



Print date: 19.01.2016

Page 1 of 1

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

1.1 Product identifier

S-U-RETENTION-BEADS-GLUE

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

Sector of Use

SU21 Consumer uses: Private households / general public / consumers SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category

PC9a Coatings and paints, thinners, paint removers

Process category

PROC10 Roller application or brushing PROC11 Non industrial spraying

Environmental release category

ERC8a Wide dispersive indoor use of processing aids in open systems

Application of the substance / the preparation

Surface protection

1.3 Manufacturer/Supplier:

SCHULER-DENTAL GmbH & Co. KG Johannesstraße 6-8 89081 Ulm / DEUTSCHLAND

Tel.: 0731/92772-0 / Fax : 0731/92772-49 Internet: www.schuler-dental.com

E-Mail: info@schuler-dental.com

Further information obtainable from:

Technical advice: info@schuler-dental.com

Safety data sheet: sicherheitsdatenblatt@schuler-dental.com

1.4 Emergency telephone number:

+49 (0) 89 19240 (Advice centre for poisoning in Munich, 24 h in English and German)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 2 - H225 Highly flammable liquid and vapour.



GHS05

Eye Dam. 1 - H318 Causes serious eye damage.







Print date: 19.01.2016 Page 2 of 15



STOT SE 3 - H336 May cause drowsiness or dizziness.

Aquatic Chronic 3 - H412 Harmful to aquatic life with long lasting effects.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC





F Highly flammable Xi Irritant

R 11

Highly flammable.

R 36

Irritating to eyes.

R 52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R 66

Repeated exposure may cause skin dryness or cracking.

R 67

Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008







GHS02

GHS05

Signal word

Danger

Hazard-determining components of labelling:

isopropyl acetate / propan-2-ol / butanol / butan-1-ol

Hazard statements

H225 Highly flammable liquid and vapour.

H318-EUH066 Causes serious eye damage. Repeated exposure may cause skin dryness or cracking. H336 May cause drowsiness or dizziness.

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 label before use.

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.

P273 Avoid release to the environment. P280 Wear eye protection / face protection.

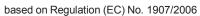
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.







Print date: 19.01.2016

Page 3 of 1

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description:

Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS NO.	Description Index R-phrases	%
123-86-4	n-butyl acetate EC number: 204-658-1 Record number: 01-2119485493-29 10-66-67 ① Flam. Liq. 3 - H226; ⑤ STOT SE 3 - H336	25-50
108-21-4	isopropyl acetate EC number: 203-561-1 Record number: 01-2119537214-46	10-25
67-63-0	propan-2-ol EC number: 200-661-7 Record number: 01-2119457558-25	2,5-10
107-98-2	1-methoxy-2-propanol EC number: 203-539-1 Record number: 01-2119457435-35 10-67 Flam. Liq. 3 - H226; STOT SE 3 - H336	2,5-10
64742-49-0	Naphtha (petroleum), hydrotreated light EC number: 920-750-0 Record number: 01-2119473851-33	2,5-10
64-17-5	ethanol	< 2,5







Print date: 19.01.2016 Page 4 of 15

EC number: 200-578-6

Record number: 01-2119457610-43

🚯 Flam. Liq. 2 - H225; 🕠 Eye Irrit.

2 - H319

141-78-6 ethyl acetate 2,5-10

EC number: 205-500-4

Record number: 01-2119475103-46

F XXi 11-36-66-67

78-83-1 butanol 2,5-10

EC number: 201-148-0

Record number: 01-2119484609-23

🗶 Xi

10-37/38-41-67

♠ Eye Dam. 1 - H318; ♠ Flam. Liq. 3

- H226; (1) Skin Irrit. 2 - H315, STOT SE 3 - H335-H336

71-36-3 butan-1-ol 2,5-10

EC number: 200-751-6

Record number: 01-2119484630-38

🗶 Xn

10-22-37/38-41-67

Eye Dam. 1 - H318; Flam. Liq. 3
 - H226; Acute Tox. 4 - H302, Skin
 Irrit. 2 - H315, STOT SE 3 - H335-H336

Additional information:

For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

Take off or remove contaminated clothing immediately.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Seek medical treatment in case of complaints.

After skin contact:

Wash thoroughly with soap and water immediately and rinse well. If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Drink copious amounts of water and provide fresh air. Call for a doctor immediately.

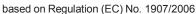
Information for doctor:

Treat symptomatically.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.







Print date: 19.01.2016 Page 5 of 15

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

Foam

Carbon dioxide

Fire-extinguishing powder

For safety reasons unsuitable extinguishing agents:

Water with full jet

5.2 Special hazards arising from the substance or mixture

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

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

Bring if possible, containers from the danger zone. With heating up, printing increase, Berst and danger of explosion.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Protection regulations (see point 7 and 8) to consider.

6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.

Possible warning the neighbourhood.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents.

6.4 Reference to other sections

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

Handling:

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Use only in well ventilated areas.

Smoking, drinking and eating are not permitted at the working place! Keep out of the reach of children.

Do not breathe in fumes.

Do not empty into drains.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture. Vapours are heavier than air.



Print date: 19.01.2016 Page 6 of 15

Application by spraying:

If any persons, regardless whether or not they actually perform spray-painting themselves, are working inside the spraying chamber during varnishing there is the risk that they will be exposed to aerosols and fumes of solvent. Particularly in regard to spraying mist it is rather improbable that the maximum permissible values for dust particles will be constantly met. Under such conditions it is recommended to wear breathing masks (half masks with particle filter of at least filter class P 2 or force-ventilated breathing masks) until aerosol and solvent fumes concentrations will be again under the limit value for exposition.

Storage:

Requirements to be met by storerooms and receptacles:

Observe official regulations for the storage of paints and chemicals.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Storage class:

3

7.3 Specific end use(s):

For more information, please refer to the technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS No.	Designation of material		
123-86-4	n-butyl acetate		
WEL	Short-term value	966 200	mg/m3 ppm
	Long-term value	724 150	mg/m3 ppm
108-21-4	isopropyl acetat	9	
WEL	Short-term value	849 200	mg/m3 ppm
67-63-0	propan-2-ol		
WEL	Short-term value	1250 500	mg/m3 ppm
	Long-term value	999 400	mg/m3 ppm
107-98-2	1-methoxy-2-pro	panol	
WEL	Short-term value	560 150	mg/m3 ppm
	Long-term value	375 100	mg/m3 ppm
	Sk		







64-17-5 WEL	ethanol		
WEL	Long-term value	1920 1000	mg/m3 ppm
141-78-6 WEL	ethyl acetate		
7722	Short-term value	400 200	ррт ррт
78-83-1 WEL	butanol		
	Short-term value	231 75	mg/m3 ppm
	Long-term value	154 50	mg/m3 ppm
71-36-3 WEL	butan-1-ol		
	Short-term value	154 50	mg/m3
	Sk	30	ppm

DNELs

n-butyl acetate

Inhalative, DNEL/DMEL: 12 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 48 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 859,7 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 960 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 3,4 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 7 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 3,4 mg/kg (Consumer, Long Term Exposure)

108-21-4 isopropyl acetate

Inhalative, DNEL/DMEL: 252 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 420 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 510 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 850 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 26 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 43 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 26 mg/kg (Consumer, Long Term Exposure)

propan-2-ol

Inhalative, DNEL/DMEL: 89 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 500 mg/m3 (Worker, Long Term Exposure) Dermal, DNEL/DMEL: 319 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 888 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 26 mg/kg (Consumer, Long Term Exposure)

1-methoxy-2-propanol

Inhalative, DNEL/DMEL: 43,9 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 369 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 553,5 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 18,1 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 50,6 mg/kg (Worker, Long Term Exposure)
Oral, DNEL/DMEC: 3,3 mg/kg (Consumer, Long Term Exposure)

64742-49-0

42-49-0 Naphtha (petroleum), hydrotreated light
Inhalative, DNEL/DMEL: 608 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 2035 mg/m3 (Worker, Long Term Exposure)
Dermal, DNEL/DMEL: 699 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 773 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 699 mg/kg (Consumer, Long Term Exposure)

ethanol

Inhalative, DNEL/DMEL: 114 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 950 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 950 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 1900 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 206 mg/kg (Consumer, Long Term Exposure)
Dermal, DNEL/DMEL: 343 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 87 mg/kg (Consumer, Long Term Exposure)



Page 8 of 15

141-78-6 ethyl acetate

Inhalative, DNEL/DMEL: 367 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 734 mg/m3 (Worker, Long Term Exposure) Inhalative, DNEL/DMEL: 734 mg/m3 (Consumer, Short Term Exposure) Inhalative, DNEL/DMEL: 1468 mg/m3 (Worker, Short Term Exposure) Dermal, DNEL/DMEL: 37 mg/kg (Consumer, Long Term Exposure) Dermal, DNEL/DMEL: 63 mg/kg (Worker, Long Term Exposure) Oral, DNEL/DMEC: 4,5 mg/kg (Consumer, Long Term Exposure)

butanol

Inhalative, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) Inhalative, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEC: 25 mg/kg (Consumer, Long Term Exposure)

butan-1-ol

Inhalativ, DNEL/DMEL: 55 mg/m3 (Consumer, Long Term Exposure) Inhalativ, DNEL/DMEL: 310 mg/m3 (Worker, Long Term Exposure) Oral, DNEL/DMEC: 3125 mg/kg (Worker, Long Term Exposure)

PNECs

123-86-4 n-butyl acetate

PNEC: 0,18 mg/l (Fresh water) PNEC: 0,018 mg/l (Seawater)

PNEC: 0,36 mg/l (Liberation - sporadic -)

PNEC: 35,6 mg/l (Defecator)

PNEC: 0,981 mg/kg (sediment (Fresh water)) PNEC: 0,0981 mg/kg (sediment (Seawater))

PNEC: 0,0903 mg/kg (Bottom)

isopropyl acetate

PNEC: 0,22 mg/l (Fresh water)

PNEC: 0,022 mg/l (Seawater)

PNEC: 1,25 mg/kg (sediment (Fresh water))

PNEC: 0,125 mg/kg (sediment (Seawater))

propan-2-ol 67-63-0

PNEC: 140,9 mg/l (Fresh water)

PNEC: 140,9 mg/l (Seawater)

PNEC: 552 mg/kg (sediment (Fresh water)) PNEC: 552 mg/kg (sediment (Seawater))

PNEC: 28 mg/kg (Bottom)

107-98-2 1-methoxy-2-propanol

PNEC: 10 mg/l (Fresh water)

PNEC: 1 mg/l (Seawater)

PNEC: 100 mg/l (Liberation - sporadic -)

PNEC: 100 mg/l (Defecator)

PNEC: 41,6 mg/kg (sediment (Fresh water))

PNEC: 4,17 mg/kg (sediment (Seawater)) PNEC: 2,47 mg/kg (Bottom)

ethanol

PNEC: 0,96 mg/l (Fresh water) PNEC: 0,79 mg/l (Seawater)

PNEC: 580 mg/l (Defecator)

PNEC: 3,6 mg/kg (sediment (Fresh water))

PNEC: 2,9 mg/kg (sediment (Seawater)) PNEC: 0,63 mg/kg (Bottom)

ethyl acetate

PNEC: 0,26 mg/l (Fresh water) PNEC: 0,026 mg/l (Seawater)

PNEC: 650 mg/l (Defecator)

PNEC: 0,34 mg/kg (sediment (Fresh water))

PNEC: 0,034 mg/kg (sediment (Seawater))

PNEC: 0,22 mg/kg (Bottom)

butanol

PNEC: 0,4 mg/l (Fresh water)

PNEC: 0,04 mg/l (Seawater)

PNEC: 1,52 mg/kg (sediment (Fresh water))

PNEC: 0,152 mg/kg (sediment (Seawater))

71-36-3 butan-1-ol

PNEC: 0,082 mg/l (Fresh water)

PNEC: 0,0082 mg/l (Seawater) PNEC: 2476 mg/l (Defecator)

PNEC: 0,178 mg/kg (sediment (Fresh water))

PNEC: 0,0178 mg/kg (sediment (Seawater))



Print date: 19.01.2016 Page 9 of 15

Personal protective equipment: General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.

Respiratory protection: If the solvent concentration is above WEL limits, a breathing mask approved for this purpose must be worn. Filter A/P2.

Protection of hands: The glove material has to be impermeable and resistant to the product the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Protective gloves made of latex / neoprene. Degradation effect G to E Instalment of permeation E to ND (< 0.9 μ g / cm 2 / min). Protective factor index: special subject class 6 Clean skin thoroughly after work and put on skin protecting cream.

Material of gloves

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.

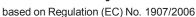
Eye protection: Safety glasses

Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

Information on basic physical and chemical p	properties
General Information	
Appearance:	
Form:	Fluid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not usable on solvent preparations.
Change in condition Phase transfer: fluid - se	olid
Boiling point/Boiling range (approximately):	78,0 °C
Flash point (approximately):	13,0 °C DIN 51 755
Ignition temperature (approximately):	180,00 °C (lowest value of the single components)
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	1,80 Vol %
Upper:	10,00 Vol %
Oxidizing properties	Not determined
Vapour pressure:	50°C < 1.100 hPa
Density:	0,8800 g/cm3
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	Organic solvents
water:	Insoluble.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity (according to DIN 53211)	
Dynamic:	Not determined.







Kinematic:	at 20,00 °C 70,00 s DIN 4 mm	
Solvent separation test:	< 3 %	
Organic solvents (approximately):	90,00 %	
VOC (EC)	782,00 g/l	
Solids content (approximately):	10,00 %	

SECTION 10: Stability and reactivity

10.1 Reactivity

On storage in containers no traffic laws intolerances are to be expected with the tank shell.

10.2 **Chemical stability**

Stable at room temperatureatur

Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions

Forms explosive gases/fumes.

Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

Flammable gases/vapours

SECTION 11: Toxicological information

Information on toxicological effects 11.1

Acute toxicity:

LD/LC50 values relevant for classification:

123-86-4 n-butyl acetate

Oral, LD50: 10760 mg/kg (rat)

Dermal, LD50: > 14112 mg/kg (rabbit)

Inhalative, LC50/4h: 23,4 mg/l (rat)

108-21-4 isopropyl acetate

Oral, LD50: 6750 mg/kg (rat)

Dermal, LD50: 17400 mg/kg (rabbit)

Inhalative, LC50/4h: 50,6 mg/l (rat)

7-63-0 *propan-2-ol* Oral, LD50: 4750 mg/kg (rat) 67-63-0

Dermal, LD50: 13400 mg/kg (rabbit)

Inhalative, LC50/4h: 30 mg/l (rat)

1-methoxy-2-propanol 107-98-2

Oral, LD50: 4016 mg/kg (rat)

Dermal, LD50: 2000 mg/kg (rabbit)

Inhalative, LC50/4h: 27,596 mg/l (rat)

Naphtha (petroleum), hydrotreated light 64742-49-0

Oral, LD50: > 5000 mg/kg (rat)

Dermal, LD50: > 2920 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (rabbit)

Inhalative, LC50/4h: > 20 mg/l (rat)

64-17-5 ethanol

Oral, LD50: > 2000 mg/kg (rat)

Dermal, LD50: > 2000 mg/kg (rabbit)

Inhalative, LC50/4h: > 20 mg/l (rat)

ethyl acetate

Oral, LD50: 5600 mg/kg (rat)

Dermal, LD50: 18000 mg/kg (rabbit)

Inhalative, LC50/4h: > 22,5 mg/l (rat)





based on Regulation (EC) No. 1907/2006

S-U-RETENTION-BEADS-GLUE

Print date: 19.01.2016 Page 11 of 15

78-83-1 butanol

Oral, LD50: 2460 mg/kg (rat) Dermal, LD50: 3400 mg/kg (rabbit) Inhalative, LC50/4h: 24,6 mg/l (rat)

71-36-3 butan-1-ol

Oral, LD50: 2292 mg/kg (rat) Dermal, LD50: 3430 mg/kg (rabbit) Inhalative, LC50/4h: 8000 mg/l (rat)

Primary irritant effect:

on the skin:

Frequent and prolonged skin contact can cause irritation and inflammation of the skin. Repeated exposure may cause skin dryness or cracking.

on the eye:

Irritating effect.

Sensitization:

No sensitizing effects known.

Additional toxicological information:

The breathing in of solvent proportions above the value of M. W. C.-value can lead to health damages, such as irritating mucous membranes and respiratory organs, kidney and liver damages as well as to the impairment of the central nervous system. Signs and symptoms: Headache, dizziness and tiredness, myasthenia, numbing effect and also unconsciousness in exceptional cases. Longer and repeated skin contact can lead to drying out the skin or to skin irritations, respectively. Solvent splashes can lead to eye irritations and reversible damages. In such cases a physician should be consulted at once.

The product shows the following dangers based on the calculation method of the General EU Classification Guidelines for Substances and Mixtures according to the CLP Regulation in the latest version:

Eye Dam. 1 - H318 Causes serious eye damage. ŠTOT SE 3 - H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

SECTION12: Ecological information

12.1 Toxicity Aqualic toxicity:

123-86-4 n-butyl acetate

fish, L(E)C50 : 18 mg/l alga, L(E)C50 : 647,7 mg/l daphnie, L(E)C50 : 44 mg/l

108-21-4 isopropyl acetate

fish, L(E)C50 : 360 mg/l alga, L(E)C50 : 370 mg/l daphnie, L(E)C50 : > 1000 mg/l 67-63-0 propan-2-ol

7-63-0 propan-2-ol fish, L(E)C50 : 9640 mg/l daphnie, L(E)C50 : 13299 mg/l

107-98-2 1-methoxy-2-propanol

fish, L(E)C50 :> 1000 mg/l alga, L(E)C50 :> 1000 mg/l

daphnie, L(E)C50: 21100-25900 mg/l

64742-49-0 Naphtha (petroleum), hydrotreated light

daphnie, L(E)C50 : 4,6 - 10,0 mg/l

64-17-5 ethanol fish, L(E)C50 : 15300 mg/l daphnie, L(E)C50 : > 10000 mg/l

41-78-6 ethyl acetate fish, L(E)C50 : 230 mg/l alga, L(E)C50 : 3300 mg/l daphnie, L(E)C50 : 717 mg/l

78-83-1 butanol fish, L(E)C50 : 1430 mg/l alga, L(E)C50 : 1250 mg/l daphnie, L(E)C50 : 1030 mg/l

71-36-3 butan-1-ol fish, L(E)C50: 1730-1910 mg/l alga, L(E)C50: > 500 mg/l daphnie, L(E)C50: 1983 mg/l







Print date: 19.01.2016 Page 12 of 15

12.2 Persistence and degradability

No further relevant information available.

Behaviour in environmental systems:

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Ecotoxical effects:

Remark:

Harmful to fish.

Additional ecological information:

General notes:

Harmful to aquatic organisms.

Do not allow product to reach ground water, water course or sewage system. Water hazard class 1 : slightly hazardous for water.

12.5 Results of PBT and vPvB assessment

PBT:

Not applicable.

vPvB:

Not applicable.

12.6 Other adverse effects

No further relevant information available.

SECTION13: Disposal considerations

13.1 Waste treatment methods

Recommendation:

The mentioned waste code number according to the European waste code catalogue are regarded as a recommendation. A final determining has to be effected in agreement with the regional place of waste disposal as well as the competent authorities.

Waste disposal key:

08 01 11, waste paint and varnish containing organic solvents or other dangerous substances

European waste catalogue

08

WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS 08 01

wastes from MFSU and removal of paint and varnish 08 01 11 $\,$

waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned packaging:

Disposal of uncleaned packagings according to European waste code number 15 01 10.

Recommendation:

Disposal according to 15 01 04 (metal).

EAK-Nummer 15 01 02 / plastic

Packaging can be reused or recycled after cleaning.

Recommended cleansing agents:

Nitro-thinner





based on Regulation (EC) No. 1907/2006

S-U-RETENTION-BEADS-GLUE

SECTION 14: Transport information

14.1 **UN-Number**

UN1263 UN1263 ADR IMDG UN1263 IATA

UN proper shipping name 14.2

1263 PAINT (ISOPROPYL ACETATE) ADR **IMDG**

PAINT PAINT IATA

Transport hazard class(es)

ADR

Class 14.3

Label

3 Flammable liquids



IMDG Class Label

3 Flammable liquids



IATA Class Label

3 Flammable liquids



14.4 Packing group

ADR IMDG Ш IATA

14.5 **Environmental hazards:**

Not applicable.

Special precautions for user Warning: Flammable liquids. *Danger code (Kemler):* 33 F-E,S-E EMS-Number:

14.7 Massengutbeförderung Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional information:

Not applicable.

Excepted quantities (EQ): E1 Limited quantities (LQ) 5L Transport category 3 Tunnel restriction code D/F

UN "Model Regulation":

UN 1263 PAINT (ISOPROPYL ACETATE), 3, III



SECTION 15: Regulatory information

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

Chemical safety assessment

For this product no appraisal of substance safety was carried out. Information from exposure scenarios of the following substances were integrated into section 1-16:

n-butyl acetate

1-methoxy-2-propanol isopropyl acetate propan-2-ol

butanol

butan-1-ol

Naphtha (petroleum), hydrotreated light

ethyl acetate

ethanol

The compliance with the application conditions and measures for risk minimisation contained in this material safety data sheet ensures the conformity with the existing exposure scenarios.

National regulations:

Information about limitation of use:

Pregnant and breastfeeding women and young persons

Waterhazard class:

Water hazard class 1 : slightly hazardous for water.

Storage class:

3

SECTION 16: Other information

Reasons for changes

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

Relevant phrases

EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
R 10	Flammable.
R 10 R 11	Flammable. Highly flammable.
R 11	Highly flammable.
R 11 R 37/38	Highly flammable. Irritating to respiratory system and skin.
R 11 R 37/38 R 51/53	Highly flammable. Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R 11 R 37/38 R 51/53 R 22	Highly flammable. Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed.
R 11 R 37/38 R 51/53 R 22 R 36	Highly flammable. Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed. Irritating to eyes.
R 11 R 37/38 R 51/53 R 22 R 36 R 66	Highly flammable. Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed. Irritating to eyes. Repeated exposure may cause skin dryness or cracking.
R 11 R 37/38 R 51/53 R 22 R 36 R 66 R 41	Highly flammable. Irritating to respiratory system and skin. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful if swallowed. Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Risk of serious damage to eyes.

FN - GB Revision date: 19.01.2016





based on Regulation (EC) No. 1907/2006

S-U-RETENTION-BEADS-GLUE

Print date: 19.01.2016 Page 15 of 15

Information:

The information given in this safety data sheet is based on the present level of knowledge, but does not represent an assurance of product characteristics.

For further information on the handling and application of the product(s), please refer to our label and the technical instructions leaflet or contact our Customer Service Department on Tel. +49 731 92772-0.

The user is responsible for observing all necessary legal regulations.

According to § 20 and § 21 GefStoffV the employer must provide instruction to the employees affected on the basis of the operating instructions every year. The content and time of the instruction is to be recorded in writing and confirmed by signatures from those receiving instruction.

Please observe work safety measures in items 8 and 15.

Use only for intended purposes. Keep out of the reach of children.

Abbreviations and acronyms:

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

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EN - GB Revision date: 19.01.2016