SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
SS586: 2008 (2014)

Issuing Date 02-Dec-2020 **Revision Date** 04-Dec-2023 **Revision Number** 2.6

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product Name PP Homopolymer

Other means of identification

Product Code(s) 5E16S, Amppleo 1025MA, BH-50, CP1000A, CP1200B, CP250H, CP350WV, CP360H, D022D2, D036W6, D040A, D080T, D115A, D130C, D180A2, D180M, D218.00, DH362.01, DH383.01, DH789.01, F006EC2, F008F, F013M, F020HC, F030HC, F080HC, F1000HC, F1000HC2, F165HC, F180A, F2700HC, F350HC, F350HC2, FF030F2, FF035C, FP650WV, FPT300F, FPT350WV3, FT120W2, FT120WB2, FT120WV, FT140WV, FT200WV, FT200WV2, GH12, GH12V, GH20, GH20V, GH35, GH4, H 103, H 105 Maxio, H 107, H 117, H 118, H 125, H130, H 155, H 201, H 202HC Maxio, H 203, H 214, H 216, H 301, H 401, H 501HC, H 502HC, H 503, H 503HS, H 504XP, H 603, H 604, H 605, H 606, H 611, H 614, H357-09RSB, H502-25RG, H521, H7058-25R, H734-52RNA, H734-52RNA2, HEM350B, HP 427J, HP 500D, HP500P, HP 502H, HP 523J, HP 550R, HP 648S, HSP165G, HSP165LG, HSP250NA, INSPIRE 215, INSPIRE 252, INSPIRE™ 6021N, INSPIRE™ 6022N, INSPIRE™ 6023N, INSPIRE™ 6023PN, INSPIRE™ 6025, INSPIRE™ 6025N, JE 6190, KM 6150HC Maxio, LGF7600, LGF7600 OC, LGF7900, PD 943XP, PF 260GQ, PF225GQ, PF33, PF350GQ, PG 480, PG35L, PG480, PG80Q, PH0130, PH 0950, PH 0952, PM25, PM25HN, PM47N, PROXESS H33, PT400NA, Widespec, ZS-751

Synonyms 1-Propene, Homopolymer

Recommended use of the chemical and restrictions on use

Recommended use Polymer preparations and compounds

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier
Braskem S.A. Singapore Branch
One Temasek Avenue
Millenia Tower #29-02
Singapore 039192
TEL: +65 6671- 0431

For further information, please contact

Emergency telephone number

Emergency telephone CHEMTREC Singapore: +(65)-31581349 / 800-101-2201

SECTION 2: Hazards identification

GHS Classification

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS): SS586: 2008 (2014)

Label elements

Signal word
Not classified

Hazard statements
Not classified

Other hazards which do not result in classification
Special danger of slipping by leaking/spilling product
Electrostatic charges may be generated during handling
If small particles are generated during processing or handling, this product may form combustible dust concentrations in air

SECTION 3: Composition/information on ingredients

Substance

Not applicable

Mixture

The product contains no substances which at their given concentration, are considered to be hazardous to health

Common name Polypropylene

Synonyms 1-Propene, Homopolymer

Chemical name	EC No	CAS No	Weight-%
Polypropylene	-	9003-07-0	98-100

SECTION 4: First aid measures

Description of first aid measures

Inhalation Remove to fresh air. Medical aid is necessary if symptoms appear to be an obvious consequence of inhalation.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin contact Wash skin with soap and water. Get medical attention if irritation develops and persists. After contact with molten product, cool skin area rapidly with cold water. Removal of solidified molten material from skin requires medical assistance.

Ingestion Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a doctor if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Product dust may be irritating to eyes, skin and respiratory system.

For emergency responders

Self-protection of the first aider No information available.

Indication of any immediate medical attention and special treatment needed

Note to doctors Treat symptomatically.

SECTION 5: Firefighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media CO_2, dry chemical, dry sand, alcohol-resistant foam. Water spray or fog.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Specific hazards arising from the chemical Avoid generation of dust. Fine dust dispersed in air may ignite. Powders, dusts, shavings, borings, turnings or cuttings may explode or burn with explosive violence.

Special protective actions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Avoid generation of dust. Avoid contact with eyes. Use personal protective equipment as required. Do not breathe dust. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharges.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Prevent dust cloud.

Methods for cleaning up Take up with inert, damp, non-combustible material using clean non-sparking tools and place into loosely covered plastic containers for later disposal. Pick up and transfer to properly labelled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Avoid contact with eyes. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. Airborne dusts are potentially explosive. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute

to secondary explosions. Handling and processing operations should be conducted in accordance with 'best practices' (e.g. NFPA-654).

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust. Do not eat, drink or smoke when using this product. Take off all contaminated clothing and wash it before reuse. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Keep container closed when not in use. Keep in an area equipped with sprinklers.

SECTION 8: Exposure controls/personal protection

Control parameters

Occupational exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering controls Ensure that eyewash stations and safety showers are close to the workstation location. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen- deficient environment.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). During hot processing: Tight sealing safety goggles. If there is a risk of contact: Face protection shield.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Protective shoes or boots. During hot processing:

Hand protection Heat resistant gloves are recommended when handling molten materials.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Pellets, granules
Physical state	Solid
Colour	White to off-white
Odour	Odourless; Mild
Odour threshold	No information available

Property	**Values**
pH	No data available

Melting point / freezing point	160 - 170 °C
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Flammability Limit in Air	
Upper flammability or explosive limits	No data available
Lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.9 - 0.92
Water solubility	Negligible
Solubility(ies)	No data available
Partition coefficient	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive properties	No information available.
Oxidising properties	No information available.

Other information No information available

SECTION 10: Stability and reactivity

Reactivity

Reactivity None under normal use conditions.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoid Excessive heat. Heating in air. Dust formation.

Incompatible materials

Incompatible materials None known based on information supplied.

Hazardous decomposition products

Hazardous decomposition products Decomposition products depend on temperature, exposure to air, and the presence of other substances. Processing may release irritating fumes, olefinic and paraffinic compounds, carbon monoxide, and carbon dioxide. Potential thermal decomposition products include trace aldehydes (including formaldehyde), alcohols, organic acids, and hydrocarbons.

SECTION 11: Toxicological information

Information on likely routes of exposure

Product Information .

Inhalation May cause irritation of respiratory tract.

Eye contact Dust contact with the eyes can lead to mechanical irritation.

Skin contact Contact with dust can cause mechanical irritation or drying of the skin.

Ingestion May cause irritation of the mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity
Based on available data, the classification criteria are not met.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Contains no ingredients above reportable quantities listed as a carcinogen.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard None of the ingredients are known to be an aspiration hazard.

SECTION 12: Ecological information

Ecotoxicity

Ecotoxicity Material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life Avoid release to the environment

Unknown aquatic toxicity Contains 0 % of components with unknown hazards to the aquatic environment

Persistence and degradability

Persistence and degradability This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

Bioaccumulative potential

Bioaccumulation There is no data for this product

Mobility

Mobility in soil No information available.

PBT and vPvB assessment No information available.

Other adverse effects

Other adverse effects No information available

SECTION 13: Disposal considerations

Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not dispose of with household waste. Do not flush to sewer. Do not allow to enter into surface water or drains.

SECTION 14: Transport information

ADR Not regulated

IMDG Not regulated

IATA Not regulated

SECTION 15: Regulatory information

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

Singapore

Environmental Public Health Act
Dispose of waste product or used containers according to local regulations.

Hazardous Waste (Control of Export, Import and Transit) Act
It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Take note that wastes may be subject to export, import, or transit controls pursuant to the Basel convention and/or local regulations implementing the Basel convention.

Workplace Safety and Health Act
Comply with the health and safety at work laws.

International Regulations

The Rotterdam Convention Not applicable

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Label elements

Issuing Date	02-Dec-2020
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Revision Note	Initial Release.

This safety data sheet complies with the requirements of: SS586: 2008 (2014)

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet