# SAFETY DATA SHEET



Date of issue 14 October 2021

Version 4.01

### **Section 1. Identification**

Chemical name : SIGMARINE 48 BLACK 8000

GHS product identifier : SIGMARINE 48 BLACK 8000

Code : 40048-C8000/20L

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

Product use : Coating.

Industrial 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

: FLAMMABLE LIQUIDS - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

AQUATIC TOXICITY (CHRONIC) - Category 2

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 42.5%

**GHS label elements** 

Hazard pictograms :









Signal word : Danger

**Hazard statements**: Flammable liquid and vapor.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure. (central

nervous system (CNS))

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

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### Section 2. Hazards identification

Prevention : Wear protective gloves, protective clothing and eye or face protection. Keep away

from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do

not eat, drink or smoke when using this product. Wash thoroughly after handling.

: Collect spillage. Get medical advice or attention if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Other hazards which do not result in classification

Response

Other hazards which do not : Prolonged or repeated contact may dry skin and cause irritation.

# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Hazardous ingredients	Concentration %	CAS number
Maphtha (petroleum), hydrodesulfurized heavy calcium carbonate Talc, not containing asbestiform fibers 2-ethylhexanoic acid, zirconium salt Solvent naphtha (petroleum), light aromatic 2-ethylhexanoic acid, cobalt salt	25 - <50 3 - <5 1 - <3 1 - <3 0.1 - <0.3	64742-82-1 471-34-1 14807-96-6 22464-99-9 64742-95-6 13586-82-8

Hazardous ingredients	Concentration %	CAS number
Naphtha (petroleum), hydrodesulfurized heavy	25 - <50	64742-82-1
calcium carbonate	3 - <5	471-34-1
Talc , not containing asbestiform fibres	1 - <3	14807-96-6
2-ethylhexanoic acid, zirconium salt	1 - <3	22464-99-9
Solvent naphtha (petroleum), light aromatic	1 - <3	64742-95-6
2-ethylhexanoic acid, cobalt salt	0.1 - < 0.3	13586-82-8

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.

SUB codes represent substances without registered CAS Numbers.

### Section 4. First aid measures

### **Description of necessary first aid measures**

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

trained personnel.

Ingestion : If swallowed, seek medical advice immediately and show this container or label.
 Keep person warm and at rest. Do NOT induce vomiting.

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### Section 4. First aid measures

**Skin contact**: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

**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.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact**: No known significant effects or critical hazards.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

Ingestion : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Eye contact : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

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. If it

is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person

providing aid to give mouth-to-mouth resuscitation.

#### See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### **Extinguishing media**

**Suitable** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Not suitable : Do not use water jet.

Specific hazards arising

from the chemical

: Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. 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. Fire-fighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon oxides metal oxide/oxides

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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 : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

#### Methods and materials for containment and cleaning up

Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

## Section 7. Handling and storage

Precautions for safe handling

Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not

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## Section 7. Handling and storage

reuse container.

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Conditions for safe storage, including any incompatibilities

: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits
ralc (Mg3H2(SiO3)4)	TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018).  STEL: 4 mg/m³ 15 minutes.  TWA: 2 mg/m³ 8 hours.
2-ethylhexanoic acid, zirconium salt	TWA: 2 mg/m 6 flours.  TW Minstry of Labor, labor permissible workplace exposure standards, allowable concentration (Taiwan, 3/2018).  STEL: 10 mg/m³, (as Zr) 15 minutes.  TWA: 5 mg/m³, (as Zr) 8 hours.

#### **Appropriate engineering** controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

#### **Individual protection measures**

**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.

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### Section 8. Exposure controls/personal protection

**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 : For prolonged or repeated handling, use the following type of gloves:

Recommended: natural rubber (latex), nitrile rubber

**Skin protection** : 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** : Safety glasses with side shields.

**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. 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.

Color : Black.

Odor : Aromatic.

Odor threshold : Not available.

pH : Not applicable.

Melting point : Not available.

**Boiling point** : >37.78°C (>100°F)

Flash point : Closed cup: 38.5°C (101.3°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 : Not available.

(flammable) limits

Vapor pressure : Not available.
Vapor density : Not available.

Relative density : 0.96 Bulk Density (g/cm³) : 1.15

**Solubility** : Insoluble in the following materials: cold water.

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### Section 9. Physical and chemical properties

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** 

: Not available.

**Viscosity** 

: Kinematic (40°C): >21 mm<sup>2</sup>/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: oxidizing agents, strong alkalis, strong acids.

**Hazardous decomposition** products

: Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides

**Hazardous polymerization** 

: Under normal conditions of storage and use, hazardous polymerization will not occur.

## **Section 11. Toxicological information**

### Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Naphtha (petroleum), hydrodesulfurized heavy	LD50 Oral	Rat	>5000 mg/kg	-
calcium carbonate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	6450 mg/kg	-
2-ethylhexanoic acid, zirconium salt	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	>5 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-

#### **Irritation/Corrosion**

Not available.

#### **Sensitization**

Not available.

### Mutagenicity

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

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## **Section 11. Toxicological information**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Maphtha (petroleum), hydrodesulfurized heavy	Category 3	-	Narcotic effects
Talc (Mg3H2(SiO3)4)	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Name	3 3 3	Route of exposure	Target organs
Naphtha (petroleum), hydrodesulfurized heavy	Category 1		central nervous system (CNS)

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness

Ingestion : Can cause central nervous system (CNS) depression.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Eye contact** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eyes : No specific data.

**Inhalation** : Adverse symptoms may include the following:

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness

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### Section 11. Toxicological information

**Skin** : Adverse symptoms may include the following:

irritation dryness cracking

Ingestion : No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Causes damage to organs through prolonged or repeated exposure. Prolonged or

repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Carcinogenicity
 No known significant effects or critical hazards.
 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
 No known significant effects or critical hazards.
 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 (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMARINE 48 BLACK 8000 calcium carbonate Talc (Mg3H2(SiO3)4) Solvent naphtha (petroleum), light aromatic 2-ethylhexanoic acid, cobalt salt	N/A	5680.6	N/A	76.7	N/A
	6450	2500	N/A	N/A	N/A
	N/A	N/A	N/A	11	N/A
	8400	3480	N/A	N/A	N/A
	500	N/A	N/A	N/A	N/A

Other information :

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## **Section 11. Toxicological information**

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

## **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
calcium carbonate 2-ethylhexanoic acid, zirconium salt	Acute EC10 >14 mg/l Acute LC50 >100 mg/l	Algae Fish	72 hours 96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Not available.

#### **Mobility in soil**

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 minimized 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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# **Section 14. Transport information**

	UN	IMDG	IATA
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	Yes. The environmentally hazardous substance mark is not required.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light aromatic)	Not applicable.

#### **Additional information**

UN : None identified.

**IMDG** : The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.

: The environmentally hazardous substance mark may appear if required by other transportation **IATA** 

regulations.

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

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, methanol, toluene, butanone, acetone.

#### 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.

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### Section 16. Other information

References	Not availab	Not available.			
Organization that	Name: PPG Industries International Inc., Taiwan Branch				
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 prepared the SDS	Title: Technical manager Technical manager Technical manager Daniel Wu				
Date of issue	14 Octobe	r 2021		1	

**Date of previous issue** : 5/19/2021 **Version** : 4.01

✓ Indicates information that has changed from previously issued version.

Remarks : New SDS layout incorporating TW Table 2017

**Key to abbreviations** : 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 Air Transport Association IMDG = 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

#### **Disclaimer**

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.

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