

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

SECTION 1: Identification

1.1 Product identifier

Trade name **MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B**

Product code(s) 44811B, 44814B, 44914B, 44916B

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Paint related material

1.3 Details of the supplier of the safety data sheet

P.O.R. Products
38 Portman Road
New Rochelle NY 10801
United States

Telephone: +1 914-636-0700
e-mail: support@porproducts.com
Website: www.porproducts.com

e-mail (competent person) support@porproducts.com

1.4 Emergency telephone number

Emergency information service 1-800-255-3924
ChemTel Inc.

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Section	Hazard class	Category	Hazard class and category	Hazard statement
A.4S	skin sensitization	1	Skin Sens. 1	H317
A.8R	specific target organ toxicity - single exposure (respiratory tract irritation)	3	STOT SE 3	H335

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

- Signal word warning

- Pictograms

GHS07



- Hazard statements

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

- Precautionary statements

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352	If on skin: Wash with plenty of water.
P304+P340	If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312	Call a poison center/doctor if you feel unwell.
P321	Specific treatment (see on this label).
P363	Wash contaminated clothing before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to industrial combustion plant.

- Hazardous ingredients for labelling

Homopolymer of Hexamethylene Diisocyanat,
Hexamethylene-1,6Diisocyanate

2.3 Other hazards

Hazards not otherwise classified

Contains isocyanates. May produce an allergic reaction.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS
Homopolymer of Hexamethylene Diisocyanat	CAS No 28182-81-2	75 - < 90	Acute Tox. 4 / H332 Skin Sens. 1 / H317 STOT SE 3 / H335
	CAS No 666723-27-9	10 - < 25	
N,N-Dimethylcyclohexylamine	CAS No 98-94-2	1 - < 5	Acute Tox. 3 / H301 Acute Tox. 3 / H311 Flam. Liq. 3 / H226
Hexamethylene-1,6Diisocyanate	CAS No 822-06-0	0.1 - < 1	Acute Tox. 4 / H302 Acute Tox. 1 / H330 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Resp. Sens. 1 / H334 Skin Sens. 1 / H317 STOT SE 3 / H335

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First-aid measures

4.1 Description of first-aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

There is no additional information.

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials" (Section 10).

7.3 Specific end use(s)

See section 16 for a general overview.

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
US	hexamethylene-diisocyanate	822-06-0	REL	0.005 (10 h)	0.035 (10 h)			0.02 (10 min)	0.14 (10 min)		NIOSH REL
US	hexamethylene-diisocyanate	822-06-0	TLV®	0.005							ACGIH® 2024
US	hexamethylene-diisocyanate (HDI)	822-06-0	PEL (CA)	0.005	0.034						Cal/ OSHA PEL

Notation

Ceiling-C
STEL

ceiling value is a limit value above which exposure should not occur
short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Biological limit values

Country	Name of agent	Parameter	Notation	Identifier	Value	Source
US	hexamethylene-diisocyanate	hexamethylenediamine	hydr, crea	BEI®	15 µg/g	ACGIH® 2024

Notation

crea
hydr

creatinine
hydrolysis

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	0.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	DNEL	1 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
N,N-Dimethylcyclohexylamine	98-94-2	DNEL	0.53 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
N,N-Dimethylcyclohexylamine	98-94-2	DNEL	8.3 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
N,N-Dimethylcyclohexylamine	98-94-2	DNEL	8.3 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
N,N-Dimethylcyclohexylamine	98-94-2	DNEL	0.6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

Relevant DNELs of components

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hexamethylene-1,6Diisocyanate	822-06-0	DNEL	0.035 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Hexamethylene-1,6Diisocyanate	822-06-0	DNEL	0.07 mg/m ³	human, inhalatory	worker (industry)	acute - local effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.127 mg/l	aquatic organisms	freshwater	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	0.013 mg/l	aquatic organisms	marine water	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	266,701 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	26,670 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	53,183 mg/kg	terrestrial organisms	soil	short-term (single instance)
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	PNEC	6.46 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	0.002 mg/l	aquatic organisms	freshwater	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	20.6 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	0.021 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
N,N-Dimethylcyclohexylamine	98-94-2	PNEC	0.003 mg/kg	terrestrial organisms	soil	short-term (single instance)
Hexamethylene-1,6Diisocyanate	822-06-0	PNEC	8.42 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	liquid
Color	not determined
Particle	not relevant (liquid)
Odor	characteristic

Other safety parameters

pH (value)	not determined
Melting point/freezing point	not determined
Initial boiling point and boiling range	162.3 °C at 1,013 hPa
Flash point	185 °C at 1,013 hPa
Evaporation rate	Not determined

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

Flammability (solid, gas)	not relevant, (fluid)
Vapor pressure	3.17 hPa at 21.5 °C
Density	not determined
Vapor density	this information is not available
Relative density	Information on this property is not available
Solubility(ies)	not determined

Partition coefficient

- n-octanol/water (log KOW)	this information is not available
Auto-ignition temperature	445 °C (auto-ignition temperature (liquids and gases))
Viscosity	not determined
Explosive properties	none
Oxidizing properties	none

9.2 Other information

VOC content	0.0 g/L
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SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin or if inhaled.

Acute toxicity estimate (ATE) of components			
Name of substance	CAS No	Exposure route	ATE
Homopolymer of Hexamethylene Diisocyanat	28182-81-2	inhalation: dust/mist	>1.5 mg/l/4h
N,N-Dimethylcyclohexylamine	98-94-2	oral	>272 mg/kg
N,N-Dimethylcyclohexylamine	98-94-2	dermal	380 mg/kg
Hexamethylene-1,6Diisocyanate	822-06-0	oral	959 mg/kg
Hexamethylene-1,6Diisocyanate	822-06-0	inhalation: vapor	0.124 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

May cause an allergic skin reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	not subject to transport regulations
14.2	UN proper shipping name	not relevant
14.3	Transport hazard class(es)	none
14.4	Packing group	not assigned
14.5	Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6	Special precautions for user	There is no additional information.



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

14.7 Transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road or rail (49 CFR US DOT) - Additional information

Not subject to transport regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)

all ingredients are listed (ACTIVE) or exempt from listing

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

Toxics Release Inventory: Specific Toxic Chemical Listings

Name of substance	CAS No	Remarks	Effective date
Hexamethylene-1,6Diisocyanate	822-06-0		1994-12-31

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

Name of substance	CAS No	Remarks	Statutory code	Final RQ pounds (Kg)
Hexamethylene-1,6Diisocyanate	822-06-0		3	100 (45,4)

Legend

3 "3" indicates that the source is section 112 of the Clean Air Act

Clean Air Act

none of the ingredients are listed



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

Name of substance	CAS No	Functionality	Authoritative Lists
Homopolymer of Hexamethylene Diisocyanat			OEHHA RELS
Hexamethylene-1,6Diisocyanate	822-06-0		CA TACs EC Annex VI Resp. Sens. - Cat. 1 IRIS Neurotoxicants OEHHA RELS

- Toxic or Hazardous Substance List (MA-TURA)

Name of substance	CAS No	DEP CODE	PBT / HHS / LHS	PBT / HHS Threshold	De Minimis Concentration Threshold
Hexamethylene-1,6Diisocyanate		1050			1.0 %

- Hazardous Substance List (NJ-RTK)

Name of substance	CAS No	Remarks	Classifications
Hexamethylene-1,6Diisocyanate	822-06-0		R1
N,N-Dimethylcyclohexylamine	98-94-2		CO F2

Legend

CO Corrosive
F2 Flammable - Second Degree
R1 Reactive - First Degree

- Hazardous Substance List (Chapter 323) (PA-RTK)

none of the ingredients are listed

- Hazardous Substance List (RI-RTK)

none of the ingredients are listed

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

none of the ingredients are listed

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

Category	Rating	Description
Chronic	/	none
Health	2	temporary or minor injury may occur
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive



Safety Data Sheet

acc. to 29 CFR 1910.1200 App D

MATTE CLEAR / 2K WB GLOSS CLEAR HARDENER-PART B

Version number: GHS 2.0
Replaces version of: 2022-03-28 (GHS 1)

Revision: 2024-06-04

Category	Rating	Description
Personal protection	-	

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	2	material that, under emergency conditions, can cause temporary incapacitation or residual injury
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

National inventories

Country	Inventory	Status
US	TSCA	all ingredients are listed (ACTIVE)

Legend

TSCA Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.