Uula Glazing Oil

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier: Uula Glazing Oil

Other means of identification:

Not applicable

1.2 Relevant identified uses of the substance or mixtures, and uses advised against:

Relevant uses: Paint

Uses advised against: All uses not mentioned in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet:

Uula Color Oy
Yttiläntie 265
FI-32920 Kauvatsa - Finland
Tel: +358 10 820 0020
uula@uula.fi
http://www.uula.fi

1.4 Emergency telephone number: 0800-147 111 (toll-free number), +358 (0)9-471 977 (direct), +358 (0)9-4711 (switchboard), Poison Information Center

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

CLP Regulation (EC) No 1272/2008:

This product is classified in accordance with CLP Regulation (EC) No 1272/2008.

Aquatic Chronic 3: Hazardous to the aquatic environment, chronic hazard, category 3, H412

2.2 Label elements:

CLP Regulation (EC) No 1272/2008:

Hazard statements:

Aquatic Chronic 3: H412 - Harmful to aquatic organisms with long-term adverse effects.

Precautionary statements:

P101: If medical assistance is required, show the package or the warning label.
P102: Keep out of the reach of children.
P273: Avoid release into the environment.
P501: Dispose of the contents/packaging in accordance with local legislation.

Supplemental hazard information:

EUH066: Repeated exposure may cause drying or cracking of the skin.
EUH208: Contains Bis(2-ethyl hexanoate) cobalt, Butylcarbamate 3-iodo-2-propynyl. May cause an allergic reaction.

2.3 Other hazards:

The product does not meet PBT/vPvB criteria
The product does not meet the criteria for endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS **

3.1 Substances:

Not applicable

3.2 Mixtures:

Description: Oil(s)

Ingredients:

In accordance with Annex II (section 3) of Regulation (EC) No 1907/2006 (REACH), the product contains the following substances

*** Changes from previous version*

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS ** (continues)

Identification	Chemical name/Classification		Concentration
CAS: Not applicable EC: 918-481-9 Index: Not applicable REACH: 01-2119457273-39-XXXX	**Hydrocarbons, C10-C13-n-alkanes, isoalkanes, cyclic, with <2% aromatics**(1)	Self-classified	**70 - <75%**
	Regulation (EC) No 1272/2008	Asp. Tox. 1: H304; EUH066 - Hazard	
CAS: 64742-95-6 EC: 918-668-5 Index: Not applicable REACH: 01-2119455851-35-XXXX	**Hydrocarbons, C9, aromatic**(1)	Self-classified	**<2.5%**
	Regulation (EC) No 1272/2008	Aquatic Chronic 2: H411; Asp. Tox. 1: H304; Flam. Liq. 3: H226; STOT SE 3: H335; STOT SE 3: H336; EUH066 - Hazard	
CAS: 64-17-5 EC: 200-578-6 Index: 603-002-00-5 REACH: 01-2119457610-43-XXXX	**Ethanol**(1)	Self-classified	**0.5 - <1.5%**
	Regulation (EC) No 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger	
CAS: 55406-53-6 EC: 259-627-5 Index: 616-212-00-7 REACH: 01-2120762115-60-XXXX	**Butylcarbamate 3-iodo-2-propynyl**(1)	ATP ATP06	**<0.3%**
	Regulation (EC) No 1272/2008	Acute Tox. 3: H331; Acute Tox. 4: H302; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; Eye Dam. 1: H318; Skin Sens. 1: H317; STOT RE 1: H372 - Danger	
CAS: 22464-99-9 EC: 245-018-1 Index: Not applicable REACH: 01-2119979088-21-XXXX	**2-ethylhexanoic acid, zirconium salt**(1)	Self-classified	**<0.15%**
	Regulation (EC) No 1272/2008	Repr. 2: H361d - Warning	
CAS: 136-52-7 EC: 205-250-6 Index: Not applicable REACH: 01-2119524678-29-XXXX	**Bis(2-ethylhexanoate) cobalt**(1)	Self-classified	**<0.07%**
	Regulation (EC) No 1272/2008	Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360; Skin Sens. 1A: H317 - Danger	
CAS: 108-10-1 EC: 203-550-1 Index: 606-004-00-4 REACH: 01-2119473980-30-XXXX	**4-methylpentan-2-one**(2)	Self-classified	**<0.05%**
	Regulation (EC) No 1272/2008	Acute Tox. 4: H332; Carc. 2: H351; Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger	
CAS: 78-93-3 EC: 201-159-0 Index: 606-002-00-3 REACH: 01-2119457290-43-XXXX	**Butanone**(2)	ATP CLP00	**<0.05%**
	Regulation (EC) No 1272/2008	Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Hazard	

(1) A substance dangerous to health or the environment that meets the criteria set in Regulation (EU) No 2020/878.
(2) A substance for which an occupational exposure limit value has been set in the European Union

For more information on the hazardous nature of the substances, see sections 11, 12 and 16.

Other information:

Identification	M-factor	
Butylcarbamate 3-iodo-2-propynyl CAS: 55406-53-6 EC: 259-627-5	Acute	10
	Chronic	1

Identification	Specific concentration limit
Ethanol CAS: 64-17-5 EC: 200-578-6	percentage by weight >=50: Eye Irrit. 2 - H319

*** Changes from previous version*

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

Poisoning may result in symptoms after exposure and therefore when in doubt, after direct exposure to the chemical and if malaise persists, seek medical attention and show the safety data sheet for this product.

Inhalation:

This product does not contain substances classified as dangerous if inhaled. However, if symptoms of poisoning occur, it is recommended that the exposed person be taken away from the exposure area to fresh air and kept at rest. Medical attention should be sought if symptoms persist.

Skin contact:

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SECTION 4: FIRST AID MEASURES (continued)

Take off contaminated clothes and shoes, rinse the skin and, if possible, spray the exposed area with plenty of water and neutral soap. If exposure is significant, seek medical attention. If the mixture causes burns or frostbite, do not remove clothing that has adhered to the skin , as this may aggravate the injury. If blisters form on the skin, they should not be punctured as this increases the risk of inflammation.

Eye contact:

Rinse your eyes with plenty of water at room temperature for at least 15 minutes. Avoid closing and rubbing the eyes. To avoid further damage, any contact lenses should be removed from the eyes unless they are stuck to the eyes. In all cases, seek medical attention as soon as possible after flushing and take the product safety data sheet with you.

Ingestion/aspiration:

Do not vomit. If the patient vomits, the head should be kept upright to avoid the risk of aspiration. Keep patient at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

The acute and delayed effects are mentioned in sections 2 and 11.

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

Not applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Preferably use multi-purpose powder extinguishers (ABC powder) or alternatively foam or carbon dioxide (CO2) extinguishers.

Unsuitable extinguishing media:

It is NOT RECOMMENDED to use a direct water jet for extinguishing.

5.2 Special hazards arising from substances or mixtures:

Thermal decomposition or combustion can produce reaction products that can be highly toxic and therefore cause serious health hazards.

5.3 Advice for firefighters:

Depending on the intensity of the fire, full protective clothing and self-contained breathing apparatus may be required. A minimum level of safety equipment and first aid equipment (fire blankets, first aid kit, etc.) must be available.

Additional provisions:

Act in accordance with the internal emergency plan and the guidelines for dealing with accidents and other emergencies. Remove all sources of ignition. In the event of fire, cool containers and storage tanks containing products that are highly flammable, explosive and prone to BLEVE explosions due to high temperatures. The release of products used in firefighting into aquatic environments must be avoided.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate spills if this does not pose an additional risk to the persons carrying out the task. The area must be evacuated and unprotected persons kept away. Due to potential exposure to spillage, the use of personal protective equipment is mandatory (see section 8). As a priority, the formation of flammable vapour-air mixtures should be avoided, either by ventilation or by using an inert substance. Remove all sources of ignition. Eliminate electrostatic charges by connecting and earthing all conductive surfaces where static electricity can build up.

For emergency responders:

See section 8.

6.2 Environmental precautions:

Every effort must be made to prevent the product from entering aquatic environments. Sucked product must be stored properly in hermetically sealed containers. Exposure to the public or the environment must be reported to the competent authority.

6.3 Methods and material for containment and cleaning up:

Recommended measures:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

Soak the spill in sand or non-reactive absorbent and move it to a safe place. Do not absorb the substance into sawdust or other flammable absorbents. For more information on the disposal of the product, see section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions

Comply with existing legislation on the prevention of work-related risks. Storage containers must be kept hermetically sealed. Be prepared for spills and product residues, dispose of them safely (section 6). Avoid free spillage from the container. The area where dangerous products are handled must be kept organised and clean.

B.- Technical recommendations for the prevention of fires and explosions

Avoid evaporation of the product as it contains flammable substances which may form flammable vapour-air mixtures in the vicinity of ignition sources. Ignition sources (mobile phones, sparks, etc.) must be controlled, and the transfer from one container to another must be done slowly to avoid the build-up of electrostatic charges. For more information on conditions and substances to avoid, see section 10.

C.- Technical recommendations for the prevention of ergonomic and toxicological risks

Do not eat or drink when handling the product and wash your hands with appropriate cleaning products after handling.

D.- Technical recommendations for the prevention of environmental risks

Due to the hazardous nature of the product to the environment, it is recommended to handle it in an area that is sumped or fenced off from spills and to keep an absorbent in the vicinity of the product.

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage: Store in a cool, dry and ventilated place

B.- General storage conditions

Avoid heat and radiation sources, static electricity and contact with food. See section 10.5 for more information.

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendations regarding the use of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances for which occupational exposure limit values must be monitored in the

workplace: HTP values 2020:

Identification	Occupational exposure limits		
Quartz (RCS < 1%) CAS: 14808-60-7 EC: 238-878-4	HTP (8h)		0.05 mg/m³
	HTP (15 min)		
Butanone CAS: 78-93-3 EC: 201-159-0	HTP (8h)	20 ppm	60 mg/m³
	HTP (15 min)	100 ppm	300 mg/m³
4-methylpentan-2-one CAS: 108-10-1 EC: 203-550-1	HTP (8h)	20 ppm	80 mg/m³
	HTP (15 min)	50 ppm	210 mg/m³
Ethanol CAS: 64-17-5 EC: 200-578-6	HTP (8h)	1,000 ppm	1,900 mg/m³
	HTP (15 min)	1,300 ppm	2,500 mg/m³

DNEL (Workers):

Identification		Short-term exposure		Long-term exposure	
		Systematic	Local	Systematic	Local
Hydrocarbons, C9, aromatic	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 64742-95-6	Dermal	Not applicable	Not applicable	25 mg/kg	Not applicable
EC: 918-668-5	Inhalation	Not applicable	Not applicable	150 mg/m³	Not applicable

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification		Short-term exposure		Long-term exposure	
		Systematic	Local	Systematic	Local
Ethanol	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 64-17-5	Dermal	Not applicable	Not applicable	343 mg/kg	Not applicable
EC: 200-578-6	Inhalation	Not applicable	Not applicable	950 mg/m³	Not applicable
Butylcarbamate 3-iodo-2-propynyl CAS:	Oral	Not applicable	Not applicable	Not applicable	Not applicable
55406-53-6	Dermal	Not applicable	Not applicable	2 mg/kg	Not applicable
EC: 259-627-5	Inhalation	0.07 mg/m³	1.16 mg/m³	0.023 mg/m³	1.16 mg/m³
2-ethylhexanoic acid, zirconium salt CAS:	Oral	Not applicable	Not applicable	Not applicable	Not applicable
22464-99-9	Dermal	Not applicable	Not applicable	6.49 mg/kg	Not applicable
EC: 245-018-1	Inhalation	Not applicable	Not applicable	32.97 mg/m³	Not applicable
Bis(2-ethylhexanoate) cobalt CAS:	Oral	Not applicable	Not applicable	Not applicable	Not applicable
136-52-7	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
EC: 205-250-6	Inhalation	Not applicable	Not applicable	Not applicable	0.2351 mg/m³
4-Methylpentan-2-one	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 108-10-1	Dermal	Not applicable	Not applicable	11.8 mg/kg	Not applicable
EC: 203-550-1	Inhalation	208 mg/m³	208 mg/m³	83 mg/m³	83 mg/m³
Butanone	Oral	Not applicable	Not applicable	Not applicable	Not applicable
CAS: 78-93-3	Dermal	Not applicable	Not applicable	1.161 mg/kg	Not applicable
EC: 201-159-0	Inhalation	Not applicable	Not applicable	600 mg/m³	Not applicable

DNEL (General Public):

Identification		Short-term exposure		Long-term exposure	
		Systematic	Local	Systematic	Local
Hydrocarbons, C9, aromatic	Oral	Not applicable	Not applicable	11 mg/kg	Not applicable
CAS: 64742-95-6	Dermal	Not applicable	Not applicable	11 mg/kg	Not applicable
EC: 918-668-5	Inhalation	Not applicable	Not applicable	32 mg/m³	Not applicable
Ethanol	Oral	Not applicable	Not applicable	87 mg/kg	Not applicable
CAS: 64-17-5	Dermal	Not applicable	Not applicable	206 mg/kg	Not applicable
EC: 200-578-6	Inhalation	Not applicable	Not applicable	114 mg/m³	Not applicable
2-ethylhexanoic acid, zirconium salt	Oral	Not applicable	Not applicable	4.51 mg/kg	Not applicable
CAS: 22464-99-9	Dermal	Not applicable	Not applicable	3.25 mg/kg	Not applicable
EC: 245-018-1	Inhalation	Not applicable	Not applicable	8.13 mg/m³	Not applicable
Bis(2-ethylhexanoate) cobalt	Oral	Not applicable	Not applicable	0.175 mg/kg	Not applicable
CAS: 136-52-7	Dermal	Not applicable	Not applicable	Not applicable	Not applicable
EC: 205-250-6	Inhalation	Not applicable	Not applicable	Not applicable	0.037 mg/m³
4-Methylpentan-2-one	Oral	Not applicable	Not applicable	4.2 mg/kg	Not applicable
CAS: 108-10-1	Dermal	Not applicable	Not applicable	4.2 mg/kg	Not applicable
EC: 203-550-1	Inhalation	155.2 mg/m³	155.2 mg/m³	14.7 mg/m³	14.7 mg/m³
Butanone	Oral	Not applicable	Not applicable	31 mg/kg	Not applicable
CAS: 78-93-3	Dermal	Not applicable	Not applicable	412 mg/kg	Not applicable
EC: 201-159-0	Inhalation	Not applicable	Not applicable	106 mg/m³	Not applicable

PNEC:

Identification				
Ethanol	STP	580 mg/L	Fresh water	0.96 mg/L
CAS: 64-17-5	Soil	0.63 mg/kg	Marine water	0.79 mg/L
EC: 200-578-6	Intermittent	2.75 mg/L	Sediment (Fresh water)	3.6 mg/kg
	Oral	0.38 g/kg	Sediment (Marine water)	2.9 mg/kg
Butylcarbamate 3-iodo-2-propynyl CAS:	STP	0.44 mg/L	Fresh water	0.001 mg/L
55406-53-6	Soil	0.005 mg/kg	Marine water	0 mg/L
EC: 259-627-5	Intermittent	0.001 mg/L	Sediment (Fresh water)	0.017 mg/kg
	Oral	Not applicable	Sediment (Marine water)	0.002 mg/kg

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Identification				
Bis(2-ethylhexanoate) cobalt CAS:	STP	0.37 mg/L	Fresh water	0.00062 mg/L
136-52-7	Soil	10.9 mg/kg	Marine water	0.00236 mg/L
EC: 205-250-6	Intermittent	Not applicable	Sediment (Fresh water)	53.8 mg/kg
	Oral	Not applicable	Sediment (Marine water)	69.8 mg/kg
4-Methylpentan-2-one	STP	27.5 mg/L	Fresh water	0.6 mg/L
CAS: 108-10-1	Soil	1.3 mg/kg	Marine water	0.06 mg/L
EC: 203-550-1	Intermittent	1.5 mg/L	Sediment (Fresh water)	8.27 mg/kg
	Oral	Not applicable	Sediment (Marine water)	0.83 mg/kg
Butanone	STP	709 mg/L	Fresh water	55.8 mg/L
CAS: 78-93-3	Soil	22.5 mg/kg	Marine water	55.8 mg/L
EC: 201-159-0	Intermittent	55.8 mg/L	Sediment (Fresh water)	284.74 mg/kg
	Oral	1 g/kg	Sediment (Marine water)	284.7 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventive measure, the use of "CE marked" personal protective equipment is recommended. For more information on personal protective equipment (storage, use, cleaning, maintenance, protection class, etc.), see the brochures provided by the manufacturers. The instructions given here apply to the product as such. The safety procedures for a diluted product may vary depending on the degree of dilution, the use, the method used, etc. When determining the obligation to install emergency showers and/or eye rinsing equipment in storage areas, the applicable regulations for the storage of chemical products will be taken into account. See sections 7.1 and 7.2 for more information.

B.- Respiratory protection

The use of personal protective equipment is necessary if the substance produces a mist or if occupational exposure limit values are exceeded.

C.- Hand protection.

Not applicable

D.- Eye and face protection

Not applicable

E.- Body protection

Not applicable

F.- Additional emergency measures

No additional emergency measures are necessary.

Environmental exposure controls:

Under community legislation on environmental protection, it is recommended to avoid throwing the product and its packaging into the environment. See section 7.1.D. for more information.

Volatile organic compounds:

In accordance with Directive 2010/75/EU, the product has the following characteristics:

VOCs (delivery):	73.82% by weight
VOC content at 20 ºC:	626.76 kg/m³ (626.76 g/L)
Average carbon number:	11.71
Average molecular weight:	128.02 g/mol

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Viscous
Colour:	According to the labelling

*Not applicable due to product characteristics, no information on product hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Odour:	Unknown
Odour threshold:	Not applicable *
Volatility:	
Boiling temperature at normal pressure:	175 - 225 ºC
Vapour pressure at 20 ºC:	Not applicable *
Vapour pressure at 50 ºC:	Not applicable *
Evaporation rate at 20 ºC:	Not applicable *
Product description:	
Density at 20 ºC:	849 kg/m³
Relative density at 20 ºC:	0.849
Dynamic viscosity at 20 ºC:	Not applicable *
Kinematic viscosity at 20 ºC:	Not applicable *
Kinematic viscosity at 40 ºC:	>20.5 mm²/s
Concentration:	Not applicable *
pH:	Not applicable *
Vapour density at 20 ºC:	Not applicable *
Partition coefficient n-octanol/water at 20 ºC:	Not applicable *
Solubility in water at 20 ºC:	Not applicable *
Solubility properties:	Insoluble in water
Decomposition temperature:	Not applicable *
Melting point/freezing point:	Not applicable *
Flammability:	
Flash point:	Non-flammable (>60 ºC)
Flammability (solid, gases):	Not applicable *
Auto-ignition temperature:	>200 ºC
Lower flammability limit:	Not applicable *
Upper flammability limit:	Not applicable *
Particle characteristics:	
Median equivalent diameter:	Not applicable

9.2 Other information:

Information with regard to physical hazard classes:

Explosiveness:	Not applicable *
Flammability:	Not applicable *
Metal-corrosive substances and mixtures:	Not applicable *
Combustion temperature:	Not applicable *
Total percentage (by mass) of aerosol-flammable components:	Not applicable *
Other safety characteristics:	
Surface tension at 20 ºC:	Not applicable *
Refractive index:	Not applicable *

*Not applicable due to product characteristics, no information on product hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected if the technical instructions for the storage of chemicals are followed. See section 7.

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SECTION 10: STABILITY AND REACTIVITY (continued)

10.2 Chemical stability:

Chemically stable under the conditions of use, handling and storage specified in the instructions.

10.3 Possibility of hazardous reactions:

No hazardous reactions leading to excessive temperatures or pressure are expected under the conditions specified in the instructions.

10.4 Conditions to avoid:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precautionary measure	Precautionary measure	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising substances	Flammable substances	Other
Avoid strong acids	Not applicable	Avoid direct exposure	Not applicable	Avoid strong bases

10.6 Hazardous decomposition products:

See sections 10.3, 10.4 and 10.5 for a detailed description of the decomposition products. Depending on the conditions of decomposition, complex mixtures of chemical substances may be released as a result of decomposition: carbon dioxide (CO2),

SECTION 11: TOXICOLOGICAL INFORMATION **

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

There is no experimental evidence-based data on the toxicological properties of the mixture

Adverse health effects:

If exposure is repeated, prolonged or exceeds the occupational exposure limit values, the product may have adverse health effects depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous if ingested. See section 3 for more information.
- Corrosivity/Irritability: Based on the available information, the classification criteria are not met, and the product does not include substances classified as dangerous in terms of this effect. For more information, see section 3.

B- Inhalation (acute effect):

- Acute toxicity: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous if inhaled. See section 3 for more information.
- Corrosivity/Irritability: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous if inhaled. See section 3 for more information.

C- Skin and eye contact (acute effect):

- Skin contact: Based on the available information, the classification criteria are not met, and the product does not contain any substances classified as dangerous after contact with skin. See section 3 for more information.
- Eye contact: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous in terms of this effect. For more information, see section 3.

D- CMR effects (carcinogenicity, mutagenicity and reproductive toxicity):

- Carcinogenicity: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous in terms of carcinogenic effects. See section 3 for more information.
  IARC: 4-Methylpentan-2-one (2B); Ethanol (1); Hydrocarbons, C9, aromatic (3); Polyethylene (3); Bis(2-ethylhexanoate) cobalt (2B)
- Mutagenicity: Based on the available information, the classification criteria are not met, and the product does not contain any substances classified as dangerous in terms of this effect. For more information, see section 3.
- Reproductive toxicity: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous in terms of this effect. For more information, see section 3.

E- Sensitisation:

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SECTION 11: TOXICOLOGICAL INFORMATION** (continued)

- Inhalation: Based on the available information, the classification criteria are not met, and the product does not contain any substances classified as dangerous in terms of sensitisation. See section 3 for more information.
- Skin contact: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous in terms of sensitisation. See section 3 for more information.

F- Specific target organ toxicity (STOT) - single exposure:

Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous if inhaled. See section 3 for more information.

G- Specific target organ toxicity (STOT) - repeated exposure:

- Specific target organ toxicity (STOT) - repeated exposure: Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous with repeated exposure. See section 3 for more information.
- Skin contact: Repeated exposure may cause drying or cracking of the skin.

H- Aspiration:

Based on the available information, the classification criteria are not met, but the product does contain substances classified as dangerous in terms of this effect. For more information, see section 3.

Other information:

Not applicable

Information on the toxicity of substances:

Identification	Acute toxicity		Genus
Ethanol	LD50 Oral	6,200 mg/kg	Rat
CAS: 64-17-5	LD50 Dermal	20,000 mg/kg	Rabbit
EC: 200-578-6	LC50 Inhalation	124.7 mg/L (4 h)	Rat
Hydrocarbons, C9, aromatic	LD50 Oral	>2,000 mg/kg	
CAS: 64742-95-6	LD50 Dermal	>2,000 mg/kg	
EC: 918-668-5	LC50 Inhalation	>20 mg/L	
Hydrocarbons, C10-C13-n-alkanes, isoalkanes, cyclic, with <2% aromatics	LD50 Oral	>2,000 mg/kg	
CAS: Not applicable	LD50 Dermal	>2,000 mg/kg	
EC: 918-481-9	LC50 Inhalation	>20 mg/L	
Butylcarbamate 3-iodo-2-propynyl	LD50 Oral	1,100 mg/kg	Rat
CAS: 55406-53-6	LD50 Dermal	2,100 mg/kg	Rabbit
EC: 259-627-5	LC50 Inhalation	3 mg/L (ATEi)	
2-ethylhexanoic acid, zirconium salt	LD50 Oral	2,043 mg/kg	Rat
CAS: 22464-99-9	LD50 Dermal	>2,000 mg/kg	
EC: 245-018-1	LC50 Inhalation	>5 mg/L	
Bis(2-ethylhexanoate) cobalt	LD50 Oral	>2,000 mg/kg	
CAS: 136-52-7	LD50 Dermal	>2,000 mg/kg	
EC: 205-250-6	LC50 Inhalation	>5 mg/L	
4-Methylpentan-2-one	LD50 Oral	>2,000 mg/kg	
CAS: 108-10-1	LD50 Dermal	>2,000 mg/kg	
EC: 203-550-1	LC50 Inhalation	11 mg/L (4 h)	Rat
Butanone	LD50 Oral	4,000 mg/kg	Rat
CAS: 78-93-3	LD50 Dermal	6,400 mg/kg	Rabbit
EC: 201-159-0	LC50 Inhalation	23.5 mg/L (4 h)	Rat

Estimate of acute toxicity (ATE mix):

ATE mix		Ingredients with unknown toxicity
Oral	>2,000 mg/kg (Calculation method)	Not applicable
Dermal	>2,000 mg/kg (Calculation method)	Not applicable
Inhalation	1,013.51 mg/L (4 h) (Calculation method)	0%

11.2 Information on other hazards:

Endocrine disruptive properties

The product does not meet the criteria for endocrine disrupting properties.

*** Changes from previous version*

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SECTION 11: TOXICOLOGICAL INFORMATION ** (continued)

Other information

Not applicable

*** Changes from previous version*

SECTION 12: ECOLOGICAL INFORMATION **

There is no experimental evidence-based information on the environmental hazards of the mixture.

12.1 Toxicity:

Acute toxicity:

Identification		Concentration	Species	Genus
Hydrocarbons, C9, aromatic	LC50	>1 - 10 (96 h)		Fish
CAS: 64742-95-6	EC50	>1 - 10 (48 h)		Crustacean
EC: 918-668-5	EC50	>1 - 10 (72 h)		Seaweed
Ethanol	LC50	11,000 mg/L (96 h)	Alburnus alburnus	Fish
CAS: 64-17-5	EC50	9,268 mg/L (48 h)	Daphnia magna	Crustacean
EC: 200-578-6	EC50	1,450 mg/L (192 h)	Microcystis aeruginosa	Seaweed
Butylcarbamate 3-iodo-2-propynyl	LC50	0.07 mg/L (96 h)	Oncorhynchus mykiss	Fish
CAS: 55406-53-6	EC50	0.09 mg/L (96 h)	Mysidopsis bahia	Crustacean
EC: 259-627-5	EC50	0.05 mg/L (72 h)	Scenedesmus subspicatus	Seaweed
2-ethylhexanoic acid, zirconium salt	LC50	270 mg/L (96 h)	N/A	Fish
CAS: 22464-99-9	EC50	Not applicable		
EC: 245-018-1	EC50	Not applicable		
Bis(2-ethylhexanoate) cobalt	LC50	>0.1 - 1 (96 h)		Fish
CAS: 136-52-7	EC50	>0.1 - 1 (48 h)		Crustacean
EC: 205-250-6	EC50	>0.1 - 1 (72 h)		Seaweed
Butanone	LC50	3,220 mg/L (96 h)	Pimephales promelas	Fish
CAS: 78-93-3	EC50	5,091 mg/L (48 h)	Daphnia magna	Crustacean
EC: 201-159-0	EC50	4,300 mg/L (168 h)	Scenedesmus quadricauda	Seaweed

Chronic toxicity:

Identification		Concentration	Species	Genus
Ethanol	NOEC	250 mg/L	Danio rerio	Fish
CAS: 64-17-5 EC: 200-578-6	NOEC	2 mg/L	Ceriodaphnia dubia	Crustacean
Butylcarbamate 3-iodo-2-propyny	NOEC	0.0084 mg/L	Pimephales promelas	Fish
CAS: 55406-53-6 EC: 259-627-5	NOEC	0.0499 mg/L	Daphnia magna	Crustacean

*** Changes from previous version*

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SECTION 12: ECOLOGICAL INFORMATION **continued

Identification	Concentration		Species	Genus
2-ethylhexanoic acid, zirconium salt	NOEC	Not applicable		
CAS: 22464-99-9 EC: 245-018-1	NOEC	25 mg/L	Daphnia magna	Crustacean
Bis(2-ethylhexanoate) cobalt	NOEC	0.21 mg/L	Pimephales promelas	Fish
CAS: 136-52-7 EC: 205-250-6	NOEC	0.1697 mg/L	Aeolosoma sp.	Crustacean
4-methylpentan-2-one	NOEC	Not applicable		
CAS: 108-10-1 EC: 203-550-1	NOEC	78 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Identification	Degradability		Biodegradability	
Ethanol	BOD5	Not applicable	Concentration	100 mg/L
CAS: 64-17-5	COD	Not applicable	Duration	14 days
EC: 200-578-6	BOD5/COD	Not applicable	%Biodegradable	89%
2-ethylhexanoic acid, zirconium salt	BOD5	Not applicable	Concentration	20 mg/L
CAS: 22464-99-9	COD	Not applicable	Duration	28 days
EC: 245-018-1	BOD5/COD	Not applicable	%Biodegradable	99%
4-Methylpentan-2-one	BOD5	2.06 g O2/g	Concentration	100 mg/L
CAS: 108-10-1	COD	2.16 g O2/g	Duration	14 days
EC: 203-550-1	BOD5/COD	0.95	%Biodegradable	84%
Butanone	BOD5	2.03 g O2/g	Concentration	Not applicable
CAS: 78-93-3	COD	2.31 g O2/g	Duration	20 days
EC: 201-159-0	BOD5/COD	0.88	%Biodegradable	89%

12.3 Bioaccumulative potential:

Identification	Bioaccumulation potential	
Ethanol	BCF	3
CAS: 64-17-5	Log POW	-0.31
EC: 200-578-6	Potential	Low
Butylcarbamate 3-iodo-2-propynyl	BCF	36
CAS: 55406-53-6	Log POW	2.4
EC: 259-627-5	Potential	Moderate
2-ethylhexanoic acid, zirconium salt	BCF	
CAS: 22464-99-9	Log POW	2.96
EC: 245-018-1	Potential	

** *Changes from previous version*

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SECTION 12: ECOLOGICAL INFORMATION **continued

Identification	Bioaccumulative potential	
4-methylpentan-2-one	BCF	2
CAS: 108-10-1	Log POW	1.31
EC: 203-550-1	Potential	Low
Butanone	BCF	3
CAS: 78-93-3	Log POW	0.29
EC: 201-159-0	Potential	Low

12.4 Mobility in soil:

Identification	Absorption and/or desorption		Volatility	
Ethanol	Koc	1	Henry	4.61E-1 Pa-m³/mol
CAS: 64-17-5	Conclusion	Very high	Dry land	Yes
EC: 200-578-6	Surface tension	2.339E-2 N/m (25 ºC)	Wet land	Yes
2-ethylhexanoic acid, zirconium salt	Koc	Not applicable	Henry	2.94E-1 Pa-m³/mol
CAS: 22464-99-9	Conclusion	Not applicable	Dry land	Yes
EC: 245-018-1	Surface tension	Not applicable	Wet land	Yes
4-Methylpentan-2-one	Koc	Not applicable	Henry	Not applicable
CAS: 108-10-1	Conclusion	Not applicable	Dry land	Not applicable
EC: 203-550-1	Surface tension	2.35E-2 N/m (25 ºC)	Wet land	Not applicable
Butanone	Koc	30	Henry	5.77 Pa-m³/mol
CAS: 78-93-3	Conclusion	Very high	Dry land	Yes
EC: 201-159-0	Surface tension	2.396E-2 N/m (25 ºC)	Wet land	Yes

12.5 Results of PBT and vPvB assessment :

The product does not meet PBT/vPvB criteria

12.6 Endocrine disrupting properties

The product does not meet the criteria for endocrine disrupting properties.

12.7 Other adverse effects:

** *Changes from previous version*

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class (Commission Regulation (EU) No 1357/2014)
08 01 11*	waste paint and varnish containing organic solvents or other dangerous substances	Dangerous

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SECTION 13: DISPOSAL CONSIDERATIONS(continued)

Type of waste (Commission Regulation (EU) No 1357/2014):

HP14 Dangerous for the environment

Waste management (disposal and evaluation):

Talk to your licensed waste handler about recovery and disposal in accordance with Annexes 1 and 2 (Directive 2008/98/EC). In accordance with Codes 15 01 (2014/955/EU), if the packaging has been in direct contact with the product, it should be treated in the same way as the product, otherwise it should be treated as non-hazardous waste. Discharge into drains is not recommended. See section 6.2.

Legislation on waste management:

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH), community or country-specific provisions relating to waste management are indicated.

Community legislation: Directive 2008/98/EC, 2014/955/EU, Commission Regulation (EU) No 1357/2014
National legislation: Waste Act, 646/2011, 1104/2011, 195/2015, 1178/2013, 25/2014, 410/2014, 528/2014.

SECTION 14: TRANSPORT INFORMATION

The product is not subject to the transport regulations for dangerous goods. (ADR/RID, IMDG, IATA)

SECTION 15: REGULATORY INFORMATION

15.1 The safety, health and environmental regulations/legislation specific for the substance or mixture:

Regulation (EC) No 528/2012: contains a preservative to protect the original characteristics of the treated product. Contains Butylcarbamate 3-iodo-2-propynyl.

List of substances of very high concern under Regulation (EC) No 1907/2006 (REACH): Not applicable REACH

Annex XIV substances and expiry date: Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable

Article 95, REGULATION (EU) No 528/2012: Ethanol (product types 1, 2, 4) ; Butylcarbamate 3-iodo-2-propynyl (product types 6, 7, 8, 9, 10, 13)

REGULATION (EU) No 649/2012 concerning the export and import of dangerous chemicals: Not applicable

Seveso III:

Not applicable

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and products (REACH, Annex XVII, etc...):

Not to be used in:
-decorative items intended to produce light or colour effects using different phases, such as decorative lamps and ashtrays,
-tricks and jokes,
-games intended for one or more participants or in any item intended for that purpose which is also decorative.
Occupational exposure to respirable crystalline silica shall be controlled in accordance with Directive (EU) 2019/130.

Special provisions for the protection of people and the environment:

It is recommended that the information contained in this safety data sheet should be used as a starting point for assessing the risks arising from local conditions in order to determine the necessary risk control measures for the handling, use, storage and disposal of this product.

Other legislation:

- CONTINUES ON THE NEXT PAGE -

SECTION 15: REGULATORY INFORMATION(continued)

Chemicals Act 599/2013
Chemicals Act 746/2016 62 §.
Decree on the names of substances (in Finnish/Swedish) 5/2010, amendment 1123/2010
Government Decree on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products 837/2005, as amended 813/2010, 6/2011, 269/2012 Government Decree on the limitation of emissions into the air from certain activities and installations using organic solvents (64/2015), amended by Decree 167/2018.
Waste Act 646/2011, as amended Government Decree on Waste (179/2012)
Transport of Dangerous Goods Act (719/1994, amendment 1541/2019)
Government Decree on the transport of dangerous goods by road (194/2002, amendment 578/2021)
Government Decree on the demonstration of conformity of packaging, containers and bulk containers intended for the transport of dangerous goods and on the inspection bodies performing related tasks (124/2015, amendment 778/2015)

15.2 Chemical safety assessment:

The supplier has not carried out a chemical safety assessment.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been prepared in accordance with Regulation (EC) No 1907/2006 (COMMISSION REGULATION (EU) 2020/878), Annex II (Guide to the compilation of safety data sheets).

Changes to the safety data sheet that affect risk management measures:

COMMISSION REGULATION (EU) 2020/878
COMPOSITION AND INFORMATION ON INGREDIENTS (SECTION 3, SECTION 11, SECTION 12):

- Added substances
  - Bis(2-ethylhexanoate) cobalt (136-52-7)
  - Hydrocarbons, C10-C13-n-alkanes, isoalkanes, cyclic, with <2% aromatics
- Substances removed
  - 2-Butanone oxime (96-29-7)

CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):

- Substances contained in EUH208:
  - Added substances
    - Bis(2-ethylhexanoate) cobalt (136-52-7)
  - Substances removed
    - 2-Butanone oxime (96-29-7)

Texts of the legislative clauses in section 2:

H412: H412 - Harmful to aquatic organisms with long-term adverse effects.

Texts of the legislative clauses in section 3:

These statements are not related to the product itself, they are given for information and refer to the components mentioned in section 3.

CLP Regulation (EC) No 1272/2008:

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SECTION 16: OTHER INFORMATION (continued)

Acute Tox. 3: H331 - Toxic if inhaled.
Acute Tox. 4: H302 - Harmful if ingested.
Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic organisms.
Aquatic Chronic 1: H410 - Very toxic to aquatic organisms with long-term adverse effects.
Aquatic Chronic 2: H411 - Very toxic to aquatic organisms with long-term adverse effects.
Aquatic Chronic 3: H412 - Harmful to aquatic organisms with long-term adverse effects.
Asp. Tox. 1: H304 - May be fatal if ingested and inhaled.
Carc. 2: H351 - Suspected of causing cancer.
Eye Dam. 1: H318 - Serious eye damage.
Eye Irrit. 2: H319 - Very irritating to eyes.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Repr. 1B: H360 - May impair fertility or damage the foetus.
Repr. 2: H361d - Suspected of damaging the foetus.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory tract irritation.
STOT SE 3: H336 - May cause drowsiness and dizziness.

Classification procedure:

Aquatic Chronic 3: Calculation method

Advice on training:

It is recommended that persons handling this product have a minimum level of training in occupational safety and prevention measures to facilitate understanding and interpretation of this safety data sheet and product labelling.

Main sources of information:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International Maritime Dangerous Goods Code
IATA: The International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical oxygen demand
BOD5: Biological oxygen demand over 5 days
BCF: Bioconcentration factor
LD50: Lethal dose 50, at which half of the test animals die
LC50: Lethal concentration 50, at which half of the test animals die
EC50: Effective concentration 50, at which an effect is observed in half of the cases Log
Pow: Octanol/water partition coefficient
Koc: Organic hydrocarbon partition coefficient
UFI: Unique formula identifier
IARC: International Agency for Research on Cancer

- END OF THE SAFETY DATA SHEET -