

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 1 of 18
Print Date 07/25/2026

SAFETY DATA SHEET

BROWN 174C PP F**Section 1. Identification**

GHS product identifier : BROWN 174C PP F
Chemical name : Mixture
CAS number : Mixture
Other means of identification : CC10433182
Product type : solid

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

Product use : Industrial applications.

Supplier's details : **AVIENT CORPORATION**
33587 Walker Road, Avon Lake, OH 44012

1 (440) 930-1000 or 1 (844) 4AVIENT

Emergency telephone number (with hours of operation) : CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

Section 2. Hazards identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture : Not classified.

GHS label elements

Signal word : No signal word.
Hazard statements : No known significant effects or critical hazards.

Precautionary statements

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 2 of 18
Print Date 07/25/2026

Disposal : Not applicable.
Hazards not otherwise classified : None known.
Hazards identified when used : No known significant effects or critical hazards.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture
Chemical name : BROWN 174C PP F
Other means of identification : BROWN 174C PP F

Ingredient name	Synonyms	%	Identifiers
Iron oxide	diiron trioxide	>= 15 - <= 40	CAS: 1309-37-1
Silica	silicon dioxide	>= 3 - <= 7	CAS: 7631-86-9
Limestone	Limestone	>= 1 - <= 5	CAS: 1317-65-3
Benzoic acid, sodium salt (1:1)	sodium benzoate	>= 1 - <= 5	CAS: 532-32-1
C.I. Pigment Brown 24	chrome antimony titanium buff rutile	>= 0.5 - <= 1.5	CAS: 68186-90-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 3 of 18
Print Date 07/25/2026

drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed**Potential acute health effects**

Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	No specific data.
Inhalation	:	No specific data.
Skin contact	:	No specific data.
Ingestion	:	No specific data.

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

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures
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Extinguishing media

Suitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO ₂ .
Unsuitable extinguishing media	:	None known.

Specific hazards arising from the chemical : No specific fire or explosion hazard.

Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide, nitrogen oxides, metal oxide/oxides

Special protective actions for fire- : Promptly isolate the scene by removing all persons from the vicinity of

SAFETY DATA SHEET

BROWN 174C PP F

Version Number 1.0
Revision Date 07/24/2026

Page 4 of 18
Print Date 07/25/2026

- fighters** 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

- For non-emergency personnel** : 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. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- 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).

Methods and materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 5 of 18
Print Date 07/25/2026

**Conditions for safe storage,
including any incompatibilities**

- : Store in accordance with local regulations. 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. 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.

Section 8. Exposure controls/personal protection**Control parameters****Occupational exposure limits**

Ingredient name	Exposure limits
Iron oxide	CAL OSHA PEL (2018-05-16). [iron oxide fume] TWA 8 hours: 5 mg/m ³ CAL OSHA PEL (2018-05-16). [rouge] TWA 8 hours: 10 mg/m ³ Form: Total dust TWA 8 hours: 5 mg/m ³ Form: Respirable fraction ACGIH TLV (2005-12-09). [Iron oxide] A4. TWA 8 hours: 5 mg/m ³ Form: Respirable fraction NIOSH REL (2010-09-01). [iron oxide dust and fume] TWA 10 hours: 5 mg/m ³ (as Fe) Form: Dust and fumes OSHA PEL 1989 (1989-03-01). [Iron oxide dust and fume (as Fe)] STEL 15 minutes: 10 ppm (as Fe) Form: total particulates OSHA PEL 1989 (1989-03-01). [Rouge] TWA 8 hours: 5 mg/m ³ Form: Respirable fraction TWA 8 hours: 10 mg/m ³ Form: Total dust OSHA PEL (1993-06-30). [Rouge] TWA 8 hours: 15 mg/m ³ Form: Total dust TWA 8 hours: 5 mg/m ³ Form: Respirable fraction OSHA PEL (1993-06-30). [Iron oxide fume] TWA 8 hours: 10 mg/m ³ Form: Fume
Silica	NIOSH REL (2010-09-01). [SILICA, AMORPHOUS] See Appendix A - NIOSH Potential Occupational Carcinogen. TWA 10 hours: 6 mg/m ³
Limestone	CAL OSHA PEL (2018-05-16). [limestone] TWA 8 hours: 10 mg/m ³ Form: Total dust TWA 8 hours: 5 mg/m ³ Form: Respirable fraction OSHA PEL 1989 (1989-03-01). [Calcium carbonate]

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0

Page 6 of 18

Revision Date 07/24/2026

Print Date 07/25/2026

	TWA 8 hours: 5 mg/m ³ Form: Respirable fraction TWA 8 hours: 15 mg/m ³ Form: Total dust OSHA PEL 1989 (1989-03-01). [Limestone] TWA 8 hours: 5 mg/m ³ Form: Respirable fraction TWA 8 hours: 15 mg/m ³ Form: Total dust OSHA PEL 1989 (1989-03-01). [Marble] TWA 8 hours: 5 mg/m ³ Form: Respirable fraction TWA 8 hours: 15 mg/m ³ Form: Total dust OSHA PEL (1993-06-30). [Calcium Carbonate] TWA 8 hours: 5 mg/m ³ Form: Respirable fraction TWA 8 hours: 15 mg/m ³ Form: Total dust NIOSH REL (2015-02-13). [calcium carbonate] TWA 10 hours: 10 mg/m ³ Form: Total TWA 10 hours: 5 mg/m ³ Form: Respirable fraction
Benzoic acid, sodium salt (1:1)	ACGIH TLV (2022-01-06). [sodium benzoate as benzoate] A5. Absorbed through skin. TWA 8 hours: 2.5 mg/m ³ (Calculated as benzoate) Form: Inhalable fraction
C.I. Pigment Brown 24	OSHA PEL (1993-06-30). [Antimony and compounds (as Sb)] TWA 8 hours: 0.5 mg/m ³ (as Sb) OSHA PEL (1993-06-30). [Chromium (III) compounds (as Cr)] TWA 8 hours: 0.5 mg/m ³ (as Cr) NIOSH REL (2010-09-01). [chromium (III) compounds as Cr] TWA 8 hours: 0.5 mg/m ³ (as Cr) NIOSH REL (2010-09-01). [antimony] TWA 10 hours: 0.5 mg/m ³ CAL OSHA PEL (2018-05-16). [antimony and compounds as Sb] TWA 8 hours: 0.5 mg/m ³ (as Sb) CAL OSHA PEL (2018-05-16). [chromium (iii) compounds as Cr] TWA 8 hours: 0.5 mg/m ³ (as Cr) OSHA PEL 1989 (1989-03-01). [Antimony and compounds (as Sb)] TWA 8 hours: 0.5 mg/m ³ (as Sb) OSHA PEL 1989 (1989-03-01). [Chromium (III) compounds (as Cr)] TWA 8 hours: 0.5 mg/m ³ (as Cr) ACGIH TLV (1994-09-01). [Antimony and compounds as Sb] TWA 8 hours: 0.5 mg/m ³ (as Sb) ACGIH TLV (2018-03-20). [inorganic chromium III compounds as Cr] A4. TWA 8 hours: 0.003 mg/m ³ (as Cr) Form: Inhalable fraction

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 7 of 18
Print Date 07/25/2026

Biological exposure indices

No exposure indices known.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

- 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.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin 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.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other 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.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 8 of 18
Print Date 07/25/2026

Physical state	:	solid [Pellets.]
Color	:	BROWN
Odor	:	Faint odor.
Odor threshold	:	Not available.
pH	:	Not available.
Melting point/freezing point	:	Not available.
Boiling point or initial boiling point and boiling range	:	Not available.
Flash point	:	Not applicable.
Evaporation rate	:	Not available.
Flammability	:	Not available.
Lower and upper explosion limit/flammability limit	:	Lower: Not applicable. Upper: Not applicable.
Vapor pressure	:	Not available.
Relative vapor density	:	Not applicable.
Relative density	:	Not available.
Solubility in water	:	insoluble in water.
Partition coefficient: n-octanol/water	:	Not applicable.
Auto-ignition temperature	:	Not applicable.
Decomposition temperature	:	Not available.
Viscosity	:	Dynamic : Not available. Kinematic : Not available.

Particle characteristics

Median particle size	:	Not available.
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Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 9 of 18
Print Date 07/25/2026

not occur.

Conditions to avoid : Keep away from extreme heat and oxidizing agents.

Incompatible materials : Keep away from strong acids. Oxidizer.

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information**Information on toxicological effects****Acute toxicity**

Product/ingredient name	Result
Benzoic acid, sodium salt (1:1)	Rat - Oral - LD50 4,070 mg/kg

Conclusion/Summary : Mixture.Not fully tested.

Skin corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Serious eye damage/eye irritation

Product/ingredient name	Result
Silica	Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure</u> : 24 hrs

Conclusion/Summary : Mixture.Not fully tested.

Respiratory corrosion/irritation

Conclusion/Summary : Mixture.Not fully tested.

Respiratory or skin sensitization

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 10 of 18
Print Date 07/25/2026

Skin

Conclusion/Summary : Mixture.Not fully tested.

Respiratory

Conclusion/Summary : Mixture.Not fully tested.

Germ cell mutagenicity

Conclusion/Summary : Mixture.Not fully tested.

Carcinogenicity

Conclusion/Summary : Mixture.Not fully tested.

Classification

Product/ingredient name	OSHA	IARC	NTP
Iron oxide	-	3	-
Silica	-	3	-
Benzoic acid, sodium salt (1:1)	-	-	-
C.I. Pigment Brown 24	-	3	-

Reproductive toxicity

Conclusion/Summary : Mixture.Not fully tested.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 11 of 18
Print Date 07/25/2026

Not available.

Potential acute health effects

Eye contact : No known significant effects or critical hazards.
Inhalation : No known significant effects or critical hazards.
Skin contact : No known significant effects or critical hazards.
Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.
Inhalation : No specific data.
Skin contact : No specific data.
Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure**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.

Potential chronic health effects

Not available.

Conclusion/Summary : Mixture. Not fully tested.

General : No known significant effects or critical hazards.
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.

Numerical measures of toxicity**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
Benzoic acid, sodium salt	4070 mg/kg	N/A	N/A	N/A	N/A

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 12 of 18
Print Date 07/25/2026

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Section 12. Ecological information**Toxicity**

Product/ingredient name	Result
BROWN 174C PP F	Remarks: Chemicals are not readily available as they are bound within the polymer matrix.
Benzoic acid, sodium salt (1:1)	Acute LC50 Fresh water Fish - <i>Pimephales promelas</i> 484 Mg/l [96 h]

Conclusion/Summary : Not available.

Persistence and degradability

Not available.

Conclusion/Summary : Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Benzoic acid, sodium salt (1:1)	-2.27	-	Low

Mobility in soil

Soil/Water partition coefficient : Not available.
Mobility : Chemicals are not readily available as they are bound within the polymer matrix.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0

Revision Date 07/24/2026

Page 13 of 18

Print Date 07/25/2026

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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information
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U.S.DOT 49CFR
Ground/Air/Water

: Not regulated for transportation.

IATA

: Not classified as dangerous goods under transport regulations.

IMDG

: Not classified as dangerous goods under transport regulations.

Section 15. Regulatory information

U.S. Federal regulations

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

TSCA 8(a) - Preliminary assessment report (PAIR): Tetrahydrofuran;

TSCA 12(b) - Chemical export notification

Clean Air Act Section 112(b) : Listed

Hazardous Air Pollutants (HAPs)Clean Air Act Section 602 Class I
Substances : Not listedClean Air Act Section 602 Class
II Substances : Not listedDEA List I Chemicals (Precursor
Chemicals) : Not listed

DEA List II Chemicals (Essential : Not listed

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0
Revision Date 07/24/2026

Page 14 of 18
Print Date 07/25/2026

Chemicals)**SARA 302/304****Composition/information on ingredients**

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : Not applicable.

Composition/information on ingredients

No products were found.

Name	%	Classification
Silica	>= 3 - <= 7	EYE IRRITATION - Category 2B

SARA 313**Form R - Reporting requirements**

Product name	CAS number	%
C.I. Pigment Brown 24	68186-90-3	>= 0.5 - <= 1.5

Supplier notification

Product name	CAS number	%
C.I. Pigment Brown 24	68186-90-3	>= 0.5 - <= 1.5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed:
Iron oxide
Silica
Limestone

New York : None of the components are listed.

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0

Revision Date 07/24/2026

Page 15 of 18

Print Date 07/25/2026

New Jersey : The following components are listed:
 IRON OXIDE
 CALCIUM CARBONATE
 ANTIMONY compoundsCHROMIUM
 COMPOUNDSCHROMIUM III COMPOUNDS

Pennsylvania : The following components are listed:
 IRON OXIDE
 SILICA
 LIMESTONE
 ANTIMONY COMPOUNDSCHROMIUM COMPOUNDS

California Prop. 65

 **WARNING:** This product can expose you to, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Titanium dioxide	-	-

International regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals****Chemical Weapons Convention List Schedule I Chemicals**

None of the components are listed.

Chemical Weapons Convention List Schedule II Chemicals

None of the components are listed.

Chemical Weapons Convention List Schedule III Chemicals

None of the components are listed.

Montreal Protocol

None of the components are listed.

Stockholm Convention on Persistent Organic Pollutants**Annex A - Elimination - Production**

None of the components are listed.

Annex A - Elimination - Use

SAFETY DATA SHEET

BROWN 174C PP F

Version Number 1.0

Revision Date 07/24/2026

Page 16 of 18

Print Date 07/25/2026

None of the components are listed.

Annex B - Restriction - Production

None of the components are listed.

Annex B - Restriction - Use

None of the components are listed.

Annex C - Unintentional - Production

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Rotterdam Convention on Prior Informed Consent (PIC) - Industrial

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) - Pesticide

None of the components are listed.

Rotterdam Convention on Prior Informed Consent (PIC) -Severely hazardous pesticide

None of the components are listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Heavy metals - Annex 1

None of the components are listed.

POPs - Annex 1 - Production

None of the components are listed.

POPs - Annex 1 - Use

None of the components are listed.

POPs - Annex 2

None of the components are listed.

POPs - Annex 3

None of the components are listed.

Inventory list

Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed in DSL but all such components are listed in NDSL.
China	:	All components are listed or exempted.

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0

Revision Date 07/24/2026

Page 17 of 18

Print Date 07/25/2026

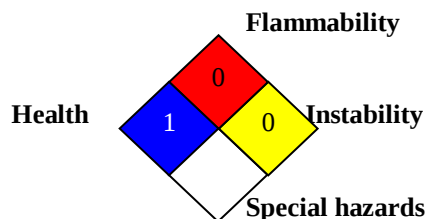
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

Section 16. Other information**Hazardous Material Information System (U.S.A.)**

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)**Procedure used to derive the classification**

Not classified.

History

SAFETY DATA SHEET**BROWN 174C PP F**

Version Number 1.0

Revision Date 07/24/2026

Page 18 of 18

Print Date 07/25/2026

Date of printing : 07/25/2026
Date of issue/**Date of revision** : 07/24/2026
Date of previous issue : 00/00/0000
Version : 1.0
Prepared by : EHS_BATCH
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
DOT = Department of Transportation
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
IMO = International Maritime Organization
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)
N/A = Not available
SGG = Segregation Group
TDG = Transportation of Dangerous Goods
UN = United Nations
References : Not available.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.