SAFETY DATA SHEET



Date of issue 5 January 2024

Version 1.01

Section 1. Identification		
Chemical name	: AMERCOAT 1202 BLACK RESIN	
GHS product identifier	: AMERCOAT 1202 BLACK RESIN	
Code	: 00472051	
Relevant identified uses of	f the substance or mixture and uses advised against	
Product use	Coating. Professional applications, Used by spraying.	
Supplier's details	: PPG Industries International Inc. Taiwan Branch. No.209, Hong Tzuenn Rd Ping Chen City, Taoyuan County, Taiwan Tel: 886 3 3663922 886 3 3751639 (Automotive OEM Coatings Products). Fax: 886 3 2182667	
Emergency telephone number	: North: +886-3-3663922 North : +886-911998320 South: +886-7-8718105 South : +886-932793707	

Section 2. Hazards identification

Classification of the substance or mixture	 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1 CARCINOGENICITY - Category 2 AQUATIC TOXICITY (ACUTE) - Category 2 AQUATIC TOXICITY (CHRONIC) - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 8.6%
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	 Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Toxic to aquatic life with long lasting effects.

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Section 2 Hazards identification

Section 2. Hazards	5	dentification
Precautionary statements		
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Avoid breathing vapour. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	:	Collect spillage. IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.
Storage	1	Store locked up.
Disposal	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	Contains a substance that may emit formaldehyde if stored beyond its shelf life and/ or during cure at curing temperatures greater than 60C/140F.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture		
Hazardous ingredients	Concentration %	CAS number
bis-[4-(2,3-epoxipropoxi)phenyl]propane 2,2-bis(acryloyloxymethyl)butyl acrylate Cashew, nutshell liq., 2-hydroxyethyl ethers Formaldehyde, polymer with 1,3-dimethylbenzene [3-(2,3-epoxypropoxy)propyl]trimethoxysilane	50 - 100 5 - <10 5 - <10 1 - <3 1 - <3	1675-54-3 15625-89-5 232268-65-4 26139-75-3 2530-83-8
危险成分	浓度 %	CAS号码
2,2'-[(1-甲基亚乙基)双(4,1-亚苯基 甲醛)]双环氧 乙烷 三甲基丙烷三酰基化物 Cashew, nutshell liq., 2-hydroxyethyl ethers 甲醛与 1,3-二甲基苯酚的聚合物 3-(2,3-环氧丙氧)丙基三甲氧基硅烷	50 - 100 5 - <10 5 - <10 1 - <3 1 - <3	1675-54-3 15625-89-5 232268-65-4 26139-75-3 2530-83-8

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

	water or use recognised skin cleanser. Do NOT use solvents or thinners.
Skin contact	Keep person warm and at rest. Do NOT induce vomiting. Remove contaminated clothing and shoes. Wash skin thoroughly with soap and
Ingestion	trained personnel. If swallowed, seek medical advice immediately and show the container or label.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

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Section 4. First aid measures

Eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
 In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.

Most important symptoms/effects, acute and delayed

Potential acute healt	h effects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable	: Use an extinguishing agent suitable for the surrounding fire.
Not suitable	: None known.
Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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Section 5. Firefighting measures

Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon oxides metal oxide/oxides Formaldehyde.
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	 Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate entering. mist. Pro	shall be taken involving any personal risk or without suitable training. surrounding areas. Keep unnecessary and unprotected personnel from Do not touch or walk through spilt material. Avoid breathing vapour or vide adequate ventilation. Wear appropriate respirator when ventilation is e. Put on appropriate personal protective equipment.	
Environmental precautions	and sewe	persal of spilt material and runoff and contact with soil, waterways, drains rs. Inform the relevant authorities if the product has caused environmental sewers, waterways, soil or air). Water polluting material. May be harmful ironment if released in large quantities. Collect spillage.	
Methods and material for containment and cleaning up			
Large spill	from upw areas. W Contain a earth, ver according disposal o as the spi	if without risk. Move containers from spill area. Approach the release nd. Prevent entry into sewers, water courses, basements or confined ash spillages into an effluent treatment plant or proceed as follows. nd collect spillage with non-combustible, absorbent material e.g. sand, miculite or diatomaceous earth and place in container for disposal to local regulations (see Section 13). Dispose of via a licensed waste contractor. Contaminated absorbent material may pose the same hazard It product. Note: see Section 1 for emergency contact information and 3 for waste disposal.	
Small spill	up if wate material a	if without risk. Move containers from spill area. Dilute with water and mop r-soluble. Alternatively, or if water-insoluble, absorb with an inert dry nd place in an appropriate waste disposal container. Dispose of via a waste disposal contractor.	

Section 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Control parameters

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Section 7. Handling and storage

Conditions for safe storage,	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in
including any	accordance with local regulations. Store in original container protected from direct
incompatibilities	sunlight in a dry, cool and well-ventilated area, away from incompatible materials
	(see Section 10) and food and drink. Store locked up. Keep container tightly closed
	and sealed until ready for use. Containers that have been opened must be carefully
	resealed and kept upright to prevent leakage. Do not store in unlabelled containers.
	Use appropriate containment to avoid environmental contamination. See Section 10
	for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Occupational exposure lim	its	
None.		
Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection measu	res	
Respiratory protection	:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves Skin protection		polyethylene butyl rubber Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Eye protection	1	Chemical splash goggles.
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

Appearance Physical state

:	Liquid.
1.1	Black.

Colour	:	Black.	
Odour	:	Characteristic.	
Odour threshold	:	Not available.	
рН	:	Not applicable.	
Melting point	:	Not available.	
Boiling point	:	>37.78°C (>100°F)	
Flash point	:	Closed cup: 100°C (212°F)
Flammability (solid, gas)	:	Not available.	
Burning time	:	Not applicable.	
Burning rate	:	Not applicable.	
Decomposition temperature	:	Not available.	
Evaporation rate	:	Not available.	
Lower and upper explosive (flammable) limits	:	Not available.	
Vapour pressure	:	Not available.	
Vapour density	:	Not available.	
Relative density	:	1.27	
Solubility(ies)		Media	Result
oordonity(ies)	1	cold water	Not soluble
Partition coefficient: n- octanol/water	:	Not applicable.	
Auto-ignition temperature	:	Not available.	
Viscosity	:	Kinematic (40°C): >21 mm	² /s

Section 10. Stability and reactivity

Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides Formaldehyde. metal oxide/oxides
Hazardous polymerisation	: Under normal conditions of storage and use, hazardous polymerisation will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
2,2-bis(acryloyloxymethyl) butyl acrylate	LD50 Dermal	Rabbit	5170 mg/kg	-
	LD50 Oral	Rat	5.19 g/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LC50 Inhalation Dusts and mists	Rat	>5300 mg/m ³	4 hours
-	LD50 Dermal LD50 Oral	Rabbit Rat	4.3 g/kg 7.01 g/kg	- -

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the conjunctivae	Rabbit	0.4	24 hours	-
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-
2,2-bis(acryloyloxymethyl) butyl acrylate	Skin - Irritant	Rabbit	-	-	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	Eyes - Cornea opacity	Rabbit	11.8	1 minutes	24 hours

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane		Mouse	Sensitising
2,2-bis(acryloyloxymethyl) butyl acrylate	skin	Rabbit	Sensitising

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

Name		Category	Route of exposure	Target organs
Formaldehyde, polymer with	Category 3	-	Respiratory tract irritation	
Specific target organ toxici	ty (repeated exposure)	1		
Not available.				
Aspiration hazard				
Not available.				
nformation on likely routes of exposure	: Not available.			
Potential acute health effects	2			
Inhalation	: No known significar	nt effects or critical haz	zards.	
Ingestion	: No known significar	nt effects or critical haz	zards.	
Skin contact	: Causes skin irritatio	on. May cause an alle	rgic skin reaction.	
Eye contact	: Causes serious eye	e irritation.		
Symptoms related to the phy	vsical, chemical and to	xicological characte	<u>ristics</u>	
Eyes	: Adverse symptoms pain or irritation watering redness	may include the follov	ving:	
Inhalation	: No specific data.			
Skin	: Adverse symptoms irritation redness	may include the follov	ving:	
Ingestion	: No specific data.			
Delayed and immediate effect	ts as well as chronic o	effects from short an	d long-term expo	sure
Short term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			
Long term exposure				
Potential immediate effects	: Not available.			
Potential delayed effects	: Not available.			

Section 11. Toxicological information

Potential chronic health effects

Not available.

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Eye contact	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
MERCOAT 1202 BLACK RESIN 2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)]bisoxirane	N/A 15000	13322.1 23000	N/A N/A	N/A N/A	N/A N/A
2,2-bis(acryloyloxymethyl)butyl acrylate Cashew, nutshell liq., 2-hydroxyethyl ethers [3-(2,3-epoxypropoxy)propyl]trimethoxysilane	5190 N/A 7010	5170 1100 4300	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A

Other information

Sanding and grinding dusts may be harmful if inhaled. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact.

Section 12. Ecological information

Toxicity

Section 12. Ecological information

Product/ingredient name	Result	Species	Exposure
2,2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia magna</i>	48 hours
2,2-bis(acryloyloxymethyl) butyl acrylate	Chronic NOEC 0.3 mg/l Acute LC50 0.87 mg/l	Daphnia Fish	21 days 96 hours
	Acute LC50 324 mg/l	Daphnia	48 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
₹2'-[(1-methylethylidene)bis (4,1-phenyleneoxymethylene)] bisoxirane	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2-bis(acryloyloxymethyl) butyl acrylate	0.67	-	Low

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	UN3082	UN3082	UN3082
UN proper shipping name			ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, 2,2-bis (acryloyloxymethyl)butyl acrylate)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, 2,2-bis (acryloyloxymethyl)butyl acrylate)	(bis-[4-(2,3-epoxipropoxi) phenyl]propane, 2,2-bis (acryloyloxymethyl)butyl acrylate)
Transport hazard class(es)	9	9	9
Packing group	III	III	II
Environmental hazards	Yes.	Yes.	Yes.
Marine pollutant substances	Not applicable.	(bis-[4-(2,3-epoxipropoxi) phenyl]propane)	Not applicable.

Additional information

UN	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
IMDG	This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	
ΙΑΤΑ	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.	
Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.		

Transport in bulk according	:	Not applicable.
to IMO instruments		

Section 15. Regulatory information

TCCSCA List of toxic chemic	<u>cals</u>
Not applicable.	
TCCSCA List of concerned c Not applicable.	hemicals
List of chemicals for which manufacturing or handling is defined as "work specially hazardous to health"	: This product contains substances "Specially hazardous to health": xylene, toluene, methanol, 1,4-dioxane.

Section 15. Regulatory information

Regulations Applicable:

- 1. Rules for Occupational Safety and Health Facilities
- 2. Regulations for the Labeling and Hazard Communication of Hazardous Chemicals
- 3. Prevention Rules for Organic Solvent Intoxication/Poisoning.
- 4. Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace
- 5. Traffic Safety Regulation of Road.

Section 16. Other information

References	Not available.		
Organisation that			
prepared the SDS	Address / Telephone : No.209, Hong Tzuenn Rd Ping Chen City, Taoyuan County, Taiwan North: +886-3-3663922 North : +886-911998320 South: +886-7-8718105 South : +886-932793707		
Person who	Title:	Name: (Signature):	
prepared the SDS	Technical manager	Tony Cheng	
	Technical manager	Daniel Wu	
Date of issue	5 January 2024		
Date of previous issue	ssue : 12/4/2023		
Version	: 1.01		
Indicates information	n that has changed from previously issued v	version.	
Remarks	: New SDS layout incorporating TW Table 2017		
Key to abbreviations	 New SDS layout incorporating TW Table 2017 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations 		

<u>Disclaimer</u>

Product name AMERCOAT 1202 BLACK RESIN

Section 16. Other information

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by PPG, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.