Safety Data Sheet (SDS)

Name	Bloomchemag BV
Address	Sint - Antoniusstraat 16 b1, B-2400 Mol, Belgium.
Telephone	+91 72919 74484 / 72919 74050
E-mail	info@bloomchemag.com

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Product identifier

Product name	Propylene glycol
Synonyms, trade names	Propylene glycol
REGISTRATION NO.	/
REACH	01-2119456809-23-XXXX

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

Recommended use	No information available
Restrictions on use	No information available

1.3 Details of the Manufacturer and the Supplier

1.3.1 Details of the Manufacturer

Name	Bloomchemag BV
Address	Sint - Antoniusstraat 16 b1, B-2400 Mol, Belgium.
Telephone	+91 72919 74484 / 72919 74050
E-mail	info@bloomchemag.com

1.4 Emergency telephone

Emergency telephone	+91 72919 74484

2 HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Not classified.

2.2 Label elements

Pictogram(s)	No pictogram
Signal word	No signal word

| Hazard statements

No information available.

| Precautionary statements

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Prevention

No information available.

Response

No information available.

Storage

No information available.

Disposal

No information available.

2.3 Other hazards

No information available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Product type: Substance

Name	EC-No	CAS-No	Content (weight percentage, %)	Classification
Propane-1,2-diol	200-338-0	57-55-6	⩾99.5	Not classified

4 FIRST-AID MEASURES

4.1 Description of first aid measures

General advice	Take persons to a safe place. Observe self-protection for first aid.
Eye contact	Flush eyes with water thoroughly and continuously for 15 minutes. Remove contact lenses, if present and easy to do. If irritation persists get medical advice/attention.
Skin contact	Wash skin thoroughly with mild soap and water.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Avoid inhalation of hot vapors or extremely high concentrations of aerosols Remove to fresh air. Consult a physician if necessary.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable	SMALL FIRE: Use dry chemicals, CO_2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.
Unsuitable	Do not use solid water stream.

5.2 Special hazards arising from the substances or mixture

No information available.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Structural firefighter's protective clothing will only provide limited protection.

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6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Where exposure level is not known, wear approved, positive pressure, self-contained respirator.
Where exposure level is known, wear approved respirator suitable for level of exposure.
In addition to the protective clothing/equipment in Section 8, wear a two piece PVC suit with hood or PVC overalls with hood.

6.2 Environmental precautions

Try to prevent the material from entering drains or water courses.
Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Contain the spilled material by bunding.
Do not allow uncontrolled discharge of product into the environment.

6.3 Methods and materials for containment and cleaning up

Extinguish all ignition sources. Stop release; prevent flow to sewers/public waters. Notify fire and environmental authorities. Impound/recover large land spill; soak up small spill with inert solids. -Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle empty containers with care. residue can burn if heated. Empty containers should be thoroughly rinsed with copious amounts of clean water. The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. -Protect from moisture. Store away from heat. Material can attack some forms of plastics. Do not store together with oxidizing and self-igniting products. Advice on common storage: Carbon/Mild Steel, with suitable internal coating, or stainless steel. Other data : No decomposition if stored and applied as directed.

7.3 Special end use(s)

No information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

| Occupational Exposure limit values

Component	Country	Occupational exposure limits	
Propane-1,2-diol	**Latvia**	/	7 mg/m^3
	Ireland	150 ppm	470 mg/m^3

8.2 Appropriate engineering controls

Avoid splashing. Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Hand protection	Not normally considered a skin hazard. Wear chemical resistant gloves such as:-If protective gloves are used, the glove material must be resistant to the substance.

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	Glove material for example, Nitrile rubber/Nitrile latex (NBR; GESTIS substance database (hazardous substance information system of commercial professional associations). Gloves must be replaced after 8 hours of wear. The selected protective gloves have to satisfy the European standard EN 374. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. The selected goggles or glasses must satisfy the European standard EN 166.
Hygiene measures	When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Depending on risk assessment, the selected protective clothing must satisfy EU standard EN 13034, which describes clothing offering limited 8-hour protection against splashes, or, EU standard EN 14605, which describes liquid- or spray-tight clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Use PPE that is chemical resistant to the product and prevents skin contact. Fire retardant and anti-static clothing is appropriate for routine occupational use.
Skin protection	Wash at mealtime and end of shift is adequate. Wear fear/flame resistant and impervious clothing. Handle with gloves. Gloves must inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory	No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive-pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter conforming to EU standards EN 140 and EN 14387 respectively. Select a type A filter or better.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless, bitter, slightly viscous and hygroscopic liquid
Color	Colorless
Odour	Bitter
Odour threshold	No information available
pH	No information available
Melting/freezing point	-59 ℃
Initial boiling point and boiling range	187.2 ℃
Flash point	99 ℃
Evaporation rate	No information available
Flammability	Non flammable
Lower and upper explosion limit/flammability limit	Lower explosion limit: 2.6 %(V/V) Upper explosion limit: 12.6 %(V/V)
Vapour pressure	0.02 Pa(25 ℃)
Vapour density	2.62 (Air = 1.0)
Density	1.03g/cm^3(20 ℃)
Bulk density	No information available
Solubility(water)	Miscible with water, soluble in ethanol, ether, most organic solvents
Partition coefficient n-octanol/water	Log Kow=-1.07(20°C)
Auto-ignition temperature	371 ℃

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Decomposition temperature	No information available
Viscosity	43.4 mPa·s (25 °C)
Explosive properties	No explosive properties
Oxidising properties	No oxidising properties
Molecular mass:	76.094 g/mol

10 STABILITY AND REACTIVITY

10.1 Reactive

This material is stable when properly handled and stored.

10.2 Chemical stability

This material is stable when properly handled and stored.

10.3 Possibility of hazardous reactions

Thermal decomposition may produce carbon monoxide and other toxic vapors.

10.4 Conditions to avoid

High temperatures, oxidizing conditions.

10.5 Incompatible materials

Strong acids, Isocyanates, strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon Monoxide and other toxic vapors.

11 TOXICOLOGICAL INFORMATION

| Acute toxicity

Component	Oral	Dermal	Inhalation
Propane-1,2-diol	Rat, LD_{50} = 22000 mg/kg bw	Rabbit, LD_{50} > 2000 mg/kg bw	Rabbit, LD_{50} > 317 042 mg/m³air (2h)

| Carcinogenicity

Component	IARC	NTP
Propane-1,2-diol	Not listed	Not listed

| Other

Endpoint	Component	Toxicological Information
Skin corrosion/irritation	Propane-1,2-diol	Not irritating
Serious eye damage/irritation	Propane-1,2-diol	No information available.
Skin sensitization	Propane-1,2-diol	No information available.
Respiratory sensitization	Propane-1,2-diol	No information available.
Reproductive toxicity	Propane-1,2-diol	P0: Mouse,NOAEL= 10100 mg/kg bw/day (actual dose received) F1: Mouse,NOAEL= 10100 mg/kg bw/day (actual dose received) F2: Mouse,NOAEL= 10100 mg/kg bw/day
STOT-single exposure	Propane-1,2-diol	No information available.
STOT-repeated exposure	Propane-1,2-diol	No information available.
Aspiration hazard	Propane-1,2-diol	No information available.
Germ cell mutagenicity	Propane-1,2-diol	Negative(vitro/vivo).

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12 ECOLOGICAL INFORMATION

| Ecological toxicity

Component	Fish	Aquatic invertebrates	Aquatic algae and cyanobacteria
Propane-1,2-diol	Acute: Oncorhynchus mykiss, LC_{50} = 40613 mg/L (96h) Long term: Long-term e xposure of fish is not co nsidered relevant as the substance is readily bio degradable.	Acute: Ceriodaphnia dubia, lC $_{50}$ = 18340 mg/L (48 h) Long term: Ceriodaphnia sp, NOEC =13020mg/L (7d)	Raphidocelis subcapitata, EC_{50} =19000 mg/L (96 h)

| Other

Endpoint	Component	Toxicological Information
Persistence and degradability	Propane-1,2-diol	Readily biodegradable in water
Bioaccumulative potential	Propane-1,2-diol	BCF=0.09
Mobility in soil	Propane-1,2-diol	Koc=2.9(20°C)
PBT/vPvB	Propane-1,2-diol	The substance is not PBT / vPvB

13 DISPOSAL CONSIDERATIONS

| GENERAL INFORMATION

Dispose in a safe manner in accordance with local/national regulations.

| DISPOSAL METHODS

Product: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

14 TRANSPORT INFORMATION

Transport pictograph	No information available

Transport	Classification
Land transport (ADR/RID)	
UN Number	Not classified as dangerous goods
UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Classification code	No information available
Marine transport (IMDG)	
UN Number	Not classified as dangerous goods
UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
EMS No.	No information available
Remarks	No information available
Air transport (ICAO/IATA)	
UN Number	Not classified as dangerous goods

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UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Classification code	No information available

15 REGULATORY INFORMATION

| International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Propane-1,2-diol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

| Note

EINECS	European Inventory of Existing Commercial Chemical Substances.
TSCA	United States Toxic Substances Control Act Inventory.
DSL	Canadian Domestic Substances List.
IECSC	Inventory of Existing Chemical Substances in China
NZIoC	New Zealand Inventory of Chemicals.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
KECI	Korea Existing Chemicals Inventory
AICS	Australia Inventory of Chemical Substances.

16 OTHER INFORMATION

Revision Date	2022/08/02
Reason for modification	-

REFERENCE

[1] IPCS - The International Chemical Safety Cards (ICSC), website:http://www.ilo.org/dyn/icsc/showcard.home
[2] HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
[3] IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
[4] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
[5] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
[6] ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
[7] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
[8] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp
[9] ECHA - European Chemicals Agency, website: https://echa.europa.eu/

ABBREVIATIONS AND ACRONYMS

CAS: Chemical Abstracts Service
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG: International Maritime Dangerous Goods
IATA: International Air Transportation Association
TWA: Time Weighted Average
STEL: Short term exposure limit

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LC_{50}: Lethal Concentration 50%
LD_{50}: Lethal Dose 50%
EC_{50}: Effective Concentration 50%

STATEMENT

This safety technical specification (SDS) is prepared according to Regulation (EC) No 1907/2006 and Regulation (EU) No 2015/830.The data collected are from authoritative international databases and provided by enterprises themselves. Other information is based on our current state of knowledge. We try to make sure all the information is correct. However, due to the diversity of information sources and the limitations of our knowledge, this document is for user reference only. Users should make independent judgments about the suitability of this information for their specific purposes. We are not liable for any loss, damage or expense arising from or in connection with the handling, storage, use or disposal of the Products.

*****END OF THE BODY*****

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	MATERIAL SAFETY DATA SHEET	MSDS No.	M-01
BloomchemAG	Propylene Glycol	Effective From	26/02/2021

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.5 Product identifier

Product name	Propylene glycol
Synonyms, trade names	Propylene glycol
REGISTRATION NO.	/
REACH	01-2119456809-23-XXXX

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

Recommended use	No information available
Restrictions on use	No information available

1.7 Details of the Manufacturer and the Supplier

1.7.1 Details of the Manufacturer

Name	Bloomchemag BV
Address	Sint - Antoniusstraat 16 b1, B-2400 Mol, Belgium.
Telephone	+91 72919 74484 / 72919 74050
E-mail	info@bloomchemag.com

1.8 Emergency telephone

Emergency telephone	+91 72919 74484

2 HAZARDS IDENTIFICATION

2.4 Classification of substance or mixture

Not classified.

2.5 Label elements

Pictogram(s)	No pictogram
Signal word	No signal word

| Hazard statements

No information available.

| Precautionary statements

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Prevention

No information available.

Response

No information available.

Storage

No information available.

Disposal

No information available.

2.6 Other hazards

No information available.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Product type: Substance

Name	EC-No	CAS-No	Content (weight percentage, %)	Classification
Propane-1,2-diol	200-338-0	57-55-6	⩾99.5	Not classified

4 FIRST-AID MEASURES

4.4 Description of first aid measures

General advice	Take persons to a safe place. Observe self-protection for first aid.
Eye contact	Flush eyes with water thoroughly and continuously for 15 minutes. Remove contact lenses, if present and easy to do. If irritation persists get medical advice/attention.
Skin contact	Wash skin thoroughly with mild soap and water.
Ingestion	Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Inhalation	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Avoid inhalation of hot vapors or extremely high concentrations of aerosols Remove to fresh air. Consult a physician if necessary.

4.5 Most important symptoms and effects, both acute and delayed

No information available.

4.6 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5 FIRE-FIGHTING MEASURES

5.4 Extinguishing media

Suitable	SMALL FIRE: Use dry chemicals, CO_2, water spray or alcohol-resistant foam. LARGE FIRE: Use water spray, water fog or alcohol-resistant foam.
Unsuitable	Do not use solid water stream.

5.5 Special hazards arising from the substances or mixture

No information available.

5.6 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Structural firefighter's protective clothing will only provide limited protection.

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6 ACCIDENTAL RELEASE MEASURES

6.4 Personal precautions, protective equipment and emergency procedures

Where exposure level is not known, wear approved, positive pressure, self-contained respirator.
Where exposure level is known, wear approved respirator suitable for level of exposure.
In addition to the protective clothing/equipment in Section 8, wear a two piece PVC suit with hood or PVC overalls with hood.

6.5 Environmental precautions

Try to prevent the material from entering drains or water courses.
Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
Contain the spilled material by bunding.
Do not allow uncontrolled discharge of product into the environment.

6.6 Methods and materials for containment and cleaning up

Extinguish all ignition sources. Stop release; prevent flow to sewers/public waters. Notify fire and environmental authorities. Impound/recover large land spill; soak up small spill with inert solids. -Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

7 HANDLING AND STORAGE

7.4 Precautions for safe handling

Handle empty containers with care. residue can burn if heated. Empty containers should be thoroughly rinsed with copious amounts of clean water. The rinse water can be used for makeup water for any necessary dilution of the concentrated product before use, or it can be properly discarded Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.5 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. -Protect from moisture. Store away from heat. Material can attack some forms of plastics. Do not store together with oxidizing and self-igniting products. Advice on common storage: Carbon/Mild Steel, with suitable internal coating, or stainless steel. Other data : No decomposition if stored and applied as directed.

7.6 Special end use(s)

No information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.4 Control parameters

| Occupational Exposure limit values

Component	Country	Occupational exposure limits	
Propane-1,2-diol	**Latvia**	/	7 mg/m^3
	Ireland	150 ppm	470 mg/m^3

8.5 Appropriate engineering controls

Avoid splashing. Avoid creating mist or spray. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation.

8.6 Individual protection measures, such as personal protective equipment (PPE)

Hand protection	Not normally considered a skin hazard. Wear chemical resistant gloves such as:-If protective gloves are used, the glove material must be resistant to the substance.

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	Glove material for example, Nitrile rubber/Nitrile latex (NBR; GESTIS substance database (hazardous substance information system of commercial professional associations). Gloves must be replaced after 8 hours of wear. The selected protective gloves have to satisfy the European standard EN 374. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Eye protection	Eye protection such as chemical splash goggles and/or face shield must be worn when possibility exists for eye contact due to splashing or spraying liquid, airborne particles, or vapor. The selected goggles or glasses must satisfy the European standard EN 166.
Hygiene measures	When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, head and face protection should be worn. Depending on risk assessment, the selected protective clothing must satisfy EU standard EN 13034, which describes clothing offering limited 8-hour protection against splashes, or, EU standard EN 14605, which describes liquid- or spray-tight clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place. Use PPE that is chemical resistant to the product and prevents skin contact. Fire retardant and anti-static clothing is appropriate for routine occupational use.
Skin protection	Wash at mealtime and end of shift is adequate. Wear fear/flame resistant and impervious clothing. Handle with gloves. Gloves must inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respiratory	No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, select respiratory protection equipment suitable for the specific conditions of use. Check with respiratory protective equipment suppliers. Where air-filtering respirators are unsuitable (e.g. airborne concentrations are high, risk of oxygen deficiency, confined space) use appropriate positive-pressure breathing apparatus. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter conforming to EU standards EN 140 and EN 14387 respectively. Select a type A filter or better.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless, bitter, slightly viscous and hygroscopic liquid
Color	Colorless
Odour	Bitter
Odour threshold	No information available
pH	No information available
Melting/freezing point	-59 ℃
Initial boiling point and boiling range	187.2 ℃
Flash point	99 ℃
Evaporation rate	No information available
Flammability	Non flammable
Lower and upper explosion limit/flammability limit	Lower explosion limit: 2.6 %(V/V) Upper explosion limit: 12.6 %(V/V)
Vapour pressure	0.02 Pa(25 ℃)
Vapour density	2.62 (Air = 1.0)
Density	1.03g/cm^3(20 ℃)
Bulk density	No information available
Solubility(water)	Miscible with water, soluble in ethanol, ether, most organic solvents
Partition coefficient n-octanol/water	Log Kow=-1.07(20°C)
Auto-ignition temperature	371 ℃

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Decomposition temperature	No information available
Viscosity	43.4 mPa·s (25 °C)
Explosive properties	No explosive properties
Oxidising properties	No oxidising properties
Molecular mass:	76.094 g/mol

10 STABILITY AND REACTIVITY

10.7 Reactive

This material is stable when properly handled and stored.

10.8 Chemical stability

This material is stable when properly handled and stored.

10.9 Possibility of hazardous reactions

Thermal decomposition may produce carbon monoxide and other toxic vapors.

10.10 Conditions to avoid

High temperatures, oxidizing conditions.

10.11 Incompatible materials

Strong acids, Isocyanates, strong oxidizing agents.

10.12 Hazardous decomposition products

Carbon Monoxide and other toxic vapors.

11 TOXICOLOGICAL INFORMATION

| Acute toxicity

Component	Oral	Dermal	Inhalation
Propane-1,2-diol	Rat, LD_{50} = 22000 mg/kg bw	Rabbit, LD_{50} > 2000 mg/kg bw	Rabbit, LD_{50} > 317 042 mg/m³air (2h)

| Carcinogenicity

Component	IARC	NTP
Propane-1,2-diol	Not listed	Not listed

| Other

Endpoint	Component	Toxicological Information
Skin corrosion/irritation	Propane-1,2-diol	Not irritating
Serious eye damage/irritation	Propane-1,2-diol	No information available.
Skin sensitization	Propane-1,2-diol	No information available.
Respiratory sensitization	Propane-1,2-diol	No information available.
Reproductive toxicity	Propane-1,2-diol	P0: Mouse,NOAEL= 10100 mg/kg bw/day (actual dose received) F1: Mouse,NOAEL= 10100 mg/kg bw/day (actual dose received) F2: Mouse,NOAEL= 10100 mg/kg bw/day
STOT-single exposure	Propane-1,2-diol	No information available.
STOT-repeated exposure	Propane-1,2-diol	No information available.
Aspiration hazard	Propane-1,2-diol	No information available.
Germ cell mutagenicity	Propane-1,2-diol	Negative(vitro/vivo).

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12 ECOLOGICAL INFORMATION

| Ecological toxicity

Component	Fish	Aquatic invertebrates	Aquatic algae and cyanobacteria
Propane-1,2-diol	Acute: Oncorhynchus mykiss, LC_{50} = 40613 mg/L (96h) Long term: Long-term e xposure of fish is not co nsidered relevant as the substance is readily bio degradable.	Acute: Ceriodaphnia dubia, lC $_{50}$ = 18340 mg/L (48 h) Long term: Ceriodaphnia sp, NOEC =13020mg/L (7d)	Raphidocelis subcapitata, EC_{50} =19000 mg/L (96 h)

| Other

Endpoint	Component	Toxicological Information
Persistence and degradability	Propane-1,2-diol	Readily biodegradable in water
Bioaccumulative potential	Propane-1,2-diol	BCF=0.09
Mobility in soil	Propane-1,2-diol	Koc=2.9(20°C)
PBT/vPvB	Propane-1,2-diol	The substance is not PBT / vPvB

13 DISPOSAL CONSIDERATIONS

| GENERAL INFORMATION

Dispose in a safe manner in accordance with local/national regulations.

| DISPOSAL METHODS

Product: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.

14 TRANSPORT INFORMATION

Transport pictograph	No information available

Transport	Classification
Land transport (ADR/RID)	
UN Number	Not classified as dangerous goods
UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Classification code	No information available
Marine transport (IMDG)	
UN Number	Not classified as dangerous goods
UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
EMS No.	No information available
Remarks	No information available
Air transport (ICAO/IATA)	
UN Number	Not classified as dangerous goods

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UN proper shipping name	No information available
Transport hazard class(es)	No information available
Packing group	No information available
Classification code	No information available

15 REGULATORY INFORMATION

| International Chemical Inventory

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS
Propane-1,2-diol	Listed	Listed	Listed	Listed	Listed	Listed	Listed	Listed

| Note

EINECS	European Inventory of Existing Commercial Chemical Substances.
TSCA	United States Toxic Substances Control Act Inventory.
DSL	Canadian Domestic Substances List.
IECSC	Inventory of Existing Chemical Substances in China
NZIoC	New Zealand Inventory of Chemicals.
PICCS	Philippines Inventory of Chemicals and Chemical Substances.
KECI	Korea Existing Chemicals Inventory
AICS	Australia Inventory of Chemical Substances.

16 OTHER INFORMATION

Revision Date	2022/08/02
Reason for modification	-

REFERENCE

[10] IPCS - The International Chemical Safety Cards (ICSC), website:http://www.ilo.org/dyn/icsc/showcard.home
[11] HSDB - Hazardous Substances Data Bank, website: https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm
[12] IARC - International Agency for Research on Cancer, website: http://www.iarc.fr/
[13] eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en
[14] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple
[15] ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp
[16] ERG - Emergency Response Guidebook by U.S. Department of Transportation, website: http://www.phmsa.dot.gov/hazmat/library/erg
[17] Germany GESTIS-database on hazard substance, website: http://www.dguv.de/ifa/gestis/gestis- stoffdatenbank/index-2.jsp
[18] ECHA - European Chemicals Agency, website: https://echa.europa.eu/

ABBREVIATIONS AND ACRONYMS

CAS: Chemical Abstracts Service
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
IMDG: International Maritime Dangerous Goods
IATA: International Air Transportation Association
TWA: Time Weighted Average

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STEL: Short term exposure limit
LC_{50}: Lethal Concentration 50%
LD_{50}: Lethal Dose 50%
EC_{50}: Effective Concentration 50%

STATEMENT

This safety technical specification (SDS) is prepared according to Regulation (EC) No 1907/2006 and Regulation (EU) No 2015/830.The data collected are from authoritative international databases and provided by enterprises themselves. Other information is based on our current state of knowledge. We try to make sure all the information is correct. However, due to the diversity of information sources and the limitations of our knowledge, this document is for user reference only. Users should make independent judgments about the suitability of this information for their specific purposes. We are not liable for any loss, damage or expense arising from or in connection with the handling, storage, use or disposal of the Products.

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