

SAFETY DATA SHEET

BIORID SPRAY

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

1.1 Product identifier	
Product name	: BIORID SPRAY
Product code	: 0065121
Product description	: A waterborne functional 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 responsible for this SDS	:	Tikkurila Oyj, Product Safety, e-mail: productsafety@tikkurila.com

1.4 Emergency telephone number

Telephone number	:	112 (24h)
Supplier or Manufacturer		
Telephone number	:	✔ kkurila Oyj +358 20 191 2000 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]

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

2.2 Label elements

Signal word	No signal word.	
Hazard statements	₩412 - Harmful to aquatic life with long lasting effects.	
Precautionary statements		
General	Not applicable.	
Prevention	273 - Avoid release to the environment.	
Response	Not applicable.	
Storage	Not applicable.	
Disposal	Not applicable.	
Supplemental label elements	Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) and 2 2H-isothiazol-3-one. May produce an allergic reaction.	2-octyl-

Wear protective gloves.

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Treated articles

This paint contains a biocidal product for the preservation of the dry film. Contains 2-octyl-2H-isothiazol-3-one, zinc pyrithione.

This product contains a biocidal product for the preservation of the product during storage. Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1).

2.3 Other hazards

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
			<u>Classification</u>	
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Notes
zińc pyrithione	REACH #: 01-2119511196-46 EC: 236-671-3 CAS: 13463-41-7	≤0,2	Acute Tox. 3, H301 Acute Tox. 3, H331 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10)	-
2-octyl-2H-isothiazol-3-one	EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5	≤0,049	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	-
bronopol	EC: 200-143-0 CAS: 52-51-7 Index: 603-085-00-8	≤0,037	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10)	-
reaction mass of: 5-chloro-2-methyl- 4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H- isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS: 55965-84-9	<0,0015	Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) 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.

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Skin contact	: Wash skin thoroughly with soap a NOT use solvents or thinners.	and water or use	recognized skin cleanser. Do
Ingestion	: If accidentally swallowed rinse the conscious). If significant amount 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: mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) 2-octyl-2H-isothiazol-3-one May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	 Use an extinguishing agent suitable for the surrounding fire. Recommended: Alcohol resistant foam, CO₂, powders or water spray/mist. 		
Unsuitable extinguishing media	: Do not use a direct water jet that could spread the fire.		
5.2 Special because an interval the substance or minimum			

5.2 Special hazards arising from the substance or mixture

Hazards from the	: This product is not classified as flammable. Fire will produce dense black smoke.
substance or mixture	Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	: Mhen 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. This material is hazardous to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
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	:	Azardous to aquatic environment. 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 a 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.

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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. Avoid release to the environment.
7.2 Conditions for safe storage, including any incompatibilities	:	Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Recommended storage temperature is +5°C+25°C. 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.

procedures

Recommended monitoring : 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.

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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.
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	:	Wear appropriate personal protective clothing to prevent skin contact.
Respiratory protection	:	During spray-application use respirators with combination filter A/P3 (EN405:2001). Be sure to use an approved/certified respirator or equivalent. Check that mask fits tightly and change filter regularly.
Environmental exposure controls	:	For information regarding environmental protection measures, please refer to section 13 for waste handling, section 7 for handling and storage and section 1.2 for relevant identified uses of the substance or mixture and uses advised against.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties	

Appearance		• • • • • • • •
Physical state	:	Liquid.
Color	:	White.
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	:	Not available.
Initial boiling point and	:	Not available.
boiling range		
Flash point	-	> 100 °C
Evaporation rate	-	Not available.
Flammability (solid, gas)		Not applicable. Product is a liquid.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Density	:	1,2 g/cm³
Solubility(ies)	:	Soluble in water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not relevant for the hazard assessment of the product.
Viscosity	:	Not relevant for the hazard assessment of the product.
Explosive properties	:	No explosive ingredients present.
Oxidizing properties	:	No oxidizing ingredients present.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

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10.1 Reactivity	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 b produced, such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc.	

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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
zínc pyrithione	LD50 Oral	Rat	269 mg/kg	-
2-octyl-2H-isothiazol-3-one	LD50 Dermal	Rabbit	690 mg/kg	-
	LD50 Oral	Rat	550 mg/kg	-
bronopol	LD50 Oral	Rat	342 mg/kg	-
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	LD50 Oral	Rat	53 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

mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1)

2-octyl-2H-isothiazol-3-one 2-methyl-2H-isothiazol-3-one

Mutagenicity

Not classified.

Carcinogenicity

Not classified.

Reproductive toxicity

Not classified.

Teratogenicity

Not classified.

Specific target organ toxicity (single exposure)

Not classified.

Specific target organ toxicity (repeated exposure)

Not classified.

Aspiration hazard

Not classified.

SECTION 12: Ecological information

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

The product is classified as environmetally hazardous according to Regulation (EC) 1272/2008. Harmful to aquatic life with long lasting effects.

12.1 Toxicity

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Product/ingredient name	Result	Species	Exposure
zínc pyrithione	EC50 0,0082 mg/l	Daphnia	48 hours
	LC50 0,0026 mg/l	Fish - Pimephales promelas	96 hours
	Acute LC50 197 µg/l Fresh water	Crustaceans - Chydorus sphaericus	48 hours
2-octyl-2H-isothiazol-3-one	EC50 0,32 mg/l	Daphnia - Daphnia magna	48 hours
	LC50 0,047 mg/l	Fish - Oncorhynchus mykiss	96 hours
bronopol	Acute EC50 0,068 mg/l	Algae - Anabaena flos aqua	72 hours
reaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	Acute EC50 0,379 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 0,16 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 0,19 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0,0012 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0,004 mg/l	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Peaction mass of: 5-chloro- 2-methyl-4-isothiazolin- 3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- 3-one [EC no. 220-239-6] (3: 1)	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	Bioconcentration factor [BCF]	Potential
pronopol	0,18	-	low
2-octyl-2H-isothiazol-3-one	2,45	-	low
zinc pyrithione	0,9	11	low

12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

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

12.6 Other adverse effects : Not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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Methods of disposal
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: Zather residues into waste containers. Liquid residue and cleaning liquids are hazardous waste and 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.

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European waste catalogue (EWC)

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 : None.

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.
Additional information	-	-	-

user

14.6 Special precautions for : 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 re	egulations/legislation specific for the substance or mixture
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EU Regulation (EC) No. 1907/2006 (REACH)

Other EU regulations

Europe inventory

15.2 Chemical Safety

: Not determined.

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

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SECTION 16: Other information

SECTION 18. Other	
Indicates information that	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
Procedure used to derive the	e classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
Classi	fication Justification
Aquatic Chronic 3, H412	Calculation method
Full text of abbreviated H statements	 1 Toxic if swallowed. H302 Harmful if swallowed. H311 Toxic in contact with skin. 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. H318 Causes serious eye damage. H331 Toxic if inhaled. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very 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. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H314 Skin Corr. 1B, H314 Skin Sens. 1, H317 Stor Se 3, H335 SERIOUS EYE DAMAGE ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
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Version	: 2
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Notice to reader

This Safety Data Sheet is prepared in accordance with Annex II 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.