep containers in a dry, cool and well-ventilated place.
Keep away from heat/sparks/open flames/hot surfaces.
Store away from incompatible materials and foodstuff containers.

7.3 Materials to avoid

Strong oxidizing agents, Organic peroxides, Acids, Foodstuffs, Explosives, Hot, Heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

Component	CAS No	PC-TWA/ppm	PC-TWA/mg/m3	PC-STEL/ppm	PC-STEL/mg/m3	Country/Region
Diphenylmethane-4,4'-diisocyanate	101-68-8	-	0.05	-	0.05	Germany (AGS)
Diphenylmethane-4,4'-diisocyanate	101-68-8	0.005	0.05	0.01	0.1	Denmark
Diphenylmethane-4,4'-diisocyanate	101-68-8	-	0.02	-	0.07	Ireland
Diphenylmethane-4,4'-diisocyanate	101-68-8	-	-	0.02	0.2	USA - OSHA
Diphenylmethane-4,4'-diisocyanate	101-68-8	0.005	0.055	-	-	South Korea
Carbon black	1333-86-4	-	3.5	-	-	South Korea
Carbon black	1333-86-4	-	3.5	-	-	USA - OSHA
Carbon black	1333-86-4	-	3.5	-	-	France
Carbon black	1333-86-4	-	3	-	-	Australia
Carbon black	1333-86-4	-	3.5	-	7	Denmark
Carbon black	1333-86-4	-	3.5	-	7	Ireland

Biological limit values

Biological limit values : No data available

Monitoring methods

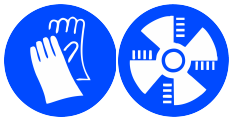
EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
GBZ/T 300.1~GBZ/T 300.160-2017; GBZ/T 300.161~GBZ/T 300.164-2018 Determination of toxic substances in workplace air (Series standard).

8.2 Engineering controls

Ensure adequate ventilation, especially in confined areas.
Ensure that eyewash stations and safety showers are close to the workstation location.
Use explosion-proof electrical/ventilating/lighting/equipment.
Set up emergency exit and necessary risk-elimination area.

8.3 Personal protection equipment

Personal protective equipment



Respiratory protectio: If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges.

Hand protection : Wear protective gloves（such as butyl rubber）, passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Eye protection : Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH (US).

Skin and body protect: Wear fire/flame resistant/retardant clothing and antistatic boots.
Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygienic measures	:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Do not inhale gases / fumes / aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Paste
Odor	:	Slightly
Odor threshold		No information available
pH	:	Not applicable
Melting point/ freezing point	:	No information available
Initial boiling point and boiling range (℃)	:	>35
Flash point (℃)	:	≥95℃ (Closed cup)
Evaporation rate	:	No information available
Flammability	:	Not flammable
Upper explosive limits[% (v/v)]	:	No information available
Lower explosive limits[% (v/v)]	:	No information available
Vapor pressure	:	No information available
Relative vapour density (Air＝1)	:	No information available
Relative density (Water=1)	:	1.45~1.65
Solubility (mg/L)	:	Insoluble
n-octanol/water partition coefficient	:	No information available
Dynamic viscosity	:	Not applicable
Particle characteristics	:	No information available
Explosive properties	:	Non explosive
Oxidizing properties	:	Non oxidizing

10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No date available.
Possibility of hazardous reactions	:	Incompatible materials, heat, flame and spark.
Incompatible materials	:	No date available.
Hazardous decomposition products	:	No date available.

11. TOXICOLOGICAL INFORMATION

11.1 Acute toxicity

Component	CAS-No.	LD50(oral)	LD50(dermal)	LC50(inhalation,4h)
Diphenylmethane-4, 4'-diisocyanate	101-68-8	9200mg/kg(Rat)	No information available	No information available
Carbon black	1333-86-4	> 15400mg/kg(Rat)	> 3000mg/kg(Rabbit)	No information available

11.2 Carcinogenicity

Component	CAS-No.	IARC	NTP
Limestone	1317-65-3	Not Listed	Not Listed
Polyurethane Prepolymer	103837-45-2	Not Listed	Not Listed
DINCH	166412-78-8	Not Listed	Not Listed
Carbon black	1333-86-4	Category 2B	Not Listed
Diphenylmethane-4, 4'-diisocyanate	101-68-8	Category 3	Not Listed

11.3 Others

	PU Sealant-Bodywork purpose
Skin corrosion/irritation :	No further information available
Serious eye damage/ irritation :	No further information available
Skin sensitization :	No further information available
Respiratory sensitization :	No further information available
Reproductive toxicity :	No further information available
STOT-single exposure :	No further information available
STOT-repeated exposure :	No further information available
Aspiration hazard :	No further information available
Germ cell mutagenicity :	No further information available
Reproductive toxicity(additional) :	No further information available

12. ECOLOGICAL INFORMATION

12.1 Acute aquatic toxicity

No further relevant information available.

12.2 Chronic aquatic toxicity

No further relevant information available.

12.3 Persistence and degradability

Component	CAS No.	Persistence (water/soil)	Persistence (air)
Diphenylmethane-4,4'-diisocyanate	101-68-8	Low(Half-life = 1 days)	Low(Half-life = 0.24 days)

12.4 Bioaccumulative potential

Component	CAS-No.	Bioaccumulative potential	Comments
Diphenylmethane-4, 4'-diisocyanate	101-68-8	Low	BCF=15

12.5 Mobility in soil

Component	CAS-No.	Mobility in soil	oil Organic Carbon-Water Partitioning Coefficient (Koc
Diphenylmethane-4, 4'-diisocyanate	101-68-8	Low	376200

12.6 Results of PBT and vPvB assessment

Component	CAS-No.	Results of PBT and vPvB assessment (according to (EC) No 1907/2006)
Limestone	1317-65-3	not PBT/vPvB
Polyurethane Prepolymer	103837-45-2	not PBT/vPvB
DINCH	166412-78-8	not PBT/vPvB
Carbon black	1333-86-4	not PBT/vPvB
Diphenylmethane-4, 4'-diisocyanate	101-68-8	not PBT/vPvB

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with local regulations.
Contaminated packag	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.Do not pierce or burn, even after use. If not otherwise specified: Dispose of as unused product.
Disposal recommenda	:	Refer to section waste chemicals and contaminated packaging.

14. TRANSPORT INFORMATION

14.1 UNRTDG:

UN No.	:	N/A
Class	:	N/A
Pakaging group	:	N/A
Marine pollutant	:	N/A
Shipping Name	:	N/A

14.2 Marine Transport IMDG-Code:

UN No.	:	N/A
Class	:	N/A
Pakaging group	:	N/A
Marine pollutant	:	N/A
Shipping Name	:	N/A

14.3 Road Transport ADR:

UN No.	:	N/A
Class	:	N/A
Pakaging group	:	N/A
Marine pollutant	:	N/A
Shipping Name	:	N/A

14.4 Air Transport IATA-DGR:

UN No.	:	N/A
Class	:	N/A
Pakaging group	:	N/A
Marine pollutant	:	N/A
Shipping Name	:	N/A

15. REGULATORY INFORMATION

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

16. OTHER INFORMATION

16.1 National Fire Protection Association (U.S.A.)

Health	:	1
Flammability	:	1
Instability/Reactivity	:	1
Special	:	N/A

16.2 Reference

[1] IPCS: The International Chemical Safety Cards (ICSC) ,website: http://www.ilo.org/dyn/icsc/showcard.home

[2] IARC, website: http://www.iarc.fr/

[3] OECD: The Global Portal to Information on Chemical Substances, website:
http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en.

[4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple

[5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp

[6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/

[7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg

[8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/

[9] European Chemicals Agen-cy, http://echa.europa.eu/

16.3 Full text of other abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road;

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IMO: International Maritime Organization; ISHL: Industrial Safety and Health Law (Japan);

OSHA: United States Department of Labor: Occupational Safety and Health Administration;

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail;

UNRTDG: United Nations Recom-mendations on the Transport of Dangerous Goods;

MARPOL: International Convention for the Prevention of Pollution from Ships;

AICS: Australian Inventory of Chemical Substances;	ACGIH: American Conference of Governmental Industrial Hygienists;
AIHA: American Industrial Hygiene Association;	O: International Organisation for Standardization;
ASTM: American Society for the Testing of Materials;	KECI: Korea Existing Chemicals Inventory;
ATE: Acute toxicity estimate;	LC50: Lethal Concentration to 50 %;
CMR: Carcinogen, Mutagen or Reproductive Toxicant;	LD50: Lethal Dose to 50%(Median Lethal Dose);
CMR: Carcinogen, Mutagen or Reproductive Toxicant;	EC50: Effective Concentration 50%
DSL: Domestic Substances List (Canada);	IC50: Half maximal inhibitory concentration;
ECx: Concentration associated with x% response;	PICCS: Philippines Inventory of Chemicals and Chemical Substances;
ELx: Loading rate associated with x% response;	OECD: Organization for Economic Co-operation and Development;
EmS: Emergency Schedule;	n.o.s.: Not Otherwise Specified;
ENCS: Existing and New Chemical Substances (Japan);	NO(A)EC: No Observed (Adverse) Effect Concentration;
ErCx: Concentration associated with x% growth rate response;	NO(A)EL: No Observed (Adverse) Effect Level;
GLP: Good Laboratory Practice;	NZIoC: New Zealand Inventory of Chemicals;

IARC: International Agency for Research on Cancer;	OPPTS: Office of Chemical Safety and Pollution Prevention;
IATA: International Air Transport Association;	PBT: Persistent, Bioaccumulative and Toxic substance;
ICAO: International Civil Aviation Organization;	(Q)SAR: (Quantitative) Structure Activity Relationship;
IECSC: Inventory of Existing Chemical Substances in China;	SADT: Self-Accelerating Decomposition Temperature;
IMDG: International Maritime Dangerous Goods;	STEL: Short Term Exposure Limit;
NFPA: National Fire Protection Association	TCSI: Taiwan Chemical Substance Inventory;
UN: United Nations;	TSCA: Toxic Substances Control Act (United States);
TWA: Time-Weighted-Average;	vPvB: Very Persistent and Very Bioaccumulative.
PC-TWA: Permissible concentration-Time Weighted Average	PC-STEL: Pemissible concentration-Short Term Exposure Limit

16.4 Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, in-formation and belief at the date of its publication. The information is designed only as a guid-ance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, un-less specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.
This Safety Data Sheet (SDS) was prepared according to UN GHS (the 7th revised edition). The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product .

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