



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.05.2017

Version number 5

Revision: 30.05.2017

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

- 1.1 Product identifier
- Trade name: **KRISTAL Universal TimeClear 3.0**
- Article number: 9455
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the mixture Lacquer
- Uses advised against SU21 Consumer uses: Private households / general public / consumers
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - Kristal Coatings B.V.
 - Platinawerf 22B
 - 6641 TL Beuningen - Holland
 - Tel: 0031 24 67 526 36
 - Fax: 0031 24 67 533 60
- Further information obtainable from: Product safety department: info@kristalcoatings.nl
- 1.4 Emergency telephone number:
 - National Poisoning Information Centre - Bilthoven - The Netherlands
 - T +31 (0)30 274 88 88
 - Restricted to physicians for information on ingredients.

SECTION 2: Hazards identification

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



GHS02 flame

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
 Skin Sens. 1 H317 May cause an allergic skin reaction.
 STOT SE 3 H336 May cause drowsiness or dizziness.

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

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02



GHS07

- Signal word Danger
- Hazard-determining components of labelling:
 - n-butyl acetate
 - Derivative of Benzotriazol
 - Reaction mass of pentamethylpiperidyl sebacat
 - dibutyltin dilaurate
- Hazard statements
 - H225 Highly flammable liquid and vapour.
 - H319 Causes serious eye irritation.
 - H317 May cause an allergic skin reaction.
 - H336 May cause drowsiness or dizziness.

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H412 Harmful to aquatic life with long lasting effects.

· **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

· **Additional information:**

EUH066 Repeated exposure may cause skin dryness or cracking.

Restricted to professional users.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components %(m/m):**

CAS: 123-86-4	n-butyl acetate	10-25%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119485493-29		
CAS: 108-10-1	4-methylpentan-2-one	10-25%
EINECS: 203-550-1	⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119473980-30		
EC number: 918-668-5	Hydrocarbons, C9, aromatics	2,5-10%
Reg.nr.: 01-2119455851-35	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	
ELINCS: 400-830-7	Derivative of Benzotriazol	0,5-2,5%
Reg.nr.: 01-0000015075-76	⚠ Acute Tox. 3, H331; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	
CAS: 1330-20-7	xylene	0,5-2,5%
EINECS: 215-535-7	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119488216-32		
Reg.nr.: 01-2119491304-40	Reaction mass of pentamethylpiperidyl sebacat	0,5-2,5%
	⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	
CAS: 112-07-2	2-butoxyethyl acetate	0,5-2,5%
EINECS: 203-933-3	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312	
Reg.nr.: 01-2119475112-47		
CAS: 77-58-7	dibutyltin dilaurate	≤ 0,5%
EINECS: 201-039-8	⚠ Muta. 2, H341; Repr. 1A, H360FD; STOT SE 1, H370; STOT RE 1, H372; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	
Reg.nr.: 01-2119496068-27		

· **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:** Immediately remove any clothing soiled by the product.· **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.· **After eye contact:**

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

Remove contactlenses.

· **After swallowing:**

Seek immediate medical advice.

Do not induce vomiting; call for medical help immediately.

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- Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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: CO₂ or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
During heating or in case of fire poisonous gases are produced.
Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- 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.
- 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 item 13.
Ensure adequate ventilation.
- 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

- 7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

108-10-1 4-methylpentan-2-one

IOELV Short-term value: 208 mg/m³, 50 ppm
Long-term value: 83 mg/m³, 20 ppm

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1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
 Long-term value: 221 mg/m³, 50 ppm
 Skin

112-07-2 2-butoxyethyl acetate

IOELV Short-term value: 333 mg/m³, 50 ppm
 Long-term value: 133 mg/m³, 20 ppm
 Skin

DNELs**123-86-4 n-butyl acetate**

Inhalative Acute - short-term exposure - systemic effects 960 mg/m³ (worker)
 Acute - short-term exposure - local effects 960 mg/m³ (worker)
 Long-term exposure - systemic effects 480 mg/m³ (worker)
 Long-term exposure - local effects 480 mg/m³ (worker)

108-10-1 4-methylpentan-2-one

Dermal Long-term exposure - systemic effects 11,8 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 208 mg/m³ (worker)
 Acute - short-term exposure - local effects 208 mg/m³ (worker)
 Long-term exposure - systemic effects 83 mg/m³ (worker)
 Long-term exposure - local effects 83 mg/m³ (worker)

Hydrocarbons, C9, aromatics

Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 150 mg/m³ (worker)

Derivative of Benzotriazol

Dermal Long-term exposure - systemic effects 0,5 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 0,35 mg/m³ (worker)

1330-20-7 xylene

Dermal Long-term exposure - systemic effects 180 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 289 mg/m³ (worker)
 Acute - short-term exposure - local effects 289 mg/m³ (worker)
 Long-term exposure - systemic effects 77 mg/m³ (worker)

Reaction mass of pentamethylpiperidyl sebacat

Dermal Acute - short-term exposure - systemic effects 2,5 mg/kg bw/day (worker)
 Long-term exposure - systemic effects 2,5 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 2,35 mg/m³ (worker)
 Long-term exposure - systemic effects 2,35 mg/m³ (worker)

112-07-2 2-butoxyethyl acetate

Dermal Acute - short-term exposure - systemic effects 102 mg/kg bw/day (worker)
 Long-term exposure - systemic effects 102 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 775 mg/m³ (worker)
 Acute - short-term exposure - local effects 333 mg/m³ (worker)
 Long-term exposure - systemic effects 133 mg/m³ (worker)

77-58-7 dibutyltin dilaurate

Dermal Acute - short-term exposure - systemic effects 1 mg/kg bw/day (worker)
 Long-term exposure - systemic effects 0,2 mg/kg bw/day (wki)
 Inhalative Acute - short-term exposure - systemic effects 0,07 mg/m³ (wki)
 Long-term exposure - systemic effects 0,01 mg/m³ (wki)

PNECs**123-86-4 n-butyl acetate**

PNEC 0,981 mg/kg (sediment freshwater)
 PNEC 35,6 mg/l (STP)
 0,18 mg/l (aqua, freshwater)
 0,36 mg/l (aqua, intermittent releases)
 0,018 mg/l (aqua, marine water)

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0,0981 mg/l (sediment marine water)

108-10-1 4-methylpentan-2-one

PNEC 0,83 mg/kg (sediment marine water)

8,27 mg/kg (sediment freshwater)

PNEC 27,5 mg/l (STP)

0,6 mg/l (aqua, freshwater)

1,5 mg/l (aqua, intermittent releases)

0,06 mg/l (aqua, marine water)

Derivative of Benzotriazol

PNEC 2 mg/kg (bd)

0,306 mg/kg (sediment marine water)

3,06 mg/kg (sediment freshwater)

PNEC 10 mg/l (STP)

0,00023 mg/l (aqua, marine water)

0,0023 mg/l (aqua freshwater)

0,028 mg/l (intermittent release water)

1330-20-7 xylene

PNEC 12,46 mg/kg (sediment marine water)

12,46 mg/kg (sediment freshwater)

PNEC 6,58 mg/l (STP)

0,327 mg/l (aqua, freshwater)

0,327 mg/l (aqua, marine water)

Reaction mass of pentamethylpiperidyl sebacat

PNEC 0,21 mg/kg (bd)

0,11 mg/kg (sediment marine water)

1,05 mg/kg (sediment freshwater)

PNEC 1 mg/l (STP)

0,0022 mg/l (aqua, freshwater)

0,00022 mg/l (aqua, marine water)

0,009 mg/l (intermittent release water)

112-07-2 2-butoxyethyl acetate

PNEC 0,203 mg/kg (sediment marine water)

2,03 mg/kg (sediment freshwater)

0,68 mg/kg (soil)

PNEC 90 mg/l (STP)

0,304 mg/l (aqua, freshwater)

0,56 mg/l (aqua, intermittent releases)

0,0304 mg/l (aqua, marine water)

77-58-7 dibutyltin dilaurate

PNEC 0,005 mg/kg (sediment marine water)

0,05 mg/kg (sediment freshwater)

PNEC 100 mg/l (STP)

0,000463 mg/l (aqua, freshwater)

0,00463 mg/l (aqua, intermittent releases)

0,0000463 mg/l (aqua, marine water)

· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

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· **Respiratory protection:**

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.

Short term filter device:

Filter A.

· **Protection of hands:**



Protective gloves

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

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

· **Material of gloves**

Suitable materials for safety gloves (EN 374):

Butyl rubber, BR

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.

· **Penetration time of glove material**

Thickness of the gloves ≥ 0.3 mm (butylacetate)

Value for the permeation: Level ≥ 60 min (butylacetate)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Clear

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: 114 °C

· **Flash point:** 18 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 370 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Explosion limits:**

Lower: 1,2 Vol %

Upper: 9,0 Vol %

· **Vapour pressure at 20 °C:** 10,7 hPa

· **Density at 20 °C:** 0,97 g/cm³

· **Relative density** Not determined.

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· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	18 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	48,9 %
VOC (EC)	48,94 %
Solids content:	50,9 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- 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 LD50 10760 mg/kg (rat) (OECD 423)
 Dermal LD50 >14112 mg/kg (rabbit) (OECD 402)
 Inhalative LC50/4h 23,4 mg/l (rat) (OECD 403 in vivo, aerosol)

108-10-1 4-methylpentan-2-one

Oral LD50 2080 mg/kg (rat)
 Dermal LD50 >2000 mg/kg (rabbit)
 Inhalative LC50/4h 8,2-16,4 mg/l (rat)

Hydrocarbons, C9, aromatics

Oral LD50 3592 mg/kg (rat)
 Dermal LD50 >3160 ml/kg (rabbit)
 Inhalative LC50/4h >10,2 mg/l (rat)

Derivative of Benzotriazol

Oral LD50 >5000 mg/kg (rat) (OESO 401)
 Dermal LD50 >2000 ml/kg (rat) (OESO 402)
 Inhalative LC50/4h >5,8 mg/l (rat) (OESO 403)

1330-20-7 xylene

Oral LD50 3523 mg/kg (rat)
 Dermal LD50 12126 mg/kg (rabbit)
 Inhalative LC50/4h 11,58 mg/l (mouse)

112-07-2 2-butoxyethyl acetate

Oral LD50 1880 mg/kg (rat)
 Dermal LD50 1500 mg/kg (rabbit)
 Inhalative LC50/4h 400 ppm (rat)

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77-58-7 dibutyltin dilaurate

Oral LD50 2071 mg/kg (rat) (OECD 401)

Dermal LD50 >2000 mg/kg (rabbit) (OECD 402)

· Primary irritant effect:

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

· Serious eye damage/irritation

Causes serious eye irritation.

· Respiratory or skin sensitisation

May cause an allergic skin reaction.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

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

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

· STOT-single exposure

May cause drowsiness or dizziness.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

123-86-4 n-butyl acetate

EC50/48h 44 mg/l (daphnia magna)

EC50/72h 647,7 mg/l (desmodesmus supspicatus)

IC50 356 mg/l (tetrahymena pyriformis) (40 h)

NOAEL/72h 200 mg/l (desmodesmus supspicatus)

LC50/96h 18 mg/l (pimphales promelas) (OECD 203)

108-10-1 4-methylpentan-2-one

EC50/96h 400 mg/l (algae)

EC50/48h >200 mg/l (daphnia magna)

LC50/96h >179 mg/l (fish)

Derivative of Benzotriazol

NOEC/21d (dynamic) 0,78 mg/l (daphnia magna) (OESO 202)

EC10/72h (static) 10 mg/l (pseudokirchneriella subcapitata) (OESO 201)

EC50/3h (static) >1000 mg/l (ac) (OESO 209)

LC0/14d >1000 mg/kg (Eisenia foetida) (OESO 207)

NOEC/56d 100 mg/kg (Eisenia foetida) (OESO 222)

EC50/48h (static) 4,0 mg/l (daphnia magna) (OESO 202)

EC50/72h (static) >9 mg/l (algae) (OESO 201)

LC50/96h (static) (oncorhynchus mykiss)

1330-20-7 xylene

IC50/72h 2,2 mg/l (algae)

NOEC/72h 0,44 mg/l (algae)

EC50/48h 1 mg/l (daphnia magna)

LC50/96h 2,6 mg/l (oncorhynchus mykiss)

Reaction mass of pentamethylpiperidyl sebacat

NOEC/21d (dynamic) 1 mg/l (daphnia magna) (OESO 211)

EC50/3h >100 mg/l (ac) (OESO 209)

EC50/72h (static) 1,68 mg/l (desmodesmus supspicatus) (OESO 201)

EC50/24h 20 mg/l (daphnia magna) (OESO 202)

LC50/96h 0,97 mg/l (lepomis macrochirus) (OESO 203)

0,9 mg/l (Brachydanio rerio) (OESO 203)

7,9 mg/l (oncorhynchus mykiss) (OESO 203)

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112-07-2 2-butoxyethyl acetate

EC50/48h 37 mg/l (daphnia)
 EC50/72h 520 mg/l (algae)
 LC50/96h 10-100 mg/l (leuciscus idus)

77-58-7 dibutyltin dilaurate

EC50/3h 1000 mg/l (bacteria) (OECD 209)
 EC50/48h < 1 mg/l (daphnia) (OECD 202)
 EC50/72h > 1 mg/l (algae) (OECD 201)
 LC50/96h > 3,1 mg/l (fish) (OECD 203)

· 12.2 Persistence and degradability No further relevant information available.

· Degree of elimination:

123-86-4 n-butyl acetate

OECD 301D 83 % (l) (28 d)

· 12.3 Bioaccumulative potential

1330-20-7 xylene

BCF 25,9 (l)

LogPow 3,15 (l)

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· Remark: Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

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.

· European waste catalogue

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

· Uncleaned packaging:

· Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR,ADN, IMDG, IATA UN1263

· 14.2 UN proper shipping name

· ADR/ADN 1263 PAINT

· IMDG, IATA PAINT

· 14.3 Transport hazard class(es)

· ADR,ADN, IMDG, IATA



· Class 3 Flammable liquids.

· Label 3

· 14.4 Packing group

· ADR,ADN, IMDG, IATA III

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· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	33
· EMS Number:	F-E, <u>S</u> -E
· Stowage Category	A
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	

· ADR/ADN	
· 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
· 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
· UN "Model Regulation":	UN 1263 PAINT, 3, III

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- 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, 20
- National regulations:
- Other regulations, limitations and prohibitive regulations
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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.

- Relevant phrases
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H341 Suspected of causing genetic defects.
- H360FD May damage fertility. May damage the unborn child.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.

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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.05.2017

Version number 5

Revision: 30.05.2017

Trade name: KRISTAL Universal TimeClear 3.0

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H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **Contact:** Dhr. B. Peters· **Abbreviations and acronyms:**

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

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally 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)

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

Muta. 2: Germ cell mutagenicity – Category 2

Repr. 1A: Reproductive toxicity – Category 1A

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

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

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

— EU —