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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2024 Version number 7 (replaces version 6) Revision: 23.01.2024

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

· 1.1 Product identifier

· Trade name: **TOP SHIELD transparent**

· Article number: 11966

8KR7-C0SD-J000-A68W · UFI:

 1.2 Relevant identified uses of the substance or mixture and

No further relevant information available. uses advised against

· Application of the substance / the

mixture Protective impregnation

· 1.3 Details of the supplier of the safety data sheet

· Manufacturer/Supplier: AKEMI chemisch technische Spezialfabrik GmbH Tel. +49(0)911-642960 Fax. +49(0)911-644456

Lechstrasse 28 D 90451 Nürnberg

· Further information obtainable

Laboratory 1.4 Emergency telephone

number: Product Safety Department AKEMI chemisch technische Spezialfabrik GmbH

Tel. +49(0)911-64296-59

Reachable during the following office hours: Monday – Thursday from 07:30 a.m. to 16:30 p.m.

Friday from 07:30 a.m. to 13:30 p.m.

SECTION 2: Hazards identification

· 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008

Flam. Liq. 3 H226 Flammable liquid and vapour. Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower].

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.

 Storage: Store in a well-ventilated place. Keep cool.

Store locked up.

· 2.2 Label elements

· Labelling according to Regulation

(EC) No 1272/2008 · Hazard pictograms

The product is classified and labelled according to the CLP regulation.







GHS02 GHS07 GHS08

· Signal word Danger

· Hazard-determining components of

labelling: C11-15-Isoalkanes n-butyl acetate

> Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics

· Hazard statements H226 Flammable liquid and vapour.

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

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.

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P261 Avoid breathing vapours.

P280 Wear protective gloves / eye protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/

doctor.

P331 Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel

unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue

rinsing.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/

regional/national/international regulations.

· Additional information: EUH066 Repeated exposure may cause skin dryness or cracking.

· 2.3 Other hazards

· Results of PBT and vPvB assessment

PBT: Not applicable.√PvB: Not applicable.

· Determination of endocrine-

disrupting properties For information on endocrine disrupting properties see section 11.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· <u>Description:</u> Mixture: consisting of the following components.

<u> </u>	
n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	12.5-25%
C11-15-Isoalkanes Asp. Tox. 1, H304 EUH066	12.5-25%
	12.5-25%
isopropyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066	<10%
EÚH066	<10%
	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066 C11-15-Isoalkanes Asp. Tox. 1, H304 EUH066 Hydrocarbons, C11-C12, Isoalkanes, <2% aromatics Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 4, H413 EUH066 isopropyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 EUH066 Hydrocarbons, C11-C13, Isoalkanes, <2% aromatics Asp. Tox. 1, H304 EUH066

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EC number: 927-285-2	Hydrocarbons, C11-C14 isoalkanes, cycloalkanes, <2% aromatics	<10%
Reg.nr.: 01-2119480162-45	Asp. Tox. 1, H304 EUH066	
CAS: 67-63-0	propan-2-ol	<10%
EINECS: 200-661-7	Flam. Lig. 2, H225	
Index number: 603-117-00-0	Eye Irrit. 2, H319; STOT SE 3, H336	
Reg.nr.: 01-2119457558-25-xxxx		

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

· General information: Take affected persons out into the fresh air.

Position and transport stably in side position.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: If skin irritation continues, consult a doctor.

· After eye contact: Rinse opened eye for several minutes under running water. Then consult a

doctor.

· After swallowing: If symptoms persist consult doctor.

· 4.2 Most important symptoms

and effects, both acute and

delayed Headache

Breathing difficulty Profuse sweating

Dizziness Dizziness Nausea

Hazards

· 4.3 Indication of any immediate

medical attention and special

treatment needed If swallowed, gastric irrigation with added, activated carbon.

Danger of impaired breathing.

If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol

resistant foam.

5.2 Special hazards arising from

the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide (CO)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

· Protective equipment: Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

· Additional information Dispose of fire debris and contaminated fire fighting water in accordance with

official regulations.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and

emergency procedures Ensure adequate ventilation

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Use respiratory protective device against the effects of fumes/dust/aerosol.

Keep away from ignition sources.

• 6.2 Environmental precautions: Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage

system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for

containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal

binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

• <u>6.4 Reference to other sections</u> See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe

handling Keep receptacles tightly sealed.

Store in cool, dry place in tightly closed receptacles.

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than

air).

Use only in well ventilated areas.

Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and

<u>explosion protection:</u> No special measures required.

• 7.2 Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by

<u>storerooms and receptacles:</u> <u>Store only in the original receptacle.</u>

Prevent any seepage into the ground.

· Information about storage in one

common storage facility:

Store away from oxidising agents.

Store away from foodstuffs.

· Further information about storage

conditions:

Store receptacle in a well ventilated area.

Protect from frost.

· Storage class:

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

123-86-4 n-butyl acetate

IOELV Short-term value: 723 mg/m³, 150 ppm

Long-term value: 241 mg/m³, 50 ppm

· DNELs

123-86-4 n-butyl acetate

Oral	DNEL (Kurzzeit-akut)	2 mg/kg bw/day (BEV)
	DNEL (Langzeit-wiederholt)	2 mg/kg bw/day (BEV)
Dermal	DNEL (Kurzzeit-akut)	11 mg/kg bw/day (ARB)

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				/O :
			6 mg/kg bw/day (BEV)	(Contd. of pa
	DNFI	(Langzeit-wiederholt)	7 mg/kg bw/day (ARB)	
	D. V.L.L.	(Langzon Modernon)	3.4 mg/kg bw/day (BEV)	
Inhalative	DNFI	(Kurzzeit-akut)	600 mg/m³ Air (ARB)	
malativo	DITL	(rtarzzon artat)	300 mg/m³ Air (BEV)	
	DNFI	(Langzeit-wiederholt)	48-300 mg/m³ Air (ARB)	
	D. V.L.L.	(Langeon modernon)	12-35.7 mg/m³ Air (BEV)	
108-21-4 i	soproi	pyl acetate	12 00.1 mg/m / m (B21)	
Oral		•	26 mg/kg bw/day (BEV)	
Dermal		, ,	43 mg/kg bw/day (ARB)	
		(9 ,	26 mg/kg bw/day (BEV)	
Inhalative	DNEL	(Kurzzeit-akut)	850 mg/m³ Air (ARB)	
		,	510 mg/m³ Air (BEV)	
	DNEL	(Langzeit-wiederholt)	227-279 mg/m³ Air (ARB)	
		,	136-168 mg/m³ Air (BEV)	
67-63-0 pr	ropan-	2-ol	3 ()	
Oral .	-		26 mg/kg bw/day (BEV)	
Dermal		, ,	888 mg/kg bw/day (ARB)	
		,	319 mg/kg bw/day (BEV)	
Inhalative	DNEL	(Langzeit-wiederholt)	500 mg/m³ Air (ARB)	
		,	89 mg/m³ Air (BEV)	
PNECs				
123-86-4 r	า-butvl	acetate		
	•	35.6 mg/l (KA)		
`		0.018 mg/l (MW)		
		0.18 mg/l (SW)		
		0.36 mg/l (WAS)		
PNEC (fes		0.0903 mg/kg Trockengew (BO)		
`	′	0.0981 mg/kg Trockengew (MWS)		
		0.981 mg/kg Trockengew (SWS)		
108-21-4 i		pyl acetate		
PNEC (wässrig) 190 mg/l (KA)				
		0.022 mg/l (MW)		
		0.22 mg/l (SW)		
PNEC (fes	st)	0.35 mg/kg Trockengew (BO)		
0		0.125 mg/kg Trockengew (MWS)		
		1.25 mg/kg Trockengew (SWS)		
67-63-0 pr	ropan-		•	
	(wässrig) 2,251 mg/l (KA)			
140.9 mg/l (M 140.9 mg/l (S\) 140.9 mg/l (W PNEC (fest) 28 mg/kg Trod		140.9 mg/l (MW)		
		140.9 mg/l (SW)		
		140.9 mg/l (WAS)		
		28 mg/kg Trockengew	(BO)	
		552 mg/kg Trockengew (MWS)		
			•	



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The lists valid during the making were used as basis.

Additional information:8.2 Exposure controls

· Hand protection

Appropriate engineering controls
 Individual protection measures, such as personal protective equipment

· General protective and hygienic

measures: Do not eat, drink, smoke or sniff while working.

Apply solvent resistant skin cream before starting work.

Use skin protection cream for skin protection.

Clean skin thoroughly immediately after handling the product.

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

· Respiratory protection: Filter AX

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Preventive skin protection by use of skin-protecting agents is recommended.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Skin protection agent recommendation for preventive skin shelter without use of

protective gloves:

STOKODERM (http://www.stoko.com)

Skin protection agent recommendation for preventive skin shelter in application

and combination of protective gloves: STOKO EMULSION (http://www.stoko.com)

Skin protection recommendation for skin cleaning after product handling:

FRAPANTOL (http://www.stoko.com)

Skin protection agent recommendation for skin aftercare:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protection gloves to be used have to comply with the specifications of the directive 89/686/EC and the directive derived decree EN374, respectively, e.g. the above listed protection glove type. The mentioned permeation times' data were generated and verified with material samples of the recommended protection glove type in the scope of laboratory anylyses of the company KCL GmbH in compliance with EN374.

This recommendation refers exclusively to the material safety data sheet referenced product delivered by Akemi and the indicated field of application. In case of product dilution or in case of mixture with different substances or chemicals, and in condition of EN374 deviation the producer of CE-approved protection gloves must be contacted for detailed information (e.g., KCL GmbH, Germany, 36124 Eichenzell, internet: http://www.kcl.de).

Material of gloves Fluorocarbon rubber (Viton)

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material

Value for the permeation: Level \leq 6; 480 min

The exact break trough time has to be found out by the manufacturer of the

protective gloves and has to be observed.

 For the permanent contact gloves made of the following materials are

suitable:

Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890)

Butyl rubber, BR

· As protection from splashes gloves made of the following materials are

suitable:

Nitrile rubber, NBR

Camatril (KCL, 730, 731, 732, 733)

Chloroprene rubber, CR

Camapren (KCL, Art_No. 720, 722, 726)

Butoject (KCL, Art_No. 897, 898) Fluorocarbon rubber (Viton) Vitoject (KCL, Art_No. 890) Butoject (KCL, Art No. 897, 898)

Butyl rubber, BR

· Not suitable are gloves made of

the following materials:

Natural rubber, NR Leather gloves

Strong material gloves

· Eye/face protection Goggles recommended during refilling

· Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Colour: Yellowish · Odour: Mild

· Odour threshold: Not determined. · Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling range 180 °C

· Flammability Not applicable.

· Lower and upper explosion limit

0.7 Vol % · Lower: 10.4 Vol % · Upper: 40 °C · Flash point: 270 °C · Auto-ignition temperature:

· Decomposition temperature: Not determined.

Not determined. · pH Not applicable

· Viscosity:

Not determined. Kinematic viscosity Not determined. · Dynamic:

Solubility

· water:

Not miscible or difficult to mix. Partition coefficient n-octanol/water (log value) Not determined.

10.7 hPa

· Vapour pressure at 20 °C:

· Density and/or relative density · Density at 20 °C:

0.88 g/cm3 · Relative density Not determined. · Vapour density Not determined.

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· 9.2 Other information

· Appearance:

· Form: Fluid

· Important information on protection of health and

environment, and on safety.

Ignition temperature: Product is not selfigniting.

· Explosive properties: Product does not present an explosion hazard.

· Solvent content:

84.3 % · Organic solvents: 7.5 % · Solids content:

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

Void Explosives · Flammable gases Void Void Aerosols · Oxidising gases Void · Gases under pressure Void

Flammable liquid and vapour. · Flammable liquids

· Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in

contact with water Void Void Oxidising liquids · Oxidising solids Void · Organic peroxides Void Void · Corrosive to metals Desensitised explosives Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

 10.2 Chemical stability Thermal decomposition /

· 10.4 Conditions to avoid

No decomposition if used and stored according to specifications. conditions to be avoided:

· 10.3 Possibility of hazardous

reactions Reacts with strong oxidising agents. Forms flammable gases/fumes.

No further relevant information available. No further relevant information available.

· 10.5 Incompatible materials: · 10.6 Hazardous decomposition

Carbon monoxide and carbon dioxide products:

SECTION 11: Toxicological information

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

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral 10,760 mg/kg (rat) (OECD 423) LD50

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			(Contd. of pa	
Dermal	LD50	>14,112 mg/kg (rabbit) (OECD 402)	(Conta. or pa	
Inhalative	LC50/4 h	23.4 mg/l (rat) (OECD 403)		
	LC50	390 mg/m3 (rat)		
	LC50/48h	64 mg/l (Brachydanio rerio)		
90622-58-	5 C11-15-Isoa	- · · · · · · · · · · · · · · · · · · ·		
Oral	LD50	>5,000 mg/kg (rat)		
Dermal	LD50	>3,160 mg/kg (rabbit)		
Inhalative	LC50/4 h	>5.6 mg/l (rat)		
Hydrocarl	ons, C11-C1	2, Isoalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)		
Dermal	LD50	>5,000 mg/kg (rabbit)		
108-21-4 i	sopropyl acet	tate		
Oral	LD50	3,000 mg/kg (rat)		
Hydrocarl	ons, C11-C1	3, Isoalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)		
Dermal	LD50	>5,000 mg/kg (rabbit)		
	LD50	>5,000 mg/kg (rabbit)		
Inhalative	LC50/4h	2.5 mg/m3 (rat)		
	LC50/8h	>5,000 ppm (rat)		
	NOAEC	1,000 mg/l (rat)		
Hydrocarl	ons, C11-C1	4 isoalkanes, cycloalkanes, <2% aromatics		
Oral	LD50	>5,000 mg/kg (rat)		
	NOAEL-Werte	>5,000 mg/kg (rat)		
Dermal	LD50	>5,000 mg/kg (rabbit)		
Inhalative	NOAEL	>10,400 mg/m³ (rat)		
67-63-0 pı	ropan-2-ol			
Oral	LD50	>2,000 mg/kg (rabbit)		
		5,840 mg/kg (rat) (OECD 401)		
	NOAEL-Werte	e 400 mg/kg (rat)		
Dermal	LD50	13,900 mg/kg (rabbit) (OECD 402)		
Inhalative	LC50/8h	47.5 ppm (rat)		
	LC50/4 h	>25 mg/l (rat)		
	LC50	25,000 mg/m3 (rat)		
	LC50/48h	>100 mg/l (Leuciscus idus)		
	sion/irritation	Based on available data, the classification criteria are not met.		
Serious eye damage/irritation				
Respiratory or skin sensitisation		<u>tisation</u> Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
		Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.		
		Based on available data, the classification criteria are not met.		
STOT-single exposure May ca		May cause drowsiness or dizziness.		
STOT-repeated exposure Aspiration hazard Based on available data, the classification criteria are not met. May be fatal if swallowed and enters airways.				



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11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity		
· Aquatic toxicity:		
123-86-4 n-b	outyl acetate	
EC50/24h	72.8 mg/l (daphnia magna) (DIN 38412)	
EC50/96h	320 mg/l (algae)	
LC50/24h	205 mg/l (daphnia magna)	
IC50/72h	648 mg/l (Desmodesmus subspicatus)	
EC10/18h	959 mg/l (pseudomonas putida)	
EC50/48h	44 mg/l (daphnia magna)	
EC50/16h	959 mg/l (pseudomonas putida)	
NOEC	200 mg/kg (Desmodesmus subspicatus)	
NOEC/21d	23 mg/l (daphnia magna) (OECD 211)	
EC50/72h	647.7 mg/l (Desmodesmus subspicatus) (Zellvermehrungshemmtest)	
	397 mg/l (Scenedesmus subspicatus)	
LC50/96h	62 mg/l (Danio rerio.)	
	81 mg/l (piscis)	
	100 mg/l (lepomis macrochirus)	
	62 mg/l (Leuciscus idus) (DIN 38412)	
	18 mg/l (pimephales promelas) (OECD 203)	
90622-58-5 (C11-15-Isoalkanes	
EL0/48h	1,000 mg/l (daphnia magna)	
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)	
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)	
NOELR/72h	1,000 mg/l (Pseudokirchneriella subcapitata)	
NOELR/21d	1 mg/l (daphnia magna)	
EC50/48h	<100 mg/l (daphnia magna)	
LC50/96h	2,890 mg/l (pimephales promelas)	
Hydrocarbo	ns, C11-C12, Isoalkanes, <2% aromatics	
EL0/48h	1,000 mg/l (daphnia magna)	
EL0/72h	1,000 mg/l (Pseudokirchneriella subcapitata)	
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)	
NOELR/72h	, ,	
NOEC/21d	0.011 mg/l (daphnia magna)	
	1 mg/l (daphnia magna)	
_	ns, C11-C13, Isoalkanes, <2% aromatics	
EC50/48h	>1,000 mg/l (daphnia magna)	
ErC50/72h	>1,000 mg/l (Pseudokirchneriella subcapitata)	
EL0/48h	1,000 mg/l (daphnia magna)	
LL0/96h	1,000 mg/l (Oncorhynchus mykiss)	
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	1 mg/l (daphnia magna)
EC50/72h	>1,000 mg/l (algae)

LC50/96h >1,000 mg/l (Oncorhynchus mykiss)

NOELR/72h 1,000 mg/l (Pseudokirchneriella subcapitata)

Hydrocarbons, C11-C14 isoalkanes, cycloalkanes, <2% aromatics

EL50/48h >1,000 mg/l (daphnia magna)
EL50/72h >1,000 mg/l (algae)
LL50/96h >1,000 mg/l (piscis)
NOELR/21d 1 mg/l (daphnia magna)
NOELR/28d 0.103 mg/l (piscis)

67-63-0 propan-2-ol

EC50/24h 9,714 mg/l (daphnia magna)

EC50 >1,000 mg/l (BES)

LC50/24h 9,714 mg/l (daphnia magna)

EC50/15min | 22,000 mg/l (Photobac. phosphoreum) IC50/72h | >1,000 mg/l (Desmodesmus subspicatus) EC10/18h | 5,175 mg/l (pseudomonas putida) (DIN 38412) EC50/48h | 9,714 mg/l (daphnia magna) (OECD 202)

EC50/72h >1,000 mg/l (algae)

>100 mg/l (Scenedesmus subspicatus)

LC50/96h 6,550 mg/l (piscis)

9,640 mg/l (Pimephales promelas)

· 12.2 Persistence and

degradability
 12.3 Bioaccumulative potential
 12.4 Mobility in soil
 No further relevant information available.
 No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.∨PvB: Not applicable.

12.6 Endocrine disrupting

propertiesThe product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

· <u>General notes:</u> Do not allow product to reach ground water, water course or sewage system.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous

for water

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation Must not be disposed together with household garbage. Do not allow product to

reach sewage system.

· Uncleaned packaging:

· Recommendation: Empty contaminated packagings thoroughly. They may be recycled after

thorough and proper cleaning.

· Recommended cleansing agents: Alcohol

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SECTION 14: Transport information

· <u>14.1 UN number or ID number</u> · <u>ADR, IMDG, IATA</u>	UN1993
· 14.2 UN proper shipping name	
ADR	1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES,
	ISOPROPYL ACETATE)
· <u>IMDG, IATA</u>	FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES,
	ISOPROPYL ACETATE)

· 14.3 Transport hazard class(es)

· ADR



· <u>Class</u> 3 (F1) Flammable liquids. · <u>Label</u> 3

· IMDG, IATA



· <u>Class</u> 3 Flammable liquids. · Label 3

· 14.4 Packing group

· ADR, IMDG, IATA

· 14.5 Environmental hazards:

· Marine pollutant:

• 14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code):
 EMS Number:
 Stowage Category
 30
 F-E,S-E
 A

· 14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

· Transport/Additional information:

· ADR

Limited quantities (LQ)
 Excepted quantities (EQ)
 Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

· Transport category 3 · Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 5L

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml

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· UN "Model Regulation":

UN 1993 FLAMMABLE LIQUID, N.O.S. (BUTYL ACETATES, ISOPPOPYL ACETATE), 3 III

ISOPROPYL ACETATE), 3, III

SECTION 15: Regulatory information

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

· Labelling according to Regulation

(EC) No 1272/2008 GHS label elements

· Directive 2012/18/EU

Directive 2012/10/EO

· Named dangerous substances -

ANNEX I None of the ingredients is listed.
Seveso category P5c FLAMMABLE LIQUIDS

· Qualifying quantity (tonnes) for the

application of lower-tier

requirements 5,000 t

· Qualifying quantity (tonnes) for the

application of upper-tier

requirements 50,000 t

REGULATION (EC) No 1907/2006

ANNEX XVII Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

· Information about limitation of use: Employment restrictions concerning juveniles must be observed.

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is listed.

· VOC EU 741.4 g/l

· 15.2 Chemical safety

assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This Safety Data Sheets is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Laboratory

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Date of previous version:

· Version number of previous

Abbreviations and acronyms:

24.08.2023

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RID: Règlement international concernant le transport des marchandises dangereuses par chemin de

fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values

Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Asp. Tox. 1: Aspiration hazard - Category 1

Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard - Category 4

ΕU