

Pullex 3in1-Lasur

Version number: 2.0

Revision: 2023-02-02
Date of issue: 2023-02-02

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

1.1 Product identifier

Trade name **Pullex 3in1-Lasur** **4465a:**
Different colours

Product number 4465000030 ff

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

Relevant identified uses Coating material for commercial or consumer end-uses.

Uses advised against Any use not listed above.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ADLER-Werk Lackfabrik Johann Berghofer GmbH & Co KG
Bergwerkstraße 22
A-6130 Schwaz
Austria

Telephone: +4352426922713
e-mail: sdb-info@adler-lacke.com

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Telephone
+43 5242 6922-713
Mon - Thu 07:00 AM - 04:25 PM
Fri 07:00 AM - 12:15 PM

1.4 Emergency telephone number

Country	Name	Telephone
United Kingdom	Guy's & St Thomas' Poisons Unit	+44 (0)20 7188 0100

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Hazard class	Category	Hazard class and category	Hazard statement
aspiration hazard	1	Asp. Tox. 1	H304
hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labelling

- Signal word danger

- Pictograms

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GHS08



- Hazard statements

- H304 May be fatal if swallowed and enters airways.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P273 Avoid release to the environment.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P405 Store locked up.
P501 Dispose of contents, container in accordance with national regulations.

- Supplemental hazard information

- EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains 3-iodo-2-propynylbutylcarbamate. May produce an allergic reaction.

- Hazardous ingredients for labelling

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics, Naphtha (petroleum), hydrotreated heavy, xylene, mixed isomers, pure

2.3 Other hazards

Cloths soaked in oxidatively drying products may ignite spontaneously! Unfold soaked cloths and allow to dry; storage in closed metal containers or under water necessary. . Keep out of reach of children and do not empty into the drains. Dispose remainders properly (collection of hazardous waste, disposal companies). Empty containers must be entered into the recycling system. The usual safety precautions must be observed during processing of the product.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Alkyd resins with pigments and other additives in organic solvents - contains film preservatives.

Name of substance	Identifier	Wt%	Classification acc. to GHS
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	CAS No 64742-48-9 EC No 918-481-9	50 - < 75	Asp. Tox. 1 / H304
(2-methoxymethylethoxy)propanol	CAS No 34590-94-8 EC No 252-104-2	1 - < 3	

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Name of substance	Identifier	Wt%	Classification acc. to GHS
2-(2-butoxyethoxy)ethanol	CAS No 112-34-5 EC No 203-961-6 Index No 603-096-00-8	1 - < 3	Eye Irrit. 2 / H319
3-iodo-2-propynylbutylcarbamate	CAS No 55406-53-6 EC No 259-627-5 Index No 616-212-00-7	0.3 - < 0.5	Acute Tox. 4 / H302 Acute Tox. 3 / H331 Eye Dam. 1 / H318 Skin Sens. 1 / H317 STOT RE 1 / H372 Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
3-iodo-2-propynylbutylcarbamate	-	M-factor (acute) = 10	1,795 mg/kg 0.5 mg/l/4h	oral inhalation: dust/ mist

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth. Take off immediately all contaminated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation

Provide fresh air. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

Following skin contact

Take off contaminated clothing. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Do not use any solvents or thinners!

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Keep at rest. IF SWALLOWED: Immediately call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), BC-powder, Water spray, Alcohol resistant foam, Sand

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Thick smoke may occur in case of a fire. Inhaling the decomposed products may cause serious damage to health. The formation of explosive dust-air-mixtures is possible. Upon contact with air, the vapours may form an explosive mixture. . Combustible.

Hazardous combustion products

Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety. Provision of sufficient ventilation. Control of dust.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Fill contaminated material in the original container or any other suitable one and dispose it in accordance with point 13.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation
Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Flammability hazards
Keep away from sources of ignition - No smoking. Ground/bond container and receiving equipment.

Control of effects

Do not pierce or burn, even after use. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Close the open container carefully and keep it straight to prevent leakage. Store in the original container. Storage temperature of 0 °C/32 °F and up to 50 °C/122 °F.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)											
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m ³]	STEL [ppm]	STEL [mg/m ³]	Ceiling-C [ppm]	Ceiling-C [mg/m ³]	Notation	Source
EU	2-(2-butoxyethoxy)ethanol	112-34-5	IOEL V	10	67.5	15	101.2				2006/15/EC
EU	(2-methoxy-methylethoxy)propanol	34590-94-8	IOEL V	50	308					H	2000/39/EC
EU	formic acid	64-18-6	IOEL V	5	9						2006/15/EC
GB	2-(2-butoxyethoxy)ethanol	112-34-5	WEL	10	67.5	15	101.2				EH40/2005
GB	(2-methoxy-methylethoxy)propanol	34590-94-8	WEL	50	308						EH40/2005
GB	formic acid	64-18-6	WEL	5	9.6						EH40/2005

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur
H absorbed through the skin

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STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)
TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	308 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethyl-ethoxy)propanol	34590-94-8	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	67.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	101.2 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
2-(2-butoxyethoxy)ethanol	112-34-5	DNEL	83 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
3-iodo-2-propynyl-butylcarbamate	55406-53-6	DNEL	0.023 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
3-iodo-2-propynyl-butylcarbamate	55406-53-6	DNEL	0.07 mg/m ³	human, inhalatory	worker (industry)	acute - systemic effects
3-iodo-2-propynyl-butylcarbamate	55406-53-6	DNEL	1.16 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
3-iodo-2-propynyl-butylcarbamate	55406-53-6	DNEL	1.16 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
3-iodo-2-propynyl-butylcarbamate	55406-53-6	DNEL	2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	19 mg/l	aquatic organisms	freshwater	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	1.9 mg/l	aquatic organisms	marine water	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	4,168 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	70.2 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	7.02 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
(2-methoxymethyl-ethoxy)propanol	34590-94-8	PNEC	2.74 mg/kg	terrestrial organisms	soil	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	200 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
2-(2-butoxyethoxy)ethanol	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0.001 mg/l	aquatic organisms	freshwater	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0.44 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0.017 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0.002 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
3-iodo-2-propynyl-butylcarbamate	55406-53-6	PNEC	0.005 mg/kg	terrestrial organisms	soil	short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection (EN 166).

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Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. Use protective gloves made of nitrile rubber as spray protection for short-term work. Material strength: 0.2mm, penetration time \geq 480 min

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

During spraying wear suitable respiratory equipment. Combination filtering device (EN 141). Particulate filter device (EN 143). Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	different colours
Odour	characteristic
Melting point/freezing point	not determined
Boiling point or initial boiling point and boiling range	186 °C at 1 atm
Flammability	not relevant

Lower and upper explosion limit

Lower explosion limit (LEL)	0.6 vol%
Upper explosion limit (UEL)	14 vol%
Flash point	62 °C
Auto-ignition temperature	>200 °C
pH (value)	not determined
Kinematic viscosity	13 – 17 ^S / _{DIN 4mm}

Solubility(ies)

Water solubility	not miscible in any proportion
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Partition coefficient

Partition coefficient n-octanol/water (log value)	this information is not available
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Vapour pressure	10 mmHg at 75.1 °C
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Density and/or relative density

Density	0.851 – 0.919 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
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Other safety parameters

Explosive properties	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics	there is no additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Cloths soaked in oxidatively drying products may ignite spontaneously! Unfold soaked cloths and allow to dry; storage in closed metal containers or under water necessary. .

10.4 Conditions to avoid

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

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful in contact with skin.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
3-iodo-2-propynylbutylcarbamate	55406-53-6	oral	1,795 mg/kg
3-iodo-2-propynylbutylcarbamate	55406-53-6	inhalation: dust/mist	0.5 mg/l/4h

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Contains 3-iodo-2-propynylbutylcarbamate. May produce an allergic reaction.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

Other information

Repeated exposure may cause skin dryness or cracking.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
3-iodo-2-propynyl-butylcarbamate	55406-53-6	ErC50	0.1 mg/l	algae	120 h
3-iodo-2-propynyl-butylcarbamate	55406-53-6	EC50	44 mg/l	microorganisms	3 h

12.2 Persistence and degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-48-9	oxygen depletion	10 %	5 d		ECHA
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	64742-48-9	carbon dioxide generation	0 %	3 d		ECHA
(2-methoxy-methylethoxy) propanol	34590-94-8	oxygen depletion	75 %	10 d		ECHA
(2-methoxy-methylethoxy) propanol	34590-94-8	DOC removal	96 %	28 d		ECHA
(2-methoxy-methylethoxy) propanol	34590-94-8	carbon dioxide generation	76 %	28 d		ECHA
2-(2-but-oxyethoxy)ethanol	112-34-5	oxygen depletion	85 %	28 d		ECHA
3-iodo-2-propynylbutylcarbamate	55406-53-6	carbon dioxide generation	4 %	1 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Relevant provisions relating to waste

List of wastes

- Product

08 01 11* waste paint and varnish containing organic solvents or other hazardous substances

- Packagings

15 01 10* packaging containing residues of or contaminated by hazardous substances

Disposal methods:

Product

Waste production should be avoided or minimised if possible.

Do not empty into the drains. Avoid releasing the product into the environment. Waste, containers must be removed, disposed in a safe way.

Packagings

Waste production should be avoided or minimised if possible.

Packaging waste should be recycled. Burning or landfilling should only be considered if recycling is not feasible.

Notes on disposal:

Product

Disposal of this product and its dissolutions and by-products must be carried out in accordance with the environmental protection requirements and waste disposal laws as well as the requirements of the local authorities at all times. Excess must be handed over, disposed to a recognised waste disposal company (disposal company/recycling company).

Packagings

With the aid of the information provided in this safety data sheet, the responsible authorities must be consulted regarding classification of empty containers, packaging. Empty containers should be disposed, recycled according to type. Licenced containers, packaging can be disposed free of charge via system partners, where applicable. Containers with residual contents must be disposed in accordance with local and national legal provisions.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1 UN number or ID number	not subject to transport regulations
14.2 UN proper shipping name	not relevant
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations
14.6 Special precautions for user	There is no additional information.
14.7 Maritime transport in bulk according to IMO instruments	The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Seveso Directive

2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes
	not assigned		

Deco-Paint Directive (2004/42/EC)

VOC content	74.37 % 640 g/l
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Industrial Emissions Directive (IED) (2010/75/EU)

VOC content	73.28 % 623.7 g/l
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Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

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Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

None of the ingredients are listed.

Biocidal active substances

Name of substance	% (W/w)	Unit
3-iodo-2-propynylbutylcarbamate	3	g/kg

15.2 Chemical Safety Assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
1.1	Product identifier: Trade name Pullex 3in1-Lasur FS Different colours 4465a:	Product identifier: Trade name Pullex 3in1-Lasur Different colours 4465a:	yes
2.2		- Precautionary statements: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
3.2		Description of the mixture: change in the listing (table)	yes
8.1		Occupational exposure limit values (Work- place Exposure Limits): change in the listing (table)	yes
8.1		Relevant DNELs of components of the mix- ture: change in the listing (table)	yes
8.1		Relevant PNECs of components of the mix- ture: change in the listing (table)	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
8.2	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. Use protective gloves made of butyl rubber as spray protection for short-term work. Material strength: 0.5mm, penetration time \geq 480 min.	Hand protection: Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. 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. Use protective gloves made of nitrile rubber as spray protection for short-term work. Material strength: 0.2mm, penetration time \geq 480 min	yes
9.1	Lower and upper explosion limit: this information is not available	Lower and upper explosion limit	yes
9.1	Upper explosion limit (UEL): 7 vol%	Upper explosion limit (UEL): 14 vol%	yes
9.1	Auto-ignition temperature: not applicable	Auto-ignition temperature: >200 °C	yes
9.1	Solubility(ies): not determined	Solubility(ies)	yes
9.1		Water solubility: not miscible in any proportion	yes
9.1	Vapour pressure: 0.05 kPa at 20 °C	Vapour pressure: 10 mmHg at 75.1 °C	yes
9.1	Density: 0.851 g/cm ³ at 20 °C	Density: 0.851 - 0.919 g/cm ³ at 20 °C	yes
9.1		Relative vapour density: information on this property is not available	yes
9.1	Particle characteristics: no data available	Particle characteristics: not relevant (liquid)	yes
9.1		Other safety parameters	yes
9.1		Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.	yes
12.2		Degradability of components of the mixture: change in the listing (table)	yes
12.6		Endocrine disrupting properties: Not listed.	yes
13.1		List of wastes	yes
13.1		- Product: change in the listing (table)	yes
13.1		- Packagings: change in the listing (table)	yes
14.1	UN number or ID number	UN number or ID number: not subject to transport regulations	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety-relevant
14.1	ADN: UN 9003		yes
14.2	UN proper shipping name	UN proper shipping name: not relevant	yes
14.2	ADN: SUBSTANCES WITH A FLASH-POINT ABOVE 60 °C AND NOT MORE THAN 100 °C		yes
14.3	Transport hazard class(es)	Transport hazard class(es): none	yes
14.3	ADN: 9		yes
14.7	Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information: not assigned		yes
14.7	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN) - Additional information		yes
14.7	Number of cones/blue lights: 0		yes
15.1	VOC content: 74.38 %	VOC content: 74.37 % 640 g/l	yes
15.1	VOC content: 73.29 %	VOC content: 73.28 % 623.7 g/l	yes
15.1		Regulation on drug precursors: none of the ingredients are listed	yes
15.1		Regulation on persistent organic pollutants (POP): None of the ingredients are listed.	yes
16		Abbreviations and acronyms: change in the listing (table)	yes
16	Key literature references and sources for data: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	Key literature references and sources for data: Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
GHS-GB	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008

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Abbr.	Descriptions of used abbreviations
IOELV	Indicative occupational exposure limit value
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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Note concerning the lower explosion limit of water-thinnable varnishes:

See PTB research report PEx5 200500185, Physical-Technical Federal Agency Braunschweig, September 2005 and report PTB-W-57, February 1994.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.