



SAFETY DATA SHEET 28189 BRICK RED PASTE

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

1.1. Product identifier

Product name	28189 BRICK RED PASTE
Product number	61146
REACH registration notes	This product is not classified as hazardous, the information in this datasheet is given for guidance only.

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

Identified uses	Colourant
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	61146

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements	NC Not Classified
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2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

28189 BRICK RED PASTE**GLYCERINE****60-100%**

CAS number: 56-81-5

EC number: 200-289-5

Exempt -Annex V exempted by Article 2(7)

Acute Toxicity Estimate (oral):27200 mg/kg

Acute Toxicity Estimate (dermal):56750 mg/kg

Acute Toxicity Estimate (inhalation):> 2.75 mg/lDust/Mist

Classification

Not Classified

DOWCAL N**10-30%**

CAS number: 57-55-6

EC number: 200-338-0

REACH registration number: 01-
2119456809-23-XXXX

ATE: Acute Toxicity Estimate.Oral> 20000mg/kg

ATE: Acute Toxicity Estimate.Dermal> 2000mg/kg

ATE: Acute Toxicity Estimate.Inhalation317.042mg/l2hourDust/Mist

Classification

Not Classified

SYNTHETIC AMORPHOUS, PYROGENIC SILICA**5-10%**

CAS number: 7631-86-9

EC number: 231-545-4

REACH registration number: 01-
2119379499-16-XXXX

NanoformAcute Toxicity Estimate (oral):5000 mg/kg

Acute Toxicity Estimate (dermal):2000 mg/kg

Classification

Not Classified

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE**1-5%**

CAS number: 2611-82-7

EC number: 220-036-2

REACH registration number: 01-
2120033342-71-XXXX

Acute Toxicity Estimate (oral):> 8000 mg/kg

Classification

Not Classified

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS**<1%**

CAS number: 95193-83-2

EC number: 305-897-5

REACH registration number: 01-
2120752822-53-XXXX

Acute Toxicity Estimate (oral):> 2000 mg/kg

Acute Toxicity Estimate (dermal):> 2000 mg/kg

Classification

Not Classified

28189 BRICK RED PASTE

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT			<1%
CAS number: 3844-45-9	EC number: 223-339-8	REACH registration number: 01-2120740569-45-XXXX	
Acute Toxicity Estimate (oral):> 2000 mg/kg			

Classification

Not Classified

The full text for all hazard statements is displayed in Section 16.

Composition comments The data shown are in accordance with the latest EC Directives.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

Eye contact	May cause temporary eye irritation.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	When heated and in case of fire, toxic vapours/gases may be formed.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

5.3. Advice for firefighters

Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.
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28189 BRICK RED PASTE

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Avoid spilling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

GLYCERINE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

DOWCAL N

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust

Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Long-term exposure limit (8-hour TWA): WEL No std.

Short-term exposure limit (15-minute): WEL No std.

WEL = Workplace Exposure Limit.

Ingredient comments Observe any occupational exposure limits for the product or ingredients.

28189 BRICK RED PASTE**GLYCERINE (CAS: 56-81-5)**

DNEL Industry - Inhalation; Long term local effects: 56 mg/m³
 General population - Inhalation; Long term local effects: 33 mg/m³
 General population - Oral; Long term systemic effects: 229 mg/kg/day

PNEC - Fresh water; 0.885 mg/l
 - marine water; 0.0885 mg/l
 - Intermittent release; 8.85 mg/l
 - STP; 1000 mg/l
 - Soil; 0.141 mg/kg
 - Sediment (Freshwater); 3.3 mg/kg
 - Sediment (Marinewater); 0.33 mg/kg

DOWCAL N (CAS: 57-55-6)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Workers - Inhalation; Long term systemic effects: 168 mg/m³
 Workers - Inhalation; Long term local effects: 10 mg/m³
 General population - Inhalation; Long term systemic effects: 50 mg/m³
 General population - Inhalation; Long term local effects: 10 mg/m³

PNEC - Fresh water; 260 mg/l
 - marine water; 26 mg/l
 - Intermittent release; 183 mg/l
 - STP; 20000 mg/l
 - Sediment (Freshwater); 572 mg/kg
 - Sediment (Marinewater); 57.2 mg/kg
 - Soil; 50 mg/kg

SYNTHETIC AMORPHOUS, PYROGENIC SILICA (CAS: 7631-86-9)

Ingredient comments WEL = Workplace Exposure Limits

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE (CAS: 2611-82-7)

DNEL Workers - Inhalation; : 24.7 mg/m³
 Workers - Dermal; : 7 mg/kg/day
 General population - Inhalation; : 3.7 mg/m³
 General population - Dermal; : 2.5 mg/kg/day
 General population - Oral; : 2.5 mg/kg/day

PNEC Fresh water; 0.1 mg/l
 marine water; 0.01 mg/l
 STP; 10 mg/l
 Sediment (Freshwater); 0.392 mg/kg/day
 Sediment (Marinewater); 0.039 mg/kg/day
 Soil; 0.02 mg/kg/day

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS (CAS: 95193-83-2)

Ingredient comments WEL = Workplace Exposure Limits

28189 BRICK RED PASTE

DNEL	Workers - Inhalation; Long term systemic effects: 4.93 mg/m³ Workers - Dermal; Long term systemic effects: 1.4 mg/kg/day General population - Inhalation; Long term systemic effects: 0.87 mg/m³ General population - Dermal; Long term systemic effects: 0.5 mg/kg/day General population - Oral; Long term systemic effects: 0.5 mg/kg/day
PNEC	Fresh water; 0.1 mg/l marine water; 10 µg/l Sediment (Freshwater); 0.545 mg/kg Sediment (Marinewater); 54.5 µg/kg Soil; 50.2 µg/kg

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT (CAS: 3844-45-9)

Ingredient comments

No exposure limits known for ingredient(s).

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Tight-fitting safety glasses. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

No specific requirements are anticipated under normal conditions of use. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Paste.

28189 BRICK RED PASTE

Colour	Red.
Odour	No information available.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	No information available.
Flash point	No information available.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	No information available.
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	No information available.
Explosive properties	No information available.
Explosive under the influence of a flame	No information available.
Oxidising properties	No information available.
<u>9.2. Other information</u>	
Other information	Not determined.
Refractive index	No information available.
Particle size	No information available.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.

28189 BRICK RED PASTE

Volatile organic compound No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Not determined.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of the following substances: Carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) No information available.

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

Animal data No information available.

Serious eye damage/irritation

Serious eye damage/irritation No information available.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

28189 BRICK RED PASTE

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact May be slightly irritating to skin.

Eye contact May cause temporary eye irritation.

Toxicological information on ingredients.

GLYCERINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 27,200.0

Species Rat

ATE oral (mg/kg) 27,200.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 56,750.0

Species Guinea pig

ATE dermal (mg/kg) 56,750.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 2.75 mg/l, Inhalation, Dust/Mist, Rat

Skin corrosion/irritation

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro Based on available data the classification criteria are not met.

28189 BRICK RED PASTE

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Slightly irritating.

Eye contact May cause temporary eye irritation.

DOWCAL N

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 22,000.0

Species Rat

Notes (oral LD₅₀) This product has low toxicity. LD₅₀ > 20000 mg/kg, Oral, Rat

ATE oral (mg/kg) 22,000.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 317.042 mg/l, 2 hours, Dust/Mist Rat

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation May cause temporary eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

28189 BRICK RED PASTE

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig OECD 406 Not sensitising. Human

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties. Ames test Negative. OECD 473

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

Notes (oral LD₅₀) OECD 401

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

Notes (dermal LD₅₀) OECD 402

Skin corrosion/irritation

Animal data Not irritating.

28189 BRICK RED PASTE

Serious eye damage/irritation

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

Respiratory sensitisation

Respiratory sensitisation Not sensitising.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

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

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation Dust in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended. Prolonged and frequent contact may cause redness and irritation.

Eye contact Particles in the eyes may cause irritation and smarting.

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 8000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) No information available.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) No information available.

Skin corrosion/irritation

28189 BRICK RED PASTE

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

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

Respiratory sensitisation

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

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin contact May cause irritation.

Eye contact May cause temporary eye irritation.

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 10,000.0

Species Rat

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Mouse, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ 2000 mg/kg, Dermal, Rabbit

28189 BRICK RED PASTE

Skin corrosion/irritation

Animal data Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met. Not sensitising.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met. Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

General information The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Inhalation May cause respiratory system irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact Solid particles trapped behind the eyelid may cause abrasive damage.

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

Acute toxicity - inhalation

28189 BRICK RED PASTE

Notes (inhalation LC₅₀)	Based on available data the classification criteria are not met.
<u>Skin corrosion/irritation</u>	
Animal data	Not irritating. Rabbit OECD 404
<u>Serious eye damage/irritation</u>	
Serious eye damage/irritation	Not irritating. Rabbit OECD 405
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Based on available data the classification criteria are not met. Not sensitising.
<u>Skin sensitisation</u>	
Skin sensitisation	Based on available data the classification criteria are not met. Local Lymph Node Assay (LLNA) - Mouse: Not sensitising. OECD 429
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
<u>Carcinogenicity</u>	
Carcinogenicity	There is no evidence that the product can cause cancer.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction. Read-across data.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction. Read-across data.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	No information available.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	No information available.
<u>Aspiration hazard</u>	
Aspiration hazard	No information available.
Toxicokinetics	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Inhalation	Dust in high concentrations may irritate the respiratory system.
Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Solid particles trapped behind the eyelid may cause abrasive damage.

SECTION 12: Ecological information

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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28189 BRICK RED PASTE

Ecological information on ingredients.

GLYCERINE

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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DOWCAL N

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Ecotoxicity	The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.
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12.1. Toxicity

Toxicity	Not considered toxic to fish.
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Ecological information on ingredients.

GLYCERINE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC50, 96 hours: 54000 mg/l, Oncorhynchus mykiss (Rainbow trout) LC ₅₀ , 96 hour: >= 885 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 24 hours: > 10000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 2900 mg/l, Freshwater algae
Acute toxicity - microorganisms	EC ₅₀ , 3 hour: > 1000 mg/l, Activated sludge

DOWCAL N

28189 BRICK RED PASTE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout) OECD 203
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: 18340 mg/l, Daphnia magna Ceriodaphnia dubia (water flea) OECD 202
Acute toxicity - aquatic plants	ErC ₅₀ , 96 hours: 19000 mg/l, Pseudokirchneriella subcapitata OECD 201
Acute toxicity - microorganisms	NOEC, 18 hour: > 20000 mg/l, Pseudomonas putida
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 7 day: 13020 mg/l, Ceriodaphnia dubia (water flea)

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: >10000 mg/l, Brachydanio rerio (Zebra Fish) OECD 203
Acute toxicity - aquatic invertebrates	EL, EL ₅₀ , : > 1000 - 10000 mg/l, Daphnia magna OECD 202

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 1 g/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 100 mg/l, Daphnia magna

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: > 100 mg/l, Brachydanio rerio (Zebra Fish) OECD 203
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 100 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: > 100 mg/l, Pseudokirchneriella subcapitata OECD 201

28189 BRICK RED PASTE

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: > 220 - < 460 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 1000 mg/l, Daphnia magna
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: > 1000 mg/l, Activated sludge OECD 209
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: >=10 mg/l, Daphnia magna OECD 211

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

GLYCERINE

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 82%: 20 days OECD 301D - Degradation 63%: 28 day OECD 301C
Biological oxygen demand	0.87 g O ₂ /g substance

DOWCAL N

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation >81%: 28 days OECD 301F - Degradation 96%: 64 days
Biological oxygen demand	BOD5: 1170 mg O ₂ /l
Chemical oxygen demand	4700 mg O ₂ /l

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Persistence and degradability	The product contains mainly inorganic substances which are not biodegradable.
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TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Persistence and degradability	There are no data on the degradability of this product.
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28189 BRICK RED PASTE

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Persistence and degradability The product is not readily biodegradable.

Biodegradation - Degradation 2.8%: 28 days
OECD 301F

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Persistence and degradability The product is not readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

GLYCERINE

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: -1.76

DOWCAL N

Bioaccumulative potential The product is not bioaccumulating. BCF: < 0.09, Estimated value.

Partition coefficient log Pow: -1.07

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient No information available.

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient log Pow: -2.267

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient log Pow: -1.548

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Bioaccumulative potential The product does not contain any substances expected to be bioaccumulating.

Partition coefficient No information available.

28189 BRICK RED PASTE

12.4. Mobility in soil

Mobility Not determined.

Ecological information on ingredients.

GLYCERINE

Mobility The product is soluble in water.

DOWCAL N

Mobility The product is soluble in water.

Adsorption/desorption coefficient - Koc: 2.9 @ 20°C - Log Koc: 0.46 @ 20°C

Henry's law constant 0.00566 atm m³/mol @ 12°C

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Mobility Slightly soluble in water.

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Mobility The product is soluble in water.

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Mobility The product is soluble in water.

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Mobility The product is soluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

GLYCERINE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

DOWCAL N

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

28189 BRICK RED PASTE

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Ecological information on ingredients.

GLYCERINE

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

DOWCAL N

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SYNTHETIC AMORPHOUS, PYROGENIC SILICA

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

TRISODIUM 1-(1-NAPHTHYLAZO)-2-HYDROXYNAPHTHALENE-4',6,8-TRISULPHONATE

Cod 13606.2g/g

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

1H-INDENE-1,3(2H)-DIONE, 2-(2-QUINOLINYL)-, SULFONATED, SODIUM SALTS

28189 BRICK RED PASTE

Cod 472.7g/g

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

DIHYDROGEN (ETHYL)[4-[4-[ETHYL(3-SULPHONATOBENZYL)]AMINO]-2'-SULPHONATOBENZHYDRYLIDENE]CYCLOHEXA-2,5-DIEN-1-YLIDENE](3-SULPHONATOBENZYL)AMMONIUM, DISODIUM SALT

Cod 933.1g/g

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste should be treated as controlled waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78
and the IBC Code**

SECTION 15: Regulatory information

28189 BRICK RED PASTE

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

28189 BRICK RED PASTE

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

Classification abbreviations and acronyms

Acute Tox. = Acute toxicity
 Aquatic Acute = Hazardous to the aquatic environment (acute)
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)

Key literature references and sources for data

Supplier's information.

Classification procedures according to Regulation (EC) 1272/2008

Not classified.: Calculation method.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

06/05/2023

28189 BRICK RED PASTE

Version number	2.000
Supersedes date	04/11/2020
SDS number	61146
SDS status	Approved.
Signature	Lisa Bland

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Product Application Policy

To whom it may concern

Non-Supported Applications of Propylene Glycols (PGs)

For reasons of health and safety, regulatory compliance, and in accordance with internal policies **Univar Solutions**, will NOT supply Propylene Glycols (PGs) in a number of specific applications relating to pharmaceuticals, medicines, tobacco and tobacco products, marijuana products, food, feed, and dietary supplements. In order to maintain a high level of awareness amongst the customers, sales agents and distributors (including re-sellers and re-packagers) of **Univar Solutions**, we are writing to remind you of the non-supported applications for the Propylene Glycols (PGs). The use of such products is subject to the user's assessment of suitability, and compliance for its particular supplier-supported use. **Univar Solutions** will not support the applications listed in Annex 1 of this document.

Background

Based on a number of concerns and policies, including regulations to restrict product use, inappropriate exposure or contact and internal policies on specific application, **Univar Solutions** will not support Propylene Glycols (PGs) in the applications specified in Annex 1. We will not knowingly sample or sell these products for use in these non-supported applications, and will exit sales if necessary to support this position; however, we will make every effort to transition customers to appropriate products where possible.

General Non-Supported Applications

Product Scope:

All PG Products

The following identifies the applications that are generally, not supported by **Univar Solutions** for any Propylene Glycol (PG) product:

- Generation of artificial smoke/theatrical fogs/mists/artificial snow
- For use in the production of tobacco, the manufacture of tobacco products, the manufacture of electronic cigarettes or the manufacture of marijuana products
- Use as an active in pesticides¹
- Use as heat transfer fluids without inhibitors, including as an ingredient in fluids for warming or cooling foods or beverages or for heating an enclosed space where personnel exposure is possible²
- Manufacture of munitions or chemical weapons
- Ingredient in cat food

Notes

¹ **Univar Solutions** has not registered any PG product under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) for use as an active ingredient in pesticide formulas.

² Contact the **Univar Solutions** for properly inhibited PG-based fluids for heat transfer applications.

Univar Solutions does not provide samples of or knowingly sell any PG product for use in any General Non-Supported Application, unless otherwise agreed to in writing.

Technical or Industrial Grade Non-Supported Applications

Product Scope:

All Technical and Industrial PG grades, including, but not limited to:

- PG Industrial Grade (PGI)
- PG Technical Grade (PG TG)
- Dipropylene Glycol Regular Grade (DPG)
- Tripropylene Glycol Regular Grade (TPG)

- Tripropylene Glycol Acrylate Grade (TPG Ac)
- PG-Highers

The following identifies the applications that are NOT supported (“Technical or Industrial Grade Non-Supported Applications”) by **Univar Solutions** for any technical or industrial grade PG product:

- Any sensitive applications, including, but not limited to, pharmaceutical, direct and indirect food contact, cosmetics, personal care, animal feed, and children’s toys.
- All applications listed previously as General Non-Supported Applications

Univar Solutions does not provide samples of or knowingly sell any PG product for use in any Technical or Industrial Grade Non-Supported Application, unless otherwise agreed to in writing.

Specialty Grade Supported Applications

The following section identifies certain sensitive applications that are supported (“Specialty Grade Supported Applications”) by **Univar Solutions** for specialty grade products^{3,4}

Product Scope:

- Propylene Glycol USP/EP
- Propylene Glycol USP/EP (PG USP/EP)

is supported by **Univar Solutions** for the following applications:

- Pharmaceutical excipients⁵,
- direct and indirect food contact,
- beverage,
- cosmetics,
- personal care applications and children’s toys,
- animal feed (except cat food)⁶

Product Scope:

- Dipropylene Glycol LO+ Grade (DPG LO+)

is supported by **Univar Solutions** for the following applications:

- Indirect food contact,
- Cosmetics/personal care and
- Children’s toys

Product Scope:

- Propylene Glycol Animal Feed (PG AF)

is supported by **Univar Solutions** for the following applications

- Animal feed (except cat food)⁶

Notes

³ Re-packaging any specialty grade PG product for re-sale requires prior written approval by **Univar Solutions**.

⁴ Specialty grade PG product names may vary by region.

⁵ **Univar Solutions** does not test any PG USP/EP product for suitability in human parenteral applications (i.e., applications intended for humans where the drug formulation is administered not through the gastrointestinal tract, but is typically administered as an injection or infusion) and, therefore, does not support sales into these applications, unless otherwise agreed to in writing. **Univar Solutions** does not apply Active Pharmaceutical Ingredient (“API”) Good Manufacturing Practice (GMP) and, therefore, does not support the use of any PG USP/EP product as an API, unless otherwise agreed to in writing.

⁶ Where PG AG is not available, PG USP/EP is the PG product supported for animal feed (except cat food).

In the event that a customer is using a PG product that is contrary to the information provided above, **Univar Solutions** reserves the right to exit product sales to that customer.

Univar Solutions strongly encourage their customers to review both their manufacturing processes and their applications of the aforementioned PG products from the standpoint of human health and environmental quality to ensure that such products are used only in applications for which they are intended or tested. To enter into new applications beyond the traditional standard use applications, contact your **Univar Solutions** representative to review the specific application with our supplier. As use conditions and applicable laws may differ from one location to another and may change with time, when **Univar Solutions** supports an application, **Univar Solutions** does not warrant and is not responsible for the use in such application.

Please note **Univar Solutions** warrants that the products supplied meet the agreed specification but does not offer warranties as to fitness for purpose. You, as a user, must rely on your own testing in order to ascertain fitness for your intended purpose. Should you have any questions or require further information, please contact your **Univar Solutions** representative.

Whilst this policy is distributed with the SDS, it is to be considered as a separate document.

Yours sincerely,
Univar Solutions
Product Stewardship