

Safety Data Sheet

according to UK REACH Regulation

Film release agent PVA

Revision date: 26.08.2021

Product code: 165110

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Film release agent PVA

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

Lubricants, greases, release products

Uses advised against

Consumer uses: Private households (= general public = consumers). Areas of use [SU]: 21 Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

Company name: R&G Faserverbundwerkstoffe GmbH

Composite Technology

Street: Im Meißel 7 - 13

Place: D-71111 Waldenbuch

Post-office box: 1145

D-71107 Waldenbuch

Telephone: +49 (0)7157 5304-60

Telefax: +49 (0)7157 5304-70

e-mail: info@r-g.de

Internet: www.r-g.de

Responsible Department: Management

1.4. Emergency telephone number: Vergiftungs-Informations-Zentrale Freiburg

Tel: +49 (0)761 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Highly flammable liquid and vapour.

Flammable liquid and vapour.

Toxic if swallowed, in contact with skin or if inhaled.

Causes serious eye irritation.

Causes damage to organs.

May cause respiratory irritation.

May cause drowsiness or dizziness.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

propan-2-ol; isopropyl alcohol; isopropanol

butan-2-ol

Signal word: Danger**Pictograms:****Hazard statements**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

H370 Causes damage to organs.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P271 Use only outdoors or in a well-ventilated area.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

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easy to do. Continue rinsing.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Chemical characterization**

Lösung von Wirkstoffen in einer Wasser-Alkohol-Mischung

Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	GHS Classification	
67-63-0	2-Propanole (Isopropanole)	40 - < 45 %
	200-661-7	01-2119457558-25
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
78-92-2	butan-2-ol	5 - < 10 %
	201-158-5	603-127-00-5
	01-2119475146-36	
	Flam. Liq. 3, Eye Irrit. 2, STOT SE 3, STOT SE 3; H226 H319 H335 H336	
67-56-1	methanol	< 0,25 %
	200-659-6	603-001-00-X
	01-2119433307-44	
	Flam. Liq. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, STOT SE 1; H225 H331 H311 H301 H370	

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
67-63-0	200-661-7	2-Propanole (Isopropanole)	40 - < 45 % %
		inhalation: LC50 = > 25 mg/l (vapours); dermal: LD50 = 16400 mg/kg; oral: LD50 = 5840 mg/kg	
78-92-2	201-158-5	butan-2-ol	5 - < 10 % %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 2054 mg/kg	
67-56-1	200-659-6	methanol	< 0,25 % %
		inhalation: LC50 = > 115,9 mg/l (vapours); inhalation: ATE = 0,5 mg/l (dusts or mists); dermal: LD50 = 17100 mg/kg; oral: LD50 = > 2528 mg/kg STOT SE 1; H370: >= 10 - 100 STOT SE 2; H371: >= 3 - < 10	

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Remove affected person from the danger area and lay down. Take off immediately all contaminated clothing and wash it before reuse. Put victim at rest, cover with a blanket and keep warm. Put victim at rest, cover with a blanket and keep warm. Move a vomiting patient lying on his back into a stable position on his side. Artificial respiration on respiratory arrest. If unconscious, storage and transport in stable lateral position. Remove affected person from the danger area and lay down. Call a doctor if you feel unwell. If unconscious but breathing normally, place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. In the event of cardiac arrest immediately perform cardiopulmonary resuscitation. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Remove victim out of the danger area. Provide fresh air. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). The typical signs are headaches, dizziness, fatigue, muscle weakness, numbness, and in serious cases unconsciousness. In the case of lung irritation: Primary treatment using corticoide spray, eg. Auxiloson spray, Pulmicort-dosage-spray. (Auxiloson and Pulmicort are registered trademarks.) Consult a doctor immediately in the case of inhaling spray mist and show him packing or label.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner. In case of skin irritation, seek medical treatment. Take off contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove any existing contact lenses if possible. Continue rinsing. If present: Initial treatment with Diphoterine. (Diphoterine is a registered trademark). Protect uninjured eye.

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After ingestion

Rinse mouth thoroughly with water. Do NOT induce vomiting. Give nothing to eat or drink. Never give anything by mouth to an unconscious person or a person with cramps. Call a physician immediately.

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

The following symptoms may occur:

Cough
Dyspnoea
Vomiting
Dizziness
Dizziness
Inebriation
Unconsciousness

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

Treat symptomatically.
Regulation of the blood circulation, possible shock treatment.
Where appropriate artificial ventilation.
If necessary, a suitable eye rinsing device must be provided. Use eye rinsing liquid at room temperature if possible.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water, Water spray jet, Sand, Carbon dioxide (CO₂), Foam, Extinguishing powder.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Combustible. Vapours can form explosive mixtures with air.
In case of fire may be liberated: Carbon dioxide (CO₂), Carbon monoxide

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter drains or water courses. Do not allow to enter subsoil/soil. Ensure waste is picked up and stored safely. Knock down gases/vapors/mist with water spray. In case of gas leakage or penetration into water, soil or sewage system, notify competent authorities. Eliminate leaks, if safe to do so. Remove container from the discharge area. Ensure that leaks can be contained, e.g. with the aid of drip pans or lowered areas. Prevent surface expansion (e.g. by containment or oil booms). Remove from water surface (e.g., skim, vacuum). Cover sewer system.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

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

Measures to prevent aerosol and dust formation: All work procedures shall generally be designed to minimize the following: Inhalation of vapors or mists/aerosols. Eye contact Skin contact Technical ventilation of the workplace Vapors are heavier than air. Provide room air extraction at floor level. During filling, decanting and dosing operations as well as during sampling, use if possible: Spray-protected, grounded devices Devices with local extraction Use in an extraction booth with integrated air filter. Use only in ventilated spray booths. Recirculation of the extracted air is not recommended. Always close containers tightly after removing product.

Advice on protection against fire and explosion

Fire protection measures: The product is: highly flammable. Formation of flammable vapors is possible at temperatures

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above: < +3 °C (flash point - 15 °C). Vapors may form explosive mixtures with air. Re-ignition possible at great distance. Vapors are heavier than air, spread on the ground and form explosive mixtures with air. Due to explosion hazard, prevent vapors from entering basements, sewers and pits. Provide grounding for containers, apparatus, pumps, and exhaust systems. Use explosion-proof systems, apparatus, extraction systems, equipment, etc. Use low-sparking tools. Take measures against electrostatic charges. Flammable vapors may accumulate in the vapor space of closed systems. Use material only in locations where open light, fire, and other sources of ignition are kept away. Keep away from heat sources (e.g. hot surfaces), sparks and open flames. Usual measures of preventive fire protection. Fire extinguishers of fire class B Do not empty containers under pressure. Wear antistatic shoes and work clothes.

Further information on handling

Environmental protection measures: Manholes and sewers must be protected against penetration of the product. Transfer wash water into closed containers. Provide containment vessels, e.g. bottom pan without drain. To limit emissions from volatile organic compounds (VOC), solvent vapors should be subjected to a (filters, gas scrubbers, incineration) (BGR 121). Notes on general industrial hygiene: Wear personal protective equipment (see section 8). Minimum standards for protective measures when handling working substances are listed in TRGS 500. General industrial hygiene measures. The usual precautionary measures for handling chemicals should be observed. Work areas should be designed so that they can be cleaned at any time. Floors, walls and other surfaces in the hazardous area should be cleaned regularly. Clean spray booth and fume hood after each product change. Do not eat, drink, smoke or snort at the workplace. Thoroughly clean skin immediately after handling the product. Used work clothing should not be worn outside the work area.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage

Do not store together with: Storage class: 1 (Explosive hazardous materials) 2 A (Gases (excluding aerosol dispensers and lighters)) 4.1 A (Other explosive hazardous substances) 4.1 B (Flammable solids) 4.2 A (Pyrophoric or self-heating hazardous substances) 4.3 (Hazardous substances which, in contact with water, emit flammable gases) 5.1 A (Highly oxidizing hazardous substances) 5.1 C (Ammonium nitrate and preparations containing ammonium nitrate) 5.2 (Organic peroxides and self-reactive hazardous substances) 6.1 B (Non-flammable, acutely toxic cat. 1 and 2 / very toxic hazardous substances) 6.2 (Infectious substances) 7 (Radioactive substances)

Further information on storage conditions

Technical measures and storage conditions: The valid water and building regulations must be observed (WHG, AwSV, state building regulations). Heating leads to pressure increase and bursting hazard. Keep away from sources of ignition - Do not smoke. Keep container in a cool, well-ventilated place. Keep container tightly closed. Protect container from damage. Ensure adequate ventilation of storage area. Store small quantities in suitable hazardous material cabinets. Do not store outdoors. Observe the instructions on the label.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
78-92-2	Butan-2-ol	100	308		TWA (8 h)	WEL
		150	462		STEL (15 min)	WEL
67-56-1	Methanol	200	266		TWA (8 h)	WEL
		250	333		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	2-Propanole (Isopropanole)			
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
78-92-2	butan-2-ol			
Worker DNEL, long-term		dermal	systemic	405 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	212 mg/m ³
Consumer DNEL, long-term		dermal	systemic	203 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	52 mg/m ³
Consumer DNEL, long-term		oral	systemic	15 mg/kg bw/day
67-56-1	methanol			
Worker DNEL, long-term		inhalation	systemic	260 mg/m ³
Worker DNEL, long-term		inhalation	local	260 mg/m ³
Worker DNEL, long-term		dermal	systemic	40 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	50 mg/m ³
Consumer DNEL, long-term		inhalation	local	50 mg/m ³
Consumer DNEL, long-term		dermal	systemic	8 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	8 mg/kg bw/day

PNEC values

CAS No	Substance	Environmental compartment	Value
67-63-0	2-Propanole (Isopropanole)		
Marine water			140,9 mg/l
Freshwater sediment			196,19 mg/kg
Marine sediment			196,19 mg/kg
Secondary poisoning			1000 mg/kg
Micro-organisms in sewage treatment plants (STP)			761 mg/l
Soil			11,58 mg/kg
78-92-2	butan-2-ol		
Freshwater			47,1 mg/l
Marine water			47,1 mg/l
Freshwater sediment			196,19 mg/kg
Marine sediment			196,19 mg/kg
Secondary poisoning			1000 mg/kg
Micro-organisms in sewage treatment plants (STP)			761 mg/l
Soil			11,58 mg/kg
67-56-1	methanol		
Freshwater			20,8 mg/l
Marine water			2,08 mg/l
Freshwater sediment			77 mg/kg
Marine sediment			7,7 mg/kg
Soil			100 mg/kg

8.2. Exposure controls

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**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

If required according to risk assessment: Suitable eye protection: Frame goggles with side protection (DIN EN 166, BGR 192, ZH 1/703 - Use of eye and face protection). Recommended eye protection brands: UVEX I-VO / UVEX I-3 / UVEX SUPER OTG. Or comparable makes from other companies.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable gloves type

Wearing time with permanent contact > 480min.

FKM (fluoro rubber) - Thickness of the glove material: 0,7mm

Butyl caoutchouc (butyl rubber) - Thickness of the glove material: 0,7mm

NBR (Nitrile rubber) - Thickness of the glove material: 0,4mm

Wearing time with occasional contact (splashes): > 60min.

Disposable gloves: NBR (Nitrile rubber) - Thickness of the glove material: 0,2mm

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Combination filtering device A1P1/A2P2

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state: viscous
 Colour: colourless
 Odour: characteristic

pH-Value (at 20 °C):

Test method
 6,5 DIN 19268

Changes in the physical state

Melting point/freezing point: not determined

Boiling point or initial boiling point and boiling range: > 82 °C

Flash point: 18 °C DIN EN ISO 13736

Flammability

Solid: not applicable

Gas: not applicable

Lower explosion limits: 1,4 vol. %

Upper explosion limits: 12 vol. %

Auto-ignition temperature: > 390 °C

Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

Not oxidising.

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Vapour pressure: (at 20 °C)	< 41 hPa
Vapour pressure: (at 50 °C)	< 225 hPa
Density (at 20 °C):	0,94 g/cm ³ DIN 51757
Water solubility: (at 20 °C)	easily soluble
Solubility in other solvents	
mixable with most organic solvent cleaners : Alcohol Aldehyde Ketone	
Partition coefficient n-octanol/water:	not determined
Viscosity / kinematic: (at 40 °C)	36 mm ² /s DIN 53015
Flow time: (at 23 °C)	194 s 3 DIN EN ISO 2431
Relative vapour density: (at 25 °C)	~ 2.1 (Luft=1)
Evaporation rate:	not determined

9.2. Other information

Solid content: not determined

SECTION 10: Stability and reactivity**10.1. Reactivity**

The product is chemically stable under recommended conditions of storage, use and temperature.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidising agent, Alkali metals, Aluminium, Acid chlorides, inorganic

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Oxidising agent, Alkali metals, Aluminium, Acid chlorides, inorganic

10.6. Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	2-Propanole (Isopropanole)				
	oral	LD50 mg/kg	5840	Rat	ECHA OECD 401
	dermal	LD50 mg/kg	16400	Rabbit	ECHA OECD 402
	inhalation vapour	LC50	> 25 mg/l	Rat	Supplier OECD 402
78-92-2	butan-2-ol				
	oral	LD50 mg/kg	2054	Rat	ECHA OECD 423
	dermal	LD50 mg/kg	> 2000	Rat	ECHA OECD 402
67-56-1	methanol				
	oral	LD50 mg/kg	> 2528	Rat	ECHA OECD 401
	dermal	LD50 mg/kg	17100	Rabbit	ECHA
	inhalation (4 h) vapour	LC50 mg/l	> 115,9	Rat	ECHA
	inhalation aerosol	ATE	0,5 mg/l		

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Irritation and corrosivity

Causes serious eye irritation.

Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information**12.1. Toxicity**

According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment".

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-63-0	2-Propanole (Isopropanole)					
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas (fathead minnow)	ECHA	OECD 203
	Acute algae toxicity	ErC50 mg/l > 1800	96 h	Scenedesmus quadricauda	ECHA	
	Acute crustacea toxicity	EC50 mg/l 10000	48 h	Daphnia magna	ECHA	OECD 202
	Algae toxicity	NOEC 1800 mg/l	7 d	Scenedesmus quadricauda	ECHA	
	Acute bacteria toxicity	(> 1050 mg/l)	3 h	Pseudomonas putida	ECHA	DIN 38412 p8
78-92-2	butan-2-ol					
	Acute fish toxicity	LC50 3670 mg/l	96 h	Pimephales promelas	GESTIS	
67-56-1	methanol					
	Acute fish toxicity	LC50 mg/l 15400	96 h	Lepomis macrochirus (Bluegill)	ECHA	EPA-660/3-75-009
	Acute algae toxicity	ErC50 mg/l 22000	96 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 mg/l 18260	48 h	Daphnia magna	ECHA	OECD 202
	Fish toxicity	NOEC mg/l 446,7	28 d	Pimephales promelas (fathead minnow)	ECHA	ECOSAR v1.11
	Crustacea toxicity	NOEC 208 mg/l	21 d	Daphnia magna	ECHA	
	Acute bacteria toxicity	(> 1000 mg/l)		Activated sludge	ECHA	OECD 209

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-63-0	2-Propanole (Isopropanole)			
	EU Methods C.5 and C.6	53%	5	ECHA
	readily biodegradable			
78-92-2	butan-2-ol			
	EU Method C.5 / EU Method C.6	86 %	5	ECHA
	readily biodegradable			
67-56-1	methanol			
	Respirometric test (BOD of ThOD)	82,7%	5	ECHA
	readily biodegradable			
	Respirometric test (BOD of ThOD)	71,5%	5	ECHA
	readily biodegradable			

12.3. Bioaccumulative potential

The product has not been tested.

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
67-63-0	2-Propanole (Isopropanole)	0,05
78-92-2	butan-2-ol	0,65

BCF

CAS No	Chemical name	BCF	Species	Source
67-56-1	methanol	< 10	Leuciscus idus melanotus	ECHA

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The product has not been tested.

12.6. Other adverse effects

No information available.

Further information

No special environmental measures are necessary.

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

Waste treatment solutions: Dispose of to hazardous waste incineration in accordance with official regulations. Disposal according to official regulations. Disposal according to Directive 2008/98/EC on waste and hazardous waste. Hazardous properties of waste: Highly flammable Irritant. Disposal must be documented. Contact the responsible authorized waste disposal company for waste disposal. Waste for recycling must be classified and labeled. Contact waste exchanges for recycling. Waste for disposal is exempt from classification and labeling requirements under the Chemicals Act. Must not be disposed of and deposited together with household waste. Do not mix with other wastes. Do not allow to enter surface water or sewage system. Do not pour waste down the drain. Before discharging into the public sewer system (e.g. residues of washing and rinsing liquids), the relevant (WHG, AbwAG, AbwV, municipal wastewater regulations, discharge permit, etc.). If you have any further questions, please contact your waste management or environmental representative or the responsible local authority. Clean IBCs only at an approved location. The waste producer is responsible for the correct assignment of the designation of his waste. The assignment of the waste code numbers/waste designations is to be carried out in accordance with EAKV on an industry- and process-specific basis. specific to the industry and process.

List of Wastes Code - residues/unused products

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors; hazardous waste

List of Wastes Code - used product

070204 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of plastics, synthetic rubber and man-made fibres; other organic solvents, washing liquids and mother liquors; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Other disposal recommendations:

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

Cleaning by recyclers.

Recommended cleaning agents:

Clean with detergents. Avoid solvent cleaners.

Contaminated packaging must be treated in the same way as the substance. Non-contaminated and residue-emptied packaging can be recycled. Packaging that cannot be cleaned must be disposed of. Empty (residue-emptied) containers also remain contaminated by product residues and may present hazards due to vapours. They must be disposed of by specialists or sent to an approved reconditioning facility. The conditions of the regional reconditioning companies must be observed.

SECTION 14: Transport information**Land transport (ADR/RID)**

14.1. UN number:	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol, butanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3

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Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E

Inland waterways transport (ADN)**Other applicable information (inland waterways transport)**

Not classified for this transport route.

Marine transport (IMDG)

14.1. UN number:	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol, butanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	274
Limited quantity:	1 L
Excepted quantity:	E2
EmS:	F-E, S-D
Segregation group:	0

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:	UN 1987
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Isopropanol, butanol)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3



Special Provisions:	A3 A180
Limited quantity Passenger:	1 L
Passenger LQ:	Y341
Excepted quantity:	E2
IATA-packing instructions - Passenger:	353
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	364
IATA-max. quantity - Cargo:	60 L

Other applicable information (air transport)

ERG Kodex: 3L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Warning: Combustible liquids.

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

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Safety Data Sheet

according to UK REACH Regulation

Film release agent PVA

Revision date: 26.08.2021

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EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 69

2004/42/EC (VOC): 45 %

National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 3,8,13,15.

Abbreviations and acronymsADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H301+H311+H331	Toxic if swallowed, in contact with skin or if inhaled.
H311	Toxic in contact with skin.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)