

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

1.1. Product identifier

Product Name GRFAB47 Fabsil Universal Protector 1L
Safety data sheet number 06086
Unique Formula Identifier (UFI) WQJ1-GKQJ-S504-R0VM

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

Recommended use Exterior surface coating

Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

Grangers International Ltd
 Enterprise Way
 Duckmanton
 Derbyshire
 S44 5FD
 United Kingdom

EU Authorised Representative:
 Authorised Rep Compliance Ltd
 Ground Floor, 71 Lower Baggot Street
 Dublin
 DO2 P593
 Ireland
 For further information, please contact

E-mail address info@grangersinternational.co.uk

1.4. Emergency telephone number

Emergency Telephone TEL: +44 (0) 1773 521521 IRELAND TEL: 00353 15133758

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids	Category 3 H226
Serious eye damage/eye irritation	Category 2 H319
Aspiration hazard	Category 1 H304

2.2. Label elements



Signal word
Danger

Hazard statements

H226 - Flammable liquid and vapor.
H319 - Causes serious eye irritation.
H304 - May be fatal if swallowed and enters airways.

Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapors/spray.
P264 - Wash skin thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P331 - Do NOT induce vomiting.
P337 + P313 - If eye irritation persists: Get medical advice/attention.
P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or regular foam to extinguish.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents as hazardous waste in accordance with local/regional/national/international regulations.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical equipment.
P242 - Use non-sparking tools.
P243 - Take action to prevent static discharges.

2.3. Other hazards

No information available.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics -	50 - <100%		918-481-9	Asp. Tox. 1 (H304)
Zirconium butanolate 1071-76-7	0.25 - <0.5%		213-995-3	Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) STOT SE 3 (H335) Eye Dam. 1 (H318)
butan-1-ol 71-36-3	0.025 - <0.25%		(603-004-00-6) 200-751-6	Flam. Liq. 3 (H226) STOT SE 3 (H335) (H336) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)
VI SORB UV6 POWDER 1843-05-6	0.025 - <0.25%		217-421-2	Aquatic Chronic 3 (H412) Skin Sens. 1 (H317)

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

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Zirconium butanolate 1071-76-7	No data available	4200	No data available	No data available	No data available
butan-1-ol 71-36-3	700	3402	No data available	24.2519	No data available
VI SORB UV6 POWDER 1843-05-6	10000	10000	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.
Ingestion	Do NOT induce vomiting. Get medical attention.

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

Symptoms	No information available.
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Effects of Exposure See Section 11 for additional Toxicological Information.

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

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Alcohol resistant foam. Carbon dioxide (CO₂). Dry chemical.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide.

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation. Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and inhalation of vapors. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up Following product recovery, flush area with water. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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

6.4. Reference to other sections

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

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Store in a dry place. Store in a closed container. Store in a cool, well ventilated area.

Storage class (TRGS 510) Storage class 3.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters**

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

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Zirconium butanolate 1071-76-7	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³
butan-1-ol 71-36-3	-	TWA: 50 ppm TWA: 150 mg/m ³ STEL 200 ppm STEL 600 mg/m ³	TWA: 20 ppm TWA: 62 mg/m ³ D*	STEL: 150 mg/m ³ TWA: 100 mg/m ³	STEL: 50 ppm STEL: 154 mg/m ³ *
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Zirconium butanolate 1071-76-7	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 1 mg/m ³
butan-1-ol 71-36-3	-	TWA: 300 mg/m ³ Ceiling: 600 mg/m ³ D*	Ceiling: 50 ppm Ceiling: 150 mg/m ³ H*	TWA: 15 ppm TWA: 45 mg/m ³ STEL: 30 ppm STEL: 90 mg/m ³ A*	TWA: 50 ppm TWA: 150 mg/m ³ STEL: 75 ppm STEL: 230 mg/m ³ iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Zirconium butanolate 1071-76-7	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 20 mg/m ³
butan-1-ol 71-36-3	STEL: 50 ppm STEL: 150 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Peak: 100 ppm Peak: 310 mg/m ³	TWA: 100 ppm TWA: 300 mg/m ³ STEL: 100 ppm STEL: 300 mg/m ³ *	TWA: 45 mg/m ³ STEL: 90 mg/m ³ b*
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Zirconium butanolate 1071-76-7	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	-	-
butan-1-ol 71-36-3	TWA: 20 ppm STEL: 60 ppm	-	TWA: 20 ppm TWA: 61 mg/m ³	TWA: 10 mg/m ³	Ceiling: 30 ppm Ceiling: 90 mg/m ³

	Sk*				TWA: 15 ppm TWA: 45 mg/m ³ O*
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Zirconium butanolate 1071-76-7	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³
butan-1-ol 71-36-3	-	-	-	Ceiling: 25 ppm Ceiling: 75 mg/m ³ H*	STEL: 150 mg/m ³ TWA: 50 mg/m ³ skóra*
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Zirconium butanolate 1071-76-7	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 1 mg/m ³	TWA: 1 mg/m ³ STEL: 1 mg/m ³	TWA: 5 mg/m ³ STEL: 10 mg/m ³
butan-1-ol 71-36-3	TWA: 20 ppm	TWA: 33 ppm TWA: 100 mg/m ³ STEL: 66 ppm STEL: 200 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ Ceiling: 310 mg/m ³	TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³	TWA: 20 ppm TWA: 61 mg/m ³ STEL: 50 ppm STEL: 154 mg/m ³
Chemical name	Sweden		Switzerland		United Kingdom
Zirconium butanolate 1071-76-7	-		TWA: 5 mg/m ³		TWA: 5 mg/m ³ STEL: 10 mg/m ³
butan-1-ol 71-36-3	Bindande KGV: 30 ppm Bindande KGV: 90 mg/m ³ NGV: 15 ppm NGV: 45 mg/m ³ H*		TWA: 100 ppm TWA: 310 mg/m ³ STEL: 100 ppm STEL: 310 mg/m ³		STEL: 50 ppm STEL: 154 mg/m ³ Sk*

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

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
butan-1-ol 71-36-3	-	-	-	10 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) end of shift) 2 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) before beginning of next shift) 2 mg/g Creatinine - BAT (at the beginning of the next shift) urine 10 mg/g Creatinine - BAT (end of exposure or end of shift) urine	10 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) end of shift) 2 mg/g Creatinine (urine - 1-Butanol (after hydrolysis) before beginning of next shift)
Chemical name	Latvia	Luxembourg	Romania	Slovakia	
butan-1-ol 71-36-3	-	-	-	2 mg/g creatinine (urine - n-Butyl alcohol after all work shifts) 10 mg/g creatinine (urine - n-Butyl alcohol end of exposure or work shift)	
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
butan-1-ol 71-36-3	2 mg/g Creatinine - urine (1-Butanol (after hydrolysis)) - before the work shift	-	10 mg/g creatinine (urine - n-Butanol end of shift) 2 mg/g creatinine (urine	-	

	10 mg/g Creatinine - urine (1-Butanol (after hydrolysis)) - at the end of the work shift		- n-Butanol before subsequent shift or 16 hour)	
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Derived No Effect Level (DNEL) - Workers No information available

Chemical name	Oral	Dermal	Inhalation
Zirconium butanolate 1071-76-7	-	-	56.6 mg/m ³ [4] [6]
butan-1-ol 71-36-3	-	-	310 mg/m ³ [5] [6]
VI SORB UV6 POWDER 1843-05-6	-	1.88 mg/kg bw/day [4] [6]	6.61 mg/m ³ [4] [6]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
butan-1-ol 71-36-3	1.5625 mg/kg bw/day [4] [6]	-	55.357 mg/m ³ [4] [6] 155 mg/m ³ [5] [6]
VI SORB UV6 POWDER 1843-05-6	0.94 mg/kg bw/day [4] [6]	-	1.63 mg/m ³ [4] [6]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Zirconium butanolate 1071-76-7	0.129 mg/L	1.29 mg/L	0.0129 mg/L	0.129 mg/L	-
butan-1-ol 71-36-3	0.082 mg/L	2.25 mg/L	0.0082 mg/L	-	-
VI SORB UV6 POWDER 1843-05-6	0.052 mg/L	0.52 mg/L	0.0052 mg/L	0.052 mg/L	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Zirconium butanolate 1071-76-7	0.011 mg/kg sediment dw	0.001 mg/kg sediment dw	6.5 mg/L	-	-
butan-1-ol 71-36-3	0.324 mg/kg sediment dw	0.0324 mg/kg sediment dw	2476 mg/L	0.0166 mg/kg soil dw	-
VI SORB UV6 POWDER 1843-05-6	100 mg/kg sediment dw	10 mg/kg sediment dw	1 mg/L	66.8 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Appropriate eye/face protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Hand protection Appropriate hand protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. Nitrile rubber.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective nitrile rubber gloves	>0.3mm	

Skin and body protection Appropriate skin and body protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance clear yellowish liquid
Color Colourless to pale yellow
Odor Solvent.
Odor threshold

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	149 - 213	149-213°C
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	40°C	Closed cup
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	0.78 @ 20°C	None known
Bulk density	No data available	
Liquid Density	No data available	

Relative vapor density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Keep away from open flames, hot surfaces and sources of ignition. Heat, flames and sparks.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong oxidizing agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. May cause drowsiness or dizziness.

Eye contact Specific test data for the substance or mixture is not available. May cause irritation.

Skin contact Specific test data for the substance or mixture is not available. Repeated exposure may

cause skin dryness or cracking.

Ingestion

Specific test data for the substance or mixture is not available. May cause lung damage if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Zirconium butanolate	-	> 4200 mg/kg (Rabbit)	= 6531 ppm (Rat) 4 h
butan-1-ol	= 700 mg/kg (Rat)	= 3402 mg/kg (Rabbit)	> 8000 ppm (Rat) 4 h
VI SORB UV6 POWDER	> 10000 mg/kg (Rat)	> 10 g/kg (Rabbit)	-

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity This product does not contain any known or suspected reproductive hazards.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
butan-1-ol	EC50: >500mg/L (96h, Desmodesmus subspicatus) EC50: >500mg/L (72h, Desmodesmus subspicatus)	LC50: 1730 - 1910mg/L (96h, Pimephales promelas) LC50: =1740mg/L (96h, Pimephales promelas) LC50: 100000 - 500000µg/L (96h, Lepomis macrochirus) LC50: =1910000µg/L (96h, Pimephales promelas)	-	EC50: =1983mg/L (48h, Daphnia magna) EC50: 1897 - 2072mg/L (48h, Daphnia magna)
VI SORB UV6 POWDER	EC50: >100mg/L (72h, Desmodesmus subspicatus)	LC50: >100mg/L (96h, Brachydanio rerio)	-	EC50: =52mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Chemical name	Partition coefficient
Zirconium butanolate	0.88
butan-1-ol	1
VI SORB UV6 POWDER	6

12.4. Mobility in soil

Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Zirconium butanolate	The substance is not PBT / vPvB
butan-1-ol	The substance is not PBT / vPvB
VI SORB UV6 POWDER	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	UN1268
14.2 UN proper shipping name	Petroleum distillates, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN1268, Petroleum distillates, n.o.s., 3, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	A3
ERG Code	3L

IMDG

14.1 UN number or ID number	UN1268
14.2 UN proper shipping name	Petroleum distillates, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN1268, Petroleum distillates, n.o.s., 3, III, (40°C c.c.)
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	223, 955
EmS-No.	F-E, S-E
14.7 Maritime transport in bulk according to IMO instruments	

RID

14.1 UN number or ID number	UN1268
14.2 UN proper shipping name	Petroleum distillates, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN1268, Petroleum distillates, n.o.s., 3, III
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
Classification code	F1

ADR

14.1 UN number or ID number	UN1268
14.2 UN proper shipping name	Petroleum distillates, n.o.s.
14.3 Transport hazard class(es)	3
14.4 Packing group	III
Description	UN1268, Petroleum distillates, n.o.s., 3, III, (D/E)
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	664

Classification code F1
Tunnel restriction code (D/E)

SECTION 15: Regulatory information

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

Chemical name	French RG number
butan-1-ol - 71-36-3	RG 84

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
butan-1-ol - 71-36-3	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDSL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals

NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

Full text of H-Statements referred to under section 3

- H226 - Flammable liquid and vapor
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H318 - Causes serious eye damage
- H319 - Causes serious eye irritation
- H335 - May cause respiratory irritation

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend Section 8: Exposure controls/personal protection

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

Key literature references and sources for data used to compile the SDS

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
- European Chemicals Agency (ECHA) (ECHA_API)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AEGl(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- U.S. Environmental Protection Agency High Production Volume Chemicals
- Food Research Journal
- Hazardous Substance Database
- International Uniform Chemical Information Database (IUCLID)
- National Institute of Technology and Evaluation (NITE)
- Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- NIOSH (National Institute for Occupational Safety and Health)
- National Library of Medicine's ChemID Plus (NLM CIP)
- National Library of Medicine's PubMed database (NLM PUBMED)
- National Toxicology Program (NTP)
- New Zealand's Chemical Classification and Information Database (CCID)
- Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
- Organization for Economic Co-operation and Development High Production Volume Chemicals Program
- Organization for Economic Co-operation and Development Screening Information Data Set
- World Health Organization

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End of Safety Data Sheet