Conforms to Regulation (EC) No	1907/2006 (REACH),	Annex II, as amended by	Commission Regulation (EU)
2015/830 - Europe			

Date of issue/ Date of revision

: 5/31/2018

Date of previous issue

: 6/9/2017



SAFETY DATA SHEET

LIITU

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

1.1 Product identifier

Product name Product description : LIITU

: A waterborne acrylate paint.

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

Recommended use: Painting work

1.3 Details of the supplier of the safety data sheet

Manufacturer or Distributor		
Tikkurila Oyj		
P.O. Box 53		
FI-01301 VANTAA		
FINLAND		
Telephone +358 20 191 2000		
e-mail address of person	:	Tikkurila Oyj,
responsible for this SDS		Product Safety,
•		e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number	: 112 (24h)
Supplier or Manufacturer	
Telephone number	: I kkurila Oyj +358 20 191 2000 (GMT +2) Mon-Fri 8-16

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Signal word	No signal word.	
Hazard statements	No hazard statements.	
Precautionary statements		
General	Not applicable.	
Prevention	Not applicable.	
Response	Not applicable.	
Storage	Not applicable.	
Disposal	Not applicable.	
Supplemental label elements	Contains 1,2-benzisothiazol-3(2H)-one (BIT) and 2,4,7,9-tetramethyldec-5-yne 7-diol. May produce an allergic reaction.	e-4,
	Near protective gloves.	

09.06.2017.

2.3 Other hazards

Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

			Classification	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
4,7,9-tetramethyldec-5-yne-4,7-dio	REACH #: 01-2119954390-39 EC: 204-809-1 CAS: 126-86-3	≤0.3	Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	-
1,2-benzisothiazol-3(2H)-one (BIT)	EC: 220-120-9 CAS: 2634-33-5	<0.05	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	-
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Notes, if applicable, refer to Notes given in Annex VI of 1272/2008/EC.

SECTION 4: First aid measures

4.1 Description of first aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Show this safety data sheet or label to the doctor if possible.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of lukewarm water, keeping eyelids open. Continue to rinse for at least 10 minutes.
Inhalation	: Remove to fresh air.
Skin contact	: Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious). If significant amounts have been swallowed or if symptoms persist, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

See Section 11 for more detailed information on health effects and symptoms. Contains: 1,2-benzisothiazol-3(2H)-one (BIT)

2,4,7,9-tetramethyldec-5-yne-4,7-diol

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None.

31.05.2018 Date of previous issue 09.06.2017.

LIITU

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.2 Special hazards arising from the substance or mixture		
Unsuitable extinguishing media	: Do not use a direct water jet that could spread the fire.	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO ₂ , powders or water spray/mist.	

Hazards from the substance or mixture	:	This product is not classified as flammable. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	:	\overline{W} hen exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

5.3 Advice for firefighters

Special protective actions for fire-fighters	:	Use water spray to keep fire-exposed containers cool. Do not release runoff from fire to drains or watercourses.
Special protective equipment for fire-fighters	:	Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	: Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	: Do not allow to enter drains, water courses or soil.
6.3 Methods and materials for containment and cleaning up	: Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Preferably clean with water or detergent. Avoid using solvents.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	:	Skin contact with the product and exposure to spray mist and vapor should be avoided. Avoid inhalation of dust from sanding. See Section 8 for information on appropriate personal protective equipment. Eating, drinking and smoking should be prohibited in areas where this material is handled and stored. Wash hands before breaks and immediately after handling the product.
7.2 Conditions for safe storage, including any incompatibilities	:	Store in original container protected from direct sunlight in a dry, cool and well- ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature is +5°C+25°C. Do not allow to freeze. Store in accordance with local regulations.
7.3 Specific end use(s)	:	None.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available.

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Comply with the health and safety at work laws.

Individual protection measures

Eye/face protection	: Safety eyewear should be used when there is a likelihood of exposure. Use safety eyewear (EN166), especially during spray-application.
Hand protection	 Wear protective gloves. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Recommended glove material (EN374): > 8 hours (breakthrough time): nitrile rubber Not recommended: PVA gloves
Skin protection	: Mear appropriate personal protective clothing to prevent skin contact.
Respiratory protection	: If ventilation during spray-application is inadequate, use respirators with combination filter AP, gas/dust filter (EN405:2001). Wear a respirator with type P2 filter during sanding (EN149:2001). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: Various
Odor	: Mild.
Odor threshold	: Not relevant for the hazard assessment of the product.
рН	: Not relevant for the hazard assessment of the product.
Melting point/freezing point	: 0°C (water)
Initial boiling point and	: 100°C (water)
boiling range	
Flash point	: > 100 °C
Evaporation rate	: Not relevant due to the nature of the product.
Flammability (solid, gas)	: Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits	: Not relevant due to the nature of the product.
Vapor pressure	: 3.2 kPa [room temperature] (water)
Vapor density	: Not relevant for the hazard assessment of the product.
Density	: 17 to 1.2 g/cm ³
Solubility(ies)	: Miscible in water.

Date of issue/Date of revision	31.05.2018	B Date of previous issue	09.06.2017.	LIITU	
Partition coefficient: n-octanol water	: Not a	vailable.			
Auto-ignition temperature	: Not re	elevant due to the natu	re of the product.		
Decomposition temperature	: Not re	elevant for the hazard a	assessment of the	product.	
Viscosity	: Not re	elevant for the hazard a	assessment of the	product.	
Explosive properties	: No ex	plosive ingredients pre	esent.		
Oxidizing properties	: No ox	kidizing ingredients pre-	sent.		

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity		
10.1 Reactivity	1	See Section 10.5.
10.2 Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid extreme heat and freezing.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents strong acids strong alkalis
10.6 Hazardous decomposition products	:	When exposed to high temperatures, hazardous decomposition products may be produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

There is no testdata available on the product itself.

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

Long term exposure to spray mist may produce respiratory tract irritation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
√2-benzisothiazol-3(2H)- one (BIT)	LD50 Oral	Rat	1020 mg/kg	-

Not classified.

Irritation/Corrosion

Not classified.

Sensitization

The product is not classified as sensitizing by skin contact, but it contains following preservatives or other biocides which may produce an allergic reaction:

1,2-benzisothiazol-3(2H)-one (BIT) 2-methyl-2H-isothiazol-3-one (MIT) 2,2'-dithiobis[N-methylbenzamide] (DTBMA) Contains small amounts of sensitizing substances: 2,4,7,9-tetramethyldec-5-yne-4,7-diol **Mutagenicity** Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

09.06.2017.

Not classified. **Teratogenicity** Not classified. **Specific target organ toxicity (single exposure)** Not classified. **Specific target organ toxicity (repeated exposure)** Not classified. **Aspiration bazard**

Aspiration hazard

Not classified.

SECTION 12: Ecological information

Ecological testing has not been conducted on this product. Do not allow to enter drains, water courses or soil.

The product is not classified as environmentally hazardous according to Regulation (EC) 1272/2008.

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,4,7,9-tetramethyldec- 5-yne-4,7-diol	EC50 82 mg/l	Algae - Selenastrum capricornutum	72 hours
	EC50 91 mg/l	Daphnia	48 hours
1,2-benzisothiazol-3(2H)- one (BIT)	Acute EC50 0.36 mg/l	Algae - Skeletonema costatum	72 hours
	Acute LC50 0.74 mg/l	Fish	96 hours

12.2 Persistence and degradability	: No specific data.
12.3 Bioaccumulative potential	: No specific data.
12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment				
PBT	: Not applicable.			
vPvB	: Not applicable.			

vPvB	:	Not applicable

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

: Remove as much product as possible from the tools before cleaning. Liquid residue must not be emptied into drains or sewage system, but handled in accordance with national regulations. Product residues should be left at special companies which have permission for gathering this kind of wastes.

European waste catalogue (EWC)

31.05.2018 Date of previous issue 09.06.2017. LIITU

Waste code	Waste designation
08 01 12	waste paint and varnish other than those mentioned in 08 01 11

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

Packaging	
Methods of disposal	 Empty packaging should be recycled or disposed of in accordance with national regulations.
Special precautions	: No additional information.

SECTION 14: Transport information

This product is not regulated for carriage according to ADR/RID, IMDG, IATA.

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

14.6 Special precautions for user: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	1	Not available.
according to Annex II of		
MARPOL and the IBC Code		

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations Europe inventory

: Not determined.

15.2 Chemical Safety: This product contains substances for which Chemical Safety Assessments are still
required.

SECTION 16: Other information

Indicates information th	at has changed from previously issued version.
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Date of issue/Date of revision	31.05.2018 Date of previous issue 09.06.2017. LIITU	
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]		
Classifi	cation Justification	
Not classified.		
Full text of abbreviated H statements	 H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. 	
Full text of classifications [CLP/GHS]	 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 AQUATIC HAZARD (ACUTE) - Category 1 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 2 Aquatic Chronic 3, H412 AQUATIC HAZARD (LONG-TERM) - Category 3 Eye Dam. 1, H318 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 Skin Irrit. 2, H315 SKIN CORROSION/IRRITATION - Category 2 Skin Sens. 1, H317 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 	
Date of issue/ Date of revision	: 5/31/2018	
Date of previous issue	: 6/9/2017	
Version	: 2.04	

Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II (EU) No 830/2015 to Regulation (EC) No 1907/2006 (REACH). The information contained in this Safety Data Sheet is based on the present state of knowledge and current EU and national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.