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## Section 1 –Identification: Product identifier and chemical identity

1.1 Product identifier
Trade name: <u>Büst Artdeco Fixative</u>
Product code: Y-470-04
1.2 Relevant identified uses of the substance or mixture and uses advised against application of the substance / the mixture Lacquer
General purpose aerosol paint for indoor and outdoor use, avoid using on dirty surface & human body, keep out reach of child
1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Aristo Technology Corp. Ltd.
12, XINGCUN RD., XIN FENG INDUSTRIAL AREA, XIN FENG CITY, JIANGXI, CHINA
Tele-Nr. (++86)- 755-22214189
Fax-Nr. (++86)- 755-22214186
1.4 Emergency telephone number: +86-755-22214189

## Section 2 – Hazard identification

## •2.1 Classification of the substance or mixture •Classification according to Regulation (EC) No 487/2013



GHS02 flame Flam. Aerosol 1 H222 Extremely flammable aerosol. Flam. Aerosol 1 H229: Pressurised container: May burst if heated



Acute Tox. 4 H312 Harmful in contact with skin. Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

Information concerning particular hazards for human and environment:

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

Warning! Pressurized container.

### ·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

### ·Labeling according to Regulation (EC) No 487/2013

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

### ·Hazard pictograms



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GHS02 GHS07
•Signal word Danger
·Hazard-determining components of labeling:
No Data Available
·Hazard statements
H222 Extremely flammable aerosol.
H229: Pressurised container: May burst if heated
H312 Harmful in contact with skin
H332 Harmful if inhaled.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
·Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents / container in accordance with regional regulations.
·Additional information:
Buildup of explosive mixtures possible without sufficient ventilation.
-2.3 Other hazards
•Results of PBT and vPvB assessment
•PBT: Not applicable.
·vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

INGREDIENTS	Annex VI Index Number	CAS NO INDEX	ENIECS	Classification	WT(%)
Dimethyl Ether	603-019-00-8	115-10-6	204-065-8	Flam. Gas 1:H220	28~30
Acrylic Resin		N/A	N/A	Not Classified	14~17
Ethyl acetate	607-22-00-5	141-78-6	205-500-4	Flam. Liq. 2: H225; Eye Irrit. 2:H319; STOT SE 3:H336	11~12
Dimethyl carbonate	607-13-00-6	616-38-6	210-478-4	Flam. Liq. 2: H225	8~9
Butyl acetate	607-25-00-1	123-86-4	204-658-1	Flam. Liq. 3: H226; STOT SE 3:H336	8~10
Acetone	606-001-00-8	67-64-1	200-662-2	Flam. Liq. 2: H225; Eye Irrit. 2:H319; STOT SE 3:H336	4~5
Dimethoxymethane	N/A	109-87-5	203-714-2	Flam. Liq. 3: H225	4~6
Epoxy Resin	N/A	N/A	N/A	Acute Tox. 4: H302	4~6
Butyl glycol	603-014-00-0	111-76-2	203-905-0	Acute Tox. 3: H311; Acute Tox. 3: H331	4~5

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#### · 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:

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

### · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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.
- · After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- $\cdot$  4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## **Section 5 - Fire-fighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

Water spray(large fires only), foam, dry chemical or carbon dioxide.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- · 5.3 Advice for firefighters -
- · Protective equipment: Mouth respiratory protective device.

## Section 6 - Accidental release measures

### · 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system.

### · 6.3 Methods and material for containment and cleaning up:

Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

### $\cdot$ 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.

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## Section 7 - Handling and Storage

### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

### Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packaging with pressurized containers.

• Information about storage in one common storage facility: Not required.

### Further information about storage conditions:

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Storage class: 2B
- 7.3 Specific end use(s) No further relevant information available.

## Section 8 - Exposure controls and personal protection

Ingredients with limit values that require monitoring at the workplace:		
Butyl Acetate (CAS#123-86-4) TWA: 713 mg/m <sup>3</sup> (150ppm)		
	STEL: 950 mg/m <sup>3</sup> (200ppm)	
Acetone (CAS#67-64-1)	TWA: 1780 mg/m <sup>3</sup> (750ppm)	
	STEL: 2380 mg/m <sup>3</sup> (1000ppm)	
Ethyl Acetate (CAS#141-78-6)	TWA: 720 mg/m <sup>3</sup>	
	STEL: 1440 mg/m <sup>3</sup>	
Dimethoxymethane (CAS#109-87-5)	TWA: 3100 mg/m <sup>3</sup>	
	STEL: 3900 mg/m <sup>3</sup>	
Dimethyl Ether (CAS#115-10-6)	TWA: 760 mg/m <sup>3</sup>	
	STEL: 950 mg/m <sup>3</sup>	
Butyl glycol(CAS#111-76-2)	TWA: 120 mg/m <sup>3</sup> (25 ppm )	
	STEL: 200 mg/m <sup>3</sup>	

### · 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.

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Do not inhale gases / fumes / aeroso	ls.	
Avoid contact with the skin.		
Avoid contact with the eyes and skin		
· Respiratory protection:		
Not necessary if room is well-ventila	ted.	
Otherwise, filter class A / P2 or self of	contained.	
· Protection of hands:		
Protective gloves		
Solvent resistant gloves		
In case of contact with spray dust pro-	otective gloves made of butyl should be ι	used (min. 0.4 mm thick), e.g.
KCL Camatril, article no. 898 or simil	ar products	
The glove material has to be imperm	eable and resistant to the product/ the s	substance/ the preparation.
Selection of the glove material on co	nsideration of the penetration times, rat	es of diffusion and the
degradation		
$\cdot$ Material of gloves <code>Butyl</code> rubber, <code>BR</code>		
$\cdot$ Penetration time of glove material		
Butyl rubber gloves with a thickness	of 0.4 mm are resistant to:	
Acetone: 480 min		
Butyl acetate: 60 min		
Ethyl acetate: 170 min		
<ul> <li>Eye protection: Safety glasses</li> </ul>		

## Section 9 - Physical and chemical properties

Appearance:	Viscous liquid
Odor:	Solvent
Odor threshold:	Not determined
pH:	Not determined
Self-igniting	Product is not self-igniting.
Melting point/freezing point:	<-20°C
Boiling point:	>60°C
Flash point:	Not determined
Evaporation rate:	Not determined
Flammability (solid, gas):	Flammable
Upper/lower flammability or explosive limits:	Not determined
Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.93~0.95g/cm <sup>3</sup>
Vapour density	Not determined
Solubility:	Not water soluble. Re-dispersible in aromatic
	solvents or ketones.
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined

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Explosive properties:
Oxidising properties:
Partition coefficient (n-octanol/water)

Not determined Not determined Not determined

## Section 10 - Stability and reactivity

• 10.1 Reactivity: Stable under recommended storage and handling conditions.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## Section 11 - Toxicological information

### · 11.1 Information on toxicological effects

•	Acute	toxicity:	
	/ icate	concercy.	

· LC <sub>50</sub> /LD <sub>50</sub> values relevant for classification:				
INGREDIENTS				
Dimethyl Ether (CAS#115-10-6)	LC <sub>50</sub> : 386 PPM/30min(Mice)	Inhalation		
Ethyl Acetate (CAS#141-78-6)	LC <sub>50</sub> : 45000 mg/m <sup>3</sup> /2H(Mice)	Inhalation		
	LD <sub>50</sub> : 4100 mg/kg(Mice)	Oral		
Butyl Acetate (CAS#123-86-4)	LC <sub>50</sub> : 2000 PPM/4h(Rat)	Inhalation		
	LD <sub>50</sub> : 10768 mg/kg(Rat)	Oral		
Acetone (CAS#67-64-1)	LC <sub>50</sub> : 50100 mg/m <sup>3</sup> /8h(Rat)	Inhalation		
	LD <sub>50</sub> : 5800 mg/kg(Rat)	Oral		
Butyl glycol(CAS#111-76-2)	LC <sub>50</sub> : 450 PPM/4h(Rat)	Inhalation		
	LD <sub>50</sub> : 470 mg/kg(Rat)	Oral		
Dimethyl Carbonate(CAS#616-38-6)	LD <sub>50</sub> : 13000 mg/kg(Rat)	Oral		
	LD <sub>50</sub> : 6000 mg/kg(Mice)	Oral		
Dimethoxymethane (CAS#109-87-5)	LD <sub>50</sub> : 505708mg/kg(Rabbit)	Skin		

### • Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version: Harmful, Irritant, Vapors have narcotic effect.

## Section 12 - Ecological information

### • 12.1 Toxicity

Ingredient:	Persistence - Water/Soil:	Persistence – Air:	<b>Bioaccumulation:</b>	Mobility:
Acetone	Low	High	Low	High
Dimethyl Ether	Low	No Data Available	Low	High
Ethyl Acetate	Low	High	Low	High

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Butyl Acetate	Low	Medium	Low	High
Dimethoxymethane	Low	No Data Available	Low	High

## • 12.2 Persistence and degradability ACETONE

Fish LC50 (96hr.) (mg/l): 8300- 40000 Daphnia magna EC50 (48hr.) (mg/l): 10 log Kow (Prager 1995): - 0.24 log Kow (Sangster 1997): - 0.24 log Pow (Verschueren 1983): - 0.24 Half-life Soil - High (hours): 168 Half-life Soil - Low (hours): 24 Half-life Air - High (hours): 2790 Half-life Air - Low (hours): 279 Half-life Surface water - High (hours): 168 Half-life Surface water - Low (hours): 24 Half-life Ground water - High (hours): 336 Half-life Ground water - Low (hours): 48 Aqueous biodegradation - Aerobic - High (hours): 168 Aqueous biodegradation - Aerobic - Low (hours): 24 Aqueous biodegradation - Anaerobic - High (hours): 672 Aqueous biodegradation - Anaerobic - Low (hours): 96 Aqueous biodegradation - Removal secondary treatment - High (hours): 75% Aqueous biodegradation - Removal secondary treatment - Low (hours): 54% Aqueous photolysis half-life - High (hours): 270 Photooxidation half-life water - High (hours): 3.97E+06 Photooxidation half-life water - Low (hours): 9.92E+04 Photooxidation half-life air - High (hours): 2790 Photooxidation half-life air - Low (hours): 279 For Acetone: Log Kow : -0.24; Half-life (hr) air : 312-1896; Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55% COD: 1.12-2.07 ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

Atmospheric Fate: Acetone preferentially locates in the air compartment when released to the environment. In air, acetone is lost by photolysis and reaction with photochemically produced hydroxyl radicals; the estimated half-life of these combined processes is about 22 days. Air Quality Standards: none available.

Terrestrial Fate: Very little acetone is expected to reside in soil, biota, or suspended solids and has low propensity for soil absorption and a high preference for moving through the soil and into the ground water.

Acetone released to soil volatilizes although some may leach into the ground where it rapidly biodegrades. Soil Guidelines: none available.

Aquatic Fate: A substantial amount of acetone can also be found in water. Acetone is highly soluble and slightly persistent in water, with a half-life of about 20 hours Drinking Water Standard: none available.

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Ecotoxicity: Acetone does not concentrate in the food chain, is minimally toxic to aquatic life and is considered to be readily biodegradable. Testing shows that acetone exhibits a low order of toxicity for brook trout, fathead minnow, Japanese quail, ring-neck pheasant and water fleas. Low toxicity for aquatic invertebrates. For aquatic plants, NOEC: 5400-7500 mg/L. Acetone vapours were shown to be relatively toxic to flour beetle and flour moths and their eggs. The direct application of acetone liquid to the body of the insects or surface of the eggs did not, however, cause any mortality. The ability of acetone to inhibit cell multiplication has been examined in a wide variety of microorganisms. Mild to moderate toxicity for acetone. The only exception to these findings was the results obtained with the flagellated protozoa (Entosiphon sulcatum).

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones. Reactions with water are reversible with no permanent change in the structure of the ketone substrate. Ketones are stable to water under ambient environmental conditions. When pH levels are greater than 10, condensation reactions can occur which produce higher molecular weight products. Under ambient conditions of temperature, pH, and low concentration, these condensation reactions are unfavourable. Based on its reactions in air, it seems likely that ketones undergo photolysis in water.

Terrestrial Fate: It is probable that ketones will be biodegraded by micro-organisms in soil and water.

Ecotoxicity: Ketones are unlikely to bioconcentrate or biomagnify.

### **N-BUTYL ACETATE**

Fish LC50 (96hr.) (mg/l): 18 Daphnia magna EC50 (48hr.) (mg/l): 44 log Kow (Prager 1995): 1.82 Fish LC50 (96hr.) (mg/l): 100- 185 Daphnia magna EC50 (48hr.) (mg/l): 44 Algae IC50 (72hr.) (mg/l): 280 log Kow (Sangster 1997): 1.78 COD: 78% For n-Butyl Acetate: Koc: ~200; log Kow: 1.78; Half-life (hr) air: 144; Half-life (hr) H2O surface water: 178 - 27156; Henry's atm: m3 /mol: 3.20E-04 BOD 5 if unstated: 0.15-1.02,7%; COD: 78%; ThOD: 2.207; BCF: 4-14.

Environmental Fate: Terrestrial Fate - Butyl acetate is expected to have moderate mobility in soil. Volatilization of n-butyl acetate is expected from moist and dry soil surfaces. n-Butyl acetate may be biodegrade in soil. Aquatic Fate: n-Butyl acetate is not expected to adsorb to suspended solids and sediment in water. Butyl acetate is expected to volatilize from water surfaces. Estimated half-lives for a model river and model lake are 7 and 127 hours respectively. Hydrolysis may be an important environmental fate for this compound. Atmospheric Fate: n-Butyl acetate is expected to exist solely as a vapour in the ambient atmosphere. Vapour-phase n-butyl acetate is degraded in the atmosphere by reaction with photochemically- produced hydroxyl radicals; the half-life for this reaction in air is estimated to be about 4 days.

Ecotoxicity: It is expected that bioconcentration in aquatic organisms is low. n-Butyl acetate is not acutely toxic to fish specifically, island silverside, bluegill sunfish, fathead minnow, and water fleas and has low toxicity to algae. **DIMETHYL ETHER** 

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Water solubility (g/l): 35300 log Kow (Sangster 1997): 0.1 Most ethers are very resistant to hydrolysis, and the rate of cleavage of the carbon-oxygen bond by abiotic processes is expected to be insignificant. Direct photolysis will not be an important removal process since aliphatic ethers do not absorb light at wavelengths >290 nm. DO NOT discharge into sewer or waterways. log Kow: 0.1-0.12 Koc: 14 Half-life (hr) air: 528 Half-life (hr) H2O surface water: 2.6-30 Henry's atm m<sup>3</sup> /mol: 9.78E-04 BCF: 1.7 processes Abiotic: RxnOH\* ETHYL ACETATE log Pow (Verschueren 1983): 0.66/0.73 ThOD: 50.4 log Pow (Verschueren 1983): 0.66/0.73 BOD5: 15% COD: 1.54 (83%) ThOD: 1.82 Half-life Soil - High (hours): 168 Half-life Soil - Low (hours): 24 Half-life Air - High (hours): 353 Half-life Air - Low (hours): 35.3 Half-life Surface water - High (hours): 168 Half-life Surface water - Low (hours): 24 Half-life Ground water - High (hours): 336 Half-life Ground water - Low (hours): 48 Aqueous biodegradation - Aerobic - High (hours): 168 Aqueous biodegradation - Aerobic - Low (hours): 24 Aqueous biodegradation - Anaerobic - High (hours): 672 Aqueous biodegradation - Anaerobic - Low (hours): 96 Aqueous biodegradation - Removal secondary treatment - High (hours): 96% Aqueous biodegradation - Removal secondary treatment - Low (hours): 99.90% Photooxidation half-life water - High (hours): 9.60E+05 Photooxidation half-life water - Low (hours): 24090 Photooxidation half-life air - High (hours): 353 Photooxidation half-life air - Low (hours): 35.3 First order hydrolysis half-life (hours): 1.77E+04 Acid rate constant [M(H+)- HR]- 1: 3.05E- 08 Base rate constant [MOH)- HR]- 1: 2.99E- 05 DO NOT discharge into sewer or waterways. log Kow: 0.66-0.73 Half-life (hr) air: 200 Half-life (hr) H2O surface water: 10 Henry's atm m<sup>3</sup> /mol: 1.20E-04 BOD 5 if unstated: 0.1-1.24,16-36% COD: 1.54,83% ThOD: 1.82 DIMETHOXYETHANE

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for 1,2-dimethoxyethane (monoglyme):

Monoglyme is a volatile liquid with high water solubility. Monoglyme is likely to partition into water but it has little potential for bioaccumulation.

Environmental Fate:

Distribution: Monoglyme is expected to distribute primarily to water after release to the environment.

Photodegradation: Environmental degradation to carbon dioxide will likely occur by a combination of slow biodegradation, and reaction with atmospheric hydroxyl radicals after volatilisation with an estimated photolytic half-life in air of approximately 8 hours.

Water Stability: Monoglyme is hydrolytically stable in water under normal environmental conditions at pH 4 to 9 with an estimated hydrolytic half-life at 25C greater than one year.

Biodegradation: Monoglyme is poorly biodegradable in a waste water treatment facility and not considered readily biodegradable.

Ecotoxicity:

Fish, daphnia and green algae are estimated to be acutely affected by monoglyme only at concentrations far in excess of 1000 mg/l. Monoglyme is of low concern to aquatic environmental species.

Fish LC50 (96 h): 8984 mg/l (estimated)

Daphnia EC50 (48 h): 7344 mg/l (estimated)

Alage EC50 (96 h): 4042 mg/l (estimated).

For Ethelene Glycol Monoalkyl Ethers and their Acetates:

log BCF: 0.463 to 0.732;

LC50: 94 to > 5000 mg/L. (aquatic species).

Members of this category include ethylene glycol propyl ether (EGPE), ethylene glycol butyl ether (EGBE) and ethylene glycol hexyl ether (EGHE).

Environmental Fate: Aquatic Fate - The ethers possess no functional groups that are readily subject to hydrolysis in the presence of waters. The acetates possess an ester group that hydrolyses in neutral ambient water under abiotic conditions. Will partition predominately to water and, to a lesser extent, to air and soil. Soil - Highly mobile in soil.

## • 12.3 Bioaccumulative potential

### DIMETHYL ETHER

Bioaccumulation: not significant

### DIMETHOXYETHANE

Ecotoxicity: Ethelene glycol monoalkyl ethers and their acetates are readily biodegradable. The physical chemistry and environmental fate properties indicate that category members will not persist or bioconcentrate in the environment. Glycol ether acetates do not hydrolyze rapidly into their corresponding glycol ethers in water under environmental conditions. Glycol ether acetates are not acutely toxic to fish, specifically, zebra fish, rainbow trout and water fleas. Population changes were noted in freshwater and green algae species. DO NOT discharge into sewer or waterways.

• 12.4 Mobility in soil Very slow

- · Additional ecological information:
- · General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### · 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

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#### · 13.1 Waste treatment methods

### $\cdot$ 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 dangerous substances		
15 01 04 metallic packaging		
15 01 11*	15 01 11* metallic packaging containing a dangerous solid porous matrix	
(for example asbestos), including empty pressure containers		

· Uncleaned packaging:

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

## **Section 14 - Transport information**

· 14.1 UN-Number		
· ADR, IMDG, IATA	UN1950	
• 14.2 UN proper shipping name		
• ADR	UN1950 AEROSOLS	
·IMDG	AEROSOLS	
·IATA	AEROSOLS, flammable	
• 14.3 Transport hazard class(es)		
· ADR		
· Class	2 5F Gases.	
·Lable	2.1	
· IMDG, IATA		
· Class	2.1	
·Lable	2.1	
• 14.4 Packing group		
· ADR, IMDG, IATA	Void	
• 14.5 Environmental hazards:		
Marine pollutant:	No	
<ul> <li>14.6 Special precautions for user</li> </ul>	Warning: Gases.	
· Danger code (Kemler): -	-	
· EMS Number:	F-D,S-U	
$\cdot$ 14.7 Transport in bulk according to Annex II of MARPOL73/78 and		
the IBC Code	Not applicable.	
Transport/Additional information:		
• ADR		
· Limited quantities (LQ)	1L	

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• Excepted quantities (EQ)	Co	ode: E0	
	No	ot permitted as Excepted Quantity	
<ul> <li>Transport category</li> </ul>	rt category 2		
Tunnel restriction code	D		
• IMDG			
· Limited quantities (LQ)	1L		
Excepted quantities (EQ) Code: EO		ode: E0	
	No	ot permitted as Excepted Quantity	
• UN "Model Regulation":	10	UN1950, AEROSOLS, 2.1	

## Section 15 - Regulatory information

 $\cdot$  15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture .

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

H222 Extremely flammable aerosol.

H229: Pressurised container: May burst if heated

H312 Harmful in contact with skin

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray..

P264 Wash ... thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

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

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

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

Contact: Dipl.-Chem. G. Heller oder Dipl.-Ing. U. Voetter

## 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 Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International

Carriage of Dangerous Goods by Road)

## According to NO. 487/2013/EC

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IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent Flam. Gas 1: Flammable gases, Hazard Category 1 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1 Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 STOT RE 3: Specific target organ toxicity - Repeated exposure, Hazard Category 3