Polymer Grade Propylene

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 03 February 2016 Revision date: 11 October 2024 Supersedes version of: 04 May 2018 Version: 7.0

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

1.1. Product identifier

Product form	:	Substance
Trade name	:	Polymer Grade Propylene
Chemical name	:	propene; propylene
EC Index-No.	:	601-011-00-9
EC-No.	:	204-062-1
CAS-No.	:	115-07-1
REACH registration No	:	01-2119447103-50
Product code	:	P048
Formula	:	C3H6

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

1.2.1. Relevant identified uses

Use of the substance/mixture	:	Use as an intermediate Distribution of substance Formulation Use as a fuel Use in polymer production Use in propellants Fuel additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Braskem Netherland BV
Weena 238-240, 9th Floor, Tower C
NL - 3012 NJ – Rotterdam

Braskem S.A.
Rua Eteno, 1561 - Polo Petroquímico de Camaçari
42810-000 – Camaçari – BA – Brasil

productsafety@braskem.com

1.4. Emergency telephone number

Emergency number	:	CHEMTREC: +1 703-741-5970 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable gases, Category 1A	H220
Gases under pressure : Compressed gas	H280

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Extremely flammable gas. Contains gas under pressure; may explode if heated.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS02

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H220 - Extremely flammable gas. H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P377 - Leaking gas fire: Do not extinguish, unless leak can be stopped safely.

P381 - In case of leakage, eliminate all ignition sources.
P410+P403 - Protect from sunlight. Store in a well-ventilated place.

2.3. Other hazards

other hazards which do not result in classification : When mixed with air and exposed to ignition source, can burn in open air or explode if confined. Handling this product may result in electrostatic accumulation. Use proper grounding procedures. Can cause frostbite. May explode on heating.

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
propene; propylene	CAS-No.: 115-07-1 EC-No.: 204-062-1 EC Index-No.: 601-011-00-9 REACH-no: 01-2119447103-50	≥ 99,5

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Do not rub the skin and eyes after direct contact with the product. Avoid any direct contact with the product. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If not breathing, give artificial respiration. Keep victim warm and rested. Seek medical attention immediately.

First-aid measures after skin contact : May cause frostbite. Clothing frozen to the skin should be thawed before being removed. Thaw frosted parts with lukewarm water. Do not rub affected area. Remove the victim away from contaminated area. Remove clothing and jewellery that can restrict circulation. Seek medical attention immediately.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Ensure adequate flushing of eyes by separating eyelids with the fingers. If eyelids are bonded closed release eyelashes with warm water by covering the eye with a wet pad. Do not force eyelids open. Seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Fatigue. Decrease of vision. High concentration of vapours may induce: headache, nausea, dizziness. Vomiting. Asphyxiant in high concentrations. May cause frostbite.

Symptoms/effects after inhalation : Asphyxiant in high concentrations. High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

Symptoms/effects after skin contact : May cause frostbite.

Symptoms/effects after eye contact : May cause frostbite.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO2), dry chemical powder, foam. For large fire: Water fog.

Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread. Do not aim water directly at point where compressed gas is escaping, as the water may freeze. Do not extinguish flame due to possibility of explosive reignition.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Extremely flammable gas. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Explosive when mixed with oxidizing substances. Fight fire with normal precautions from a reasonable distance. Prolonged exposure to fire may cause containers to rupture/explode. Heavier than air, vapours may travel long distances along ground, ignite and flash back to source. May cause frostbite. Asphyxiant in high concentrations. Hazardous combustion products. On combustion forms: Carbon dioxide. Carbon monoxide.

Explosion hazard : Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Reacts violently with oxidizing substances. Prolonged exposure to fire may cause containers to rupture/explode.

5.3. Advice for firefighters

Firefighting instructions : Cool down the containers exposed to heat with a water spray. Wear proper protective equipment. Prolonged exposure to fire may cause containers to rupture/explode. Spray from a distance to keep far away from any possible explosion. In case of fire: stop leak if safe to do so.

Protective equipment for firefighters : Complete protective clothing. Wear a self contained breathing apparatus. For further information refer to section 13.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Boots. Gloves. Self contained breathing apparatus. For further information refer to section 13.

Emergency procedures : Avoid ignition sources. Do not smoke. Eliminate all ignition sources if safe to do so. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Boots. Gloves. Complete protective clothing. In case of fire: Self contained breathing apparatus. For further information refer to section 13.

Emergency procedures : Eliminate all ignition sources if safe to do so. Evacuate unnecessary personnel. Risk of suffocation due to oxygen deficiency in confined areas. Ventilate area.

6.2. Environmental precautions

Activated Carbon Adsorption. Avoid discharge to the environment. Do not discharge into surface water.

6.3. Methods and material for containment and cleaning up

For containment : Activated Carbon Adsorption.

Methods for cleaning up : Incineration. Activated Carbon Adsorption. Mechanically ventilate the spillage area.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid all unnecessary exposure. Avoid inhalation of the product. Wear recommended personal protective equipment. Keep container closed when not in use. Containers must be properly grounded before beginning transfer. Cool the receiving container before transfer and ensure it is able to support the transfer operation at very low temperatures. Open and close cylinder valves at least once per day to avoid freezing. Have fire-fighting and leak stopping equipment readily available.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame. Store in dry, cool, well-ventilated area. Protect containers against damage. Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools. Use only explosion-proof equipment. Have fire-fighting and leak stopping equipment readily available. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Provide local exhaust or general room ventilation.

Storage conditions : Do not store near oxidizing agents. Keep container closed when not in use. Keep away from open flames, hot surfaces and sources of ignition. Keep out of direct sunlight. Protect containers against damage. Underground storage. Put the cylinders underground and store them under soil level.

Incompatible materials : Air. Water. Strong oxidizing agents. Acids. Vapours. Lithium nitrate and sulphur dioxide: the resulting mixtures may polymerize explosively. Trimethyl hypofluorite.

Storage area : Keep away from heat and direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Keep only in the original container in a cool well ventilated place. Provide for an automatic sprinkler system.

7.3. Specific end use(s)

See Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Propene (115-07-1)	
Belgium - Occupational Exposure Limits	
Local name	Propylène # Propeen
OEL TWA	875 mg/m³
OEL TWA [ppm]	500 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Denmark - Occupational Exposure Limits	
Local name	Propen (Propylen)
OEL TWA [1]	172 mg/m³
OEL TWA [2]	100 ppm
Regulatory reference	BEK nr 1426 af 28. juni 2021
Finland - Occupational Exposure Limits	
Local name	Propyleeni
HTP (OEL TWA) [2]	500 ppm
Remark	Happea syrjäyttämällä tukahduttavat kaasut.
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
Ireland - Occupational Exposure Limits	
Local name	Propylene
OEL TWA [2]	500 ppm
Remark	Asphx. (Gaseous chemical substances which may not produce significant physiological effects in the exposed employee, but when present in high concentrations will act as simple asphyxiants)
Regulatory reference	Chemical Agents Code of Practice 2021
Latvia - Occupational Exposure Limits	
Local name	Propilēns (propēns)
OEL TWA	100 mg/m³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92)
Lithuania - Occupational Exposure Limits	
Local name	Propenas (propilenas)
IPRV (OEL TWA)	900 mg/m³
IPRV (OEL TWA) [ppm]	500 ppm
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
Poland - Occupational Exposure Limits	
Local name	Propen
NDS (OEL TWA)	2000 mg/m³
NDSCh (OEL STEL)	8600 mg/m³
Regulatory reference	Dz. U. 2018 poz. 1286
Portugal - Occupational Exposure Limits	
Local name	Propileno
OEL TWA [ppm]	500 ppm

Propene (115-07-1)	
Remark	A4 (Agente não classificável como carcinogénico no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Propileno
VLA-ED (OEL TWA) [2]	500 ppm
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
Sweden - Occupational Exposure Limits	
Local name	Propen
NGV (OEL TWA)	900 mg/m³
NGV (OEL TWA) [ppm]	500 ppm
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
USA - ACGIH - Occupational Exposure Limits	
Local name	Propylene
ACGIH OEL TWA [ppm]	500 ppm
Remark (ACGIH)	Asphyxia; URT irr
Regulatory reference	ACGIH 2021

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Handle in accordance with good industrial hygiene and safety procedures. Local exhaust and general room ventilation are both essential to prevent accumulation of flammable vapour. Use explosion-proof equipment. Exhaust ventilation systems should be directly to the outside. Supply sufficient replacement air to compensate the air removed by exhaust systems.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:
Chemical goggles or face shield with safety glasses

8.2.2.2. Skin protection

Skin and body protection:
Boots. PVC apron covering the tops of the boots. Use chemically protective clothing

Hand protection:
Protective gloves made of PVC

8.2.2.3. Respiratory protection

Respiratory protection:
An approved organic vapour respirator/supplied air or self-contained breathing apparatus must be used when vapour concentration exceeds applicable exposure limits

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Gas
Colour	:	Colourless.
Molecular mass	:	42.08 g/mol
Odour	:	Odourless.
Odour threshold	:	Not available
Melting point	:	-185.25 °C
Freezing point	:	Not applicable
Boiling point	:	-47.7 °C
Flammability	:	Flammable
Explosive limits	:	2 – 11 vol %
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	-107.8 °C Closed cup
Auto-ignition temperature	:	455 °C
Decomposition temperature	:	91.6 °C
pH	:	Not applicable
Viscosity, kinematic	:	Not applicable
Solubility	:	Water: Slightly soluble
Partition coefficient n-octanol/water (Log Pow)	:	1.77
Vapour pressure	:	1043 kPa (10.3 atm) 21.1ºC
Vapour pressure at 50 °C	:	Not available
Density	:	0.07 (Liquid at boiling point)
Relative density	:	Not applicable
Relative vapour density at 20 °C	:	1.48 (20ºC)
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1)	:	Not applicable
Gas group	:	Compressed gas

SECTION 10: Stability and reactivity

10.1. Reactivity

May form an explosive mixture in the presence of air. Explosive when mixed with oxidizing substances. Reacts violently with acids. Explosion risk in case of fire. Lithium nitrate and sulphur dioxide: the resulting mixtures may polymerize explosively. Will explode on mixing with trimethyl hypofluorite in the absence of a diluent, such as nitrogen.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Can form explosive peroxides by prolonged contact with air. Vapours may form explosive mixture with air. Do not allow contact with water. Hazardous polymerization may occur if exposure to fire conditions. Attacks some forms of plastics, rubber, and coatings.

10.4. Conditions to avoid

Direct sunlight. Keep away from open flames, hot surfaces and sources of ignition. Air. Incompatible materials. Temperatures higher than 50°C or less than -29°C. Excessive humidity. . insufficient ventilation.

10.5. Incompatible materials

Air. Water. Oxidizing agent. Acids. Attacks some forms of plastics, rubber, and coatings. Lithium nitrate and sulphur dioxide: the resulting mixtures may polymerize explosively. Will explode on mixing with trimethyl hypofluorite in the absence of a diluent, such as nitrogen.

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Propene (115-07-1)	
LC50 Inhalation - Rat [ppm]	> 65000 ppm/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Propene (115-07-1)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Not applicable)

Propene (115-07-1)	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : None known

11.2.2. Other information

Potential Adverse human health effects and symptoms : Asphyxiant in high concentrations,Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination,Contact with the liquid the may cause cold burns/frostbite

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Contributes to the formation of photochemical smog by degradation in the atmosphere through photochemical reactions to form photochemical oxidants and interfering with the photochemical cycle of nitrogen oxides.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

12.2. Persistence and degradability

Propene (115-07-1)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Propene (115-07-1)	
Partition coefficient n-octanol/water (Log Pow)	1.77
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Propene (115-07-1)	
Results of PBT assessment	This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : None known

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Incineration. Disposal must be done according to official regulations. Activated Carbon Adsorption.

Product/Packaging disposal recommendations : Disposal must be done according to official regulations.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1077	UN 1077	UN 1077	UN 1077	UN 1077
14.2. UN proper shipping name				
PROPYLENE	PROPYLENE	Propylene	PROPYLENE	PROPYLENE
Transport document description				
UN 1077 PROPYLENE (PROPILENE), 2.1, (B/D)	UN 1077 PROPYLENE (PROPILENE), 2.1	UN 1077 Propylene (PROPILENE), 2.1	UN 1077 PROPYLENE (PROPILENE), 2.1	UN 1077 PROPYLENE (PROPILENE), 2.1
14.3. Transport hazard class(es)				
2.1	2.1	2.1	2.1	2.1
				
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information available				

14.6. Special precautions for user

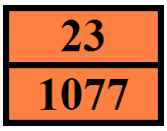
Overland transport

Classification code (ADR) : 2F

Special provisions (ADR) : 662

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR)	:	P200
Mixed packing provisions (ADR)	:	MP9
Portable tank and bulk container instructions (ADR)	:	(M), T50
Tank code (ADR)	:	PxBN(M)
Tank special provisions (ADR)	:	TA4, TT9
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	2
Special provisions for carriage - Loading, unloading and handling (ADR)	:	CV9, CV10, CV36
Special provisions for carriage - Operation (ADR)	:	S2, S20
Hazard identification number (Kemler No.)	:	23
Orange plates	:	
Tunnel restriction code (ADR)	:	B/D

Transport by sea

Limited quantities (IMDG)	:	0
Excepted quantities (IMDG)	:	E0
Packing instructions (IMDG)	:	P200
Tank instructions (IMDG)	:	T50
EmS-No. (Fire)	:	F-D
EmS-No. (Spillage)	:	S-U
Stowage category (IMDG)	:	E
Stowage and handling (IMDG)	:	SW2
Properties and observations (IMDG)	:	Flammable hydrocarbon gas. Explosive limits: 2 % to 11.1% Heavier than air (1.5).

Air transport

PCA Excepted quantities (IATA)	:	E0
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	Forbidden
PCA max net quantity (IATA)	:	Forbidden
CAO packing instructions (IATA)	:	200
CAO max net quantity (IATA)	:	150kg
Special provisions (IATA)	:	A1
ERG code (IATA)	:	10L

Inland waterway transport

Classification code (ADN)	:	2F
Special provisions (ADN)	:	662
Limited quantities (ADN)	:	0
Excepted quantities (ADN)	:	E0
Carriage permitted (ADN)	:	T
Equipment required (ADN)	:	PP, EX, A
Ventilation (ADN)	:	VE01
Number of blue cones/lights (ADN)	:	1

Rail transport

Classification code (RID)	:	2F
Special provisions (RID)	:	662
Limited quantities (RID)	:	0
Excepted quantities (RID)	:	E0
Packing instructions (RID)	:	P200
Mixed packing provisions (RID)	:	MP9
Portable tank and bulk container instructions (RID)	:	T50(M)
Tank codes for RID tanks (RID)	:	PxBN(M)
Special provisions for RID tanks (RID)	:	TU38, TE22, TA4, TT9, TM6
Transport category (RID)	:	2
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW9, CW10, CW36

Colis express (express parcels) (RID) : CE3

Hazard identification number (RID) : 23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

EU restriction list (REACH Annex XVII)	
Reference code	**Applicable on**
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Propene

Propene is not on the REACH Candidate List

Propene is not on the REACH Annex XIV List

Propene is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Propene is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active

Listed on the Canadian DSL (Domestic Substances List)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Subject to reporting requirements of United States SARA Section 313

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the Japanese ENCS (Existing New Chemical Substances) inventory

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the Japanese ISHL (Industrial Safety and Health Law)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on the NCI (Vietnam - National Chemicals Inventory)

Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 816)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : The substance is not listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : The substance is not listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : The substance is not listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F+ <Flam. Gas 1; Press. Gas>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes			
Section	**Changed item**	**Change**	**Comments**
1.1	REACH registration No	Added	
3.1	REACH registration No	Added	
8.1	Control parameters	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
15	Regulatory information	Modified	

Abbreviations and acronyms:	
ACGIH	ACGIH (American Conference of Governement Industrial Hygienists)
ASTM	ASTM - American Society for Testing and Materials
CAS	CAS (Chemical Abstracts Service) number
CLP	CLP - Classification, Labelling and Packaging
CSR	CSR - Chemical Safety Report
EC	EC - European Community
EEC	EEC - European Economic Community
GHS	GHS - Globally Harmonised System
ADR	Overland transport (ADR)
PVC	PVC (Polyvinyl chloride).
REACH	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	SDS - Safety Data Sheet

Sources of Key data : Data arise from reference works and literature.

Full text of H- and EUH-statements:	
Flam. Gas 1A	Flammable gases, Category 1A
H220	Extremely flammable gas.
H280	Contains gas under pressure; may explode if heated.
Press. Gas (Comp.)	Gases under pressure : Compressed gas

Braskem - SDS_EU (modified 210810)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It warns that the handling of any chemical substance requires the previous knowledge of its hazards for the user. It is up to the user of the product company providing this SDS to and promote the training of its employees about possible risks come upon of the product. The information contained herein is not absolute, but only general information on the use of the chemical and indication of safety and security measures.