SAFETY DATA SHEET

Envirograf®
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PRODUCT NUMBER: 158
MOULDBLOK EX - WHITE GLOSS TOP COAT WATER-BASED

UFI: A4P6-T1VS-700D-8C28

Description:

A water-based product to apply over MOULDBLOK FR

This product comprises of the following materials and therefore is supported by Health & Safety Data Sheets:

- (Appendix 20C) MOULDBLOK EX - WHITE GLOSS

*The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.

SAFETY DATA SHEET

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HS158 - MOULDBLOK EX - WHITE GLOSS - 02-2026

01 - IDENTIFICATION OF THE PREPARATION AND COMPANY

1.1 PRODUCT NAME	MOULDBLOK EX - GLOSS TOP COAT WATER-BASED
TRADE NAME	MOULDBLOK EX - GLOSS
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE	A water-based product to apply over MOULDBLOK FR
1.3 MANUFACTURER / SUPPLIER	INTUMESCENT SYSTEMS LTD - ENVIROGRAF
ADDRESS	Envirograf House, Barfrestone, Dover, Kent CT15 7JG, UK
TELEPHONE/FAX/EMAIL	01304 842555 01304 842666 sales@envirograf.com
EMERGENCY PHONE NUMBER	01304 842555 (Monday to Friday 08:30 - 17:30)

02 - HAZARDS IDENTIFICATIONS

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Cat. 4	H302: Harmful if swallowed
Skin sens. Cat. 1A	H317: May cause an allergic reaction

2.2 LABEL ELEMENTS

Hazard pictogram:

EUH 208: Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2h)-one and Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazole-3(2h)-one (3:1).. May produce an allergic reaction.

Signal Word:

VOC Content: : This product contains 22g/l VOC.

Hazard statements:

H301 + H311: Toxic if swallowed or in contact with skin.
H302: Harmful if swallowed.
H310: Fatal 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.
H319: Causes serious eye irritation.
H330: Fatal if inhaled.
H332: Harmful if inhaled.
H341: Suspected of causing genetic defects.
H351: Suspected of causing cancer
H373: Causes damage to organs through prolonged or repeated exposure.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

Response:

P301+ P312: IF SWALLOWED: call a POISON CENTRE/ doctor/... if you feel unwell.
P302+P352: IF ON SKIN: wash with plenty of water/...
P333+P313: IF SKIN irritation or rash occurs: get medical advice/attention.

Disposal:

P501: Dispose of contents/container to an approved waste disposal plant.

2.3 Other hazards

No other information.

This product contains Titanium Dioxide in a liquid mixture, it is not classified as hazardous pursuant to Regulation 2020/217 (14th ATP to regulation (EU) 1272/2008, Annex VI) due to it containing less than 1% of particles with an aerodynamic diameter of 10µm.

03 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Aqueous dispersion of a polymer with non-hazardous fire retardant and intumescent additives.

Chemical name	CAS no. / EINECS no. / REACH ID:	%	Classification	Specific concentration range, M-factor, estimated acute toxicity
Glyoxal	CAS 107-22-2 EC 203-474-9 01-2119461733-37	< 0.000040	**H315** (Skin irrit. 2), **H317** (Skin Sens. 1), **H319** (Eye irrit. 2), **H332** (Acute inhal. 4), **H341** (Cat. 2)	
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9 01-2120761540-60	< 0.0292	**H302** (Cat. 4), **H315** (Cat. 2), **H317** (Skin Sens. 1), **H318** (Cat. 1), **H330** (Cat. 2), **H400** (Cat. 1) and **H410** (Cat. 1)	Skin Sens. 1; H317: C ≥ 0.05 %
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6 01-2120764690-50	< 0.0006	**H301** (Cat. 3), **H311** (Cat. 3), **H314** (Cat. 1B), **H317** (Skin Sens. 1A), **H318** (Cat. 1), **H330** (Cat. 2), **H400** (Cat. 1), **H410** (Cat. 1)	Skin Sens. 1A; H317: C ≥ 0.0015 % M=10 M(Chronic)=1
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6 01-2120764690-48	< 0.0014	**H300** (Cat. 3), **H310** (Cat. 2), **H314** (Cat. 1C), **H317** (Skin Sens. 1A), **H318** (Cat. 1), **H330** (Cat. 2), **H400** (Cat. 1) and **H410** (Cat. 1)	Skin Irrit. 2; : 0.06 % ≤ C < 0.6 % Eye Irrit. 2; : 0.06 % ≤ C < 0.6 % Eye Dam. 1; : C ≥ 0.6 % Skin Sens. 1A; : C ≥ .0015 % Skin Corr. 1C; : C ≥ 0.6 % M=100, M(Chronic) = 100
(2-methoxymethethoxy)propanol	CAS 34590-94-8 EC 252-104-2 01-2119450011-60	< 0.30	Not Classified (Reg, (EC) No. 1272/2008)	N/A
Diuron (ISO) (From Acticide MKS2)	CAS 330-54-1 EC 206-354-4 INDEX: 006-015-00-9	< 0.009%*	H351 (Carc. 2), H373 (STOT RE. 2), H400 (Aquatic Acute 1), H410 (Aquatic chronic 3)	M=10
2-Octyl-2H-isothiazol-3-one (OIT) (from Acticide MKS2)	CAS 26530-20-1 EC 247-761-7 INDEX: 613-112-00-5	<0.005%**	**H301** (Cat. 3), **H311** (Cat. 3), **H314** (Cat. 1), **H317** (Skin Sens. 1A), **H318** (Cat. 1), **H330** (Cat. 2), **H400** (Cat. 1), **H410** (Cat. 1)	Skin Sens. 1A; H317: C ≥ 0.0015 % M=100,

*/** The percentages shown are "total (free)% of Diuron " and total (free)% of 2-Octyl-2H-isothiazol-3-0ne" . Total free portion is subject to classification of the mixture with regard to environmentally hazardous properties.

04 - FIRST-AID MEASURES

4.1 Description of first-aid measures

General advice : Get general attention if symptoms occur.
: Show this safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.

In case of skin contact : Wash off immediately with soap and plenty of water.
: Remove contaminated clothing. If irritation develops, get medical attention.
: Wash contaminated clothing before reuse.

In case of eye contact	: Rinse with plenty of water.
If swallowed	: If accidentally swallowed obtain immediate medical attention.

4.2 Most important symptoms and effect, both acute and delayed

Symptoms	: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. : Repeated or prolonged exposure may cause irritation of eyes and skin.

4.3 Indication of immediate medical attention and special treatment, if needed

No data available.

05 - FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: Not combustible. : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: No information available.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	: The pressure in sealed containers can increase under the influence of heat.

5.3 Advice for firefighters

Special protective equipment for firefighters	: Use personal protective equipment.
Further information	: The product itself does not burn. : Prevent fire extinguishing water from contaminating surface water or the ground water system. : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

06 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions	: The product should not be allowed to enter drains, water courses or the soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Prevent further leakage or spillage if safe to do so. : Large spills should be collected mechanically (by pumping) for disposal. : Soak up with inert absorbent material (e.g., sand, silica gel, acid binder, universal binder, sawdust). : Pick up and transfer to properly labelled containers. : Clean contaminated floors and objects thoroughly while observing environmental regulations. : Dispose of in accordance with local regulations.

6.4 Reference to other sections

For personal protection see sections 8 and 11.

07 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling	: Wear personal protection equipment. : For personal protection see section 8. : Avoid inhalation, ingestion and contact with skin and eyes. : Do not use in areas without adequate ventilation. : Smoking, eating and drinking should be prohibited in the application area.
Hygiene measures	: Wash hands before breaks and immediately after handling the product. : When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	: Store in original container. : Keep in properly labelled containers. : Store in closed containers between + 5°C and + 30°C in dry conditions. : Avoid extremes of temperature. : Protect from freezing.

08 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters, below limit for consideration.

8.2 Exposure controls

Engineering measures	: Use adequate ventilation and/or engineering controls in high temperature processing to prevent exposure to vapours. : Ensure adequate ventilation, especially in confined areas.

Personal protection equipment:

Eyes protection	: Safety glasses with side-shields conforming to EN166
Hand protection	: Material – nitrile rubber. : Break through time – 480min. : Glove thickness – 0.1 – 0.4mm
Remarks	: Protective gloves complying with EN374. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
Skin and body protection	: Not required under normal use. : Skin should be washed after contact. : Remove and wash contaminated clothing before re-use.
Respiratory protection	: Not required under normal use.
Protective measures	: Ensure the eye flushing systems and safety showers are located close to the working place.

Environmental exposure controls : General advice: This product should not be allowed to enter drains, water courses or the drains.

09 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Colour	White	**Explosive properties**	Not applicable
Form	Liquid	**Vapour pressure**	Not applicable
Odour	Ester-like	**Bulk density**	1.17 - 1.27 g/cm³
pH as supplied	8.0 - 9.0	**Viscosity range**	10 - 18 pS
Boiling point/range	~ 100°C	**Kinematic viscosity**	Not established
Freezing point/range	~ 0°C	**Solubility**	-
Flash point	Not applicable	**Water solubility**	Insoluble, completely miscible, in all proportions.
Flammability (solid, gas)	Not applicable	**Partition coefficient (n-octanol/water)**	Not determined
Autoignition temperature	Not applicable		

9.2 Other information : -

10 - STABILITY AND REACTIVITY

10.1 Stability : Stable under normal conditions.

10.2 Materials and Conditions to avoid : No hazardous reactions when stored and handled to prescribed instructions.

10.3 Hazardous decomposition products : No decomposition if stored and applied as directed. Thermal decomposition may generate oxides of carbon and phosphorus.

11 - TOXICOLOGICAL INFORMATION

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

Acute toxicity

Component		Acute oral toxicity	Acute inhalation toxicity	Acute dermal toxicity
Glyoxal	CAS 107-22-2 EC 203-474-9	LD50 Oral (Rat): 200 mg/kg Method: No information available.	LC50 (Rat): 2.44 mg/l Exposure time: 4 h Method: OECD 403	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.	No data available.	No data available.
2-methylisothiazol-3(2H)-one MIT)	CAS 2682-20-4 EC 220-239-6	No data available.	No data available.	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	LD50 Oral (Rat): 64 mg/kg Method: No information available.	LC50 (Rat): 0.33 mg/l Exposure time: 4 h Method: OECD 403	LD50 (Rabbit): 87.12 mg/Kg Method: No Information available
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	LD50 Oral(Rat): >4000 mg/kg	No data available.	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	LD50(Rat): <2000mg/Kg OECD method 423 - S1839	LD50(Rat): <2000mg/Kg OECD method 402 - S1834	ATE mist/Dust:5mg/L, 4hrs (calculated)

Skin corrosion/irritation

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	Species: Rabbit OECD Test Guideline 404 Corrosive to skin
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	Species:Rabbit - OECD Test Guideline 404 - No Skin irritation
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data..

Serious eye damage/eye irritation

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	Species: Rabbit Method: No information available. Remarks: Corrosive to eyes.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No eye irritation
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data..

Respiratory or skin sensitisation

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 26172-55-4 EC 247-500-7	Species: Mouse Exposure time: no data available. Remarks: Causes sensitisation.

(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	Does not cause skin sensitisation
2-Octyl-2H-isothiazol-3-one (OIT) (from Acticide MKS2)	CAS 26530-20-1 EC 247-761-7	OECD Method 429 (Mouse) - Sensitising - S 526

Germ cell mutagenicity

Glyoxal	CAS 107-22-2 EC 203-474-9	Genotoxicity in vitro: No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	Genotoxicity in vitro: No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	Genotoxicity in vitro: No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	Remarks: In vitro tests did not show mutagenic effects.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data..

Carcinogenicity

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Suspected to cause cancer.

Reproductive toxicity

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.

2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data.

STOT - single exposure

Glyoxal	CAS 107-22-2 EC 203-474-9	May cause respiratory irritation.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data.

STOT – repeated exposure

Glyoxal	CAS 107-22-2 EC 203-474-9	May cause respiratory irritation.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data.

Aspiration hazards

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Not classified based on available data.

11.2 Information on other hazards

No data is available on the product itself.

Information given is based on data on the components and the toxicology of similar products.

Endocrine disrupting properties

Glyoxal	CAS 107-22-2 EC 203-474-9	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-418-6	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	No available data.

12 - ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity	Glyoxal (CAS 107-22-2, EC 203-474-9)
Toxicity to fish	LC50 (Pimephales Promelas): 86mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae/aquatic plants	No data available.
M-Factor (Acute aquatic toxicity)	1
Toxicity to fish (Chronic toxicity)	No data available.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available.
M-Factor (Chronic aquatic toxicity)	1

Toxicity	**1,2-benzisothiazol-3(2H)-one (CAS 2634-33-5, EC 220-120-9)**
Toxicity to fish	No data available.
Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae/aquatic plants	No data available.
M-Factor (Acute aquatic toxicity)	1
Toxicity to fish (Chronic toxicity)	No data available.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available.
M-Factor (Chronic aquatic toxicity)	1

Toxicity	**2-methylisothiazol-3(2H)-one (CAS 2682-20-4, EC 220-239-6)**
Toxicity to fish	No data available.
Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae/aquatic plants	No data available.
M-Factor (Acute aquatic toxicity)	10
Toxicity to fish (Chronic toxicity)	No data available.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available.
M-Factor (Chronic aquatic toxicity)	1

Toxicity	**Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1).(CAS 55965-84-9, EC 911-418-6)**
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	ErC50 (Selenastrum capricornutum): 0.037 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	100
Toxicity to fish (Chronic toxicity)	NOEC: 0.046 mg/l Exposure time: 35 d - Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.1 mg/l Exposure time: 21 d Species: Daphnia Magna (Water flea)
M-Factor (Chronic aquatic toxicity)	100

Toxicity	**(2-methoxymethylethoxy)propanol(CAS 34590-94-8, EC 252-104-2)**
Toxicity to fish	No data available.
Toxicity to daphnia and other aquatic invertebrates	No data available.
Toxicity to algae/aquatic plants	No data available.
M-Factor (Acute aquatic toxicity)	1
Toxicity to fish (Chronic toxicity)	No data available.
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	No data available.
M-Factor (Chronic aquatic toxicity)	1

Toxicity	**Diuron (ISO)**
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 14.7mg/L Exposure time: 96 h, OECD 203 (REACH DOSSIER)
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (water flea)): 1.4 mg/L Exposure time: 48 h, OECD 202, (REACH DOSSIER)
Toxicity to algae/aquatic plants	EC10 (Desmodesmus subspicatus): 0.088 mg/L EC50 (Desmodesmus subspicatus): 0.03 mg/L Exposure time: 72 h, OECD 201 (S800)

M-Factor (Acute aquatic toxicity)	Not available
Toxicity to fish (Chronic toxicity)	NOEC: 0.41 mg/L (Rainbow Trout) Exposure time: 28 d, OECD 204, (REACH DOSSIER)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.56 mg/L (Daphnia) Exposure time: 21 d, OECD 211 (REACH DOSSIER)
M-Factor (Chronic aquatic toxicity)	Not available

Toxicity	**2-Octyl-2H-isothiazol-3-one**
Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.036 mg/L Exposure time: 96 h, OECD 203 (S93)
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (water flea)): 0.42 mg/L , OECD 202 (S95) EC10 (Navicula peliculosa): 0.000224 mg/L , OECD 201 (RAC-opinion) EC50 (Navicula peliculosa): 0.00129 mg/L , OECD 201 (RAC-opinion) Exposure time: 48 h
Toxicity to algae/aquatic plants	EC50 (Desmodesmus subspicatus): 0.084 mg/L , OECD 201 , (S63) Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	Not available
Toxicity to fish (Chronic toxicity)	NOEC: 0.022 mg/L (Rainbow Trout) Exposure time: 28 d, OECD 210, (S159)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	NOEC: 0.002 mg/L (Daphnia) Exposure time: 21 d, OECD 211 (S96)
Toxicity to algae/aquatic plants (Chronic toxicity)	NOEC: 0.004 mg/L (Algae) Exposure time: 72 d, OECD 201
M-Factor (Chronic aquatic toxicity)	Not available

Effect on Activated Sludge organisms		
Diuron (ISO) (From Acticide MKS2)	CAS 330-54-1 EC 206-354-4	EC50: 3080 mg/L (OECD 209) (REACH DOSSIER)
2-Octyl-2H-isothiazol-3-one (OIT) (from Acticide MKS2)	CAS 26530-20-1 EC 247-761-7	EC20 (0.5 h): 10.4 mg/L (TTC- Test (8901 Macherey-Nagel))(Literature). EC20 (3 h): 7.3 mg/L (OECD 209) (Literature)
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	Depending on concentration, toxic effects on aquatic life(+ long lasting) and activated sludge organisms are possible.

12.2 Persistence and degradability

Biodegradability	Remarks: Taking into consideration the properties of several components, the product is estimated not to be readily biodegradable according to OECD classification.

Physico-chemical removability	: 98% : Method: OECD Test Guideline 302 : Remarks: This product can be eliminated from water by abiotic processes, e.g., adsorption on activated sludge.

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.

1,2-benzisothiazol-3(2H)-one	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one	CAS 2682-20-4 EC 220-239-6	Method: OECD Test Guideline 308 Remarks: 1.28 - 2.1 d (half-life)
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-48-6	Method: OECD Test Guideline 301 Remarks: Inherently biodegradable.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	Method: OECD Test Guideline 301F Remarks: Readily biodegradable. - GLP: Yes
2-Octyl-2H-isothiazol-3-one (OIT) (from Acticide MKS2)	CAS 26530-20-1 EC 247-761-7	=0.6, Duration 1.4 days Method: OECD 309 Simulation Biodegradation - Surface Water (S635)
		=1.6, Duration 2.1 days Method: OECD 309 Simulation Biodegradation - Sea Water (S636)
		> 83% (Behaviour in sewage treatment plants) Method: OECD 303A Activated Sludge Units (S313)
Diuron (ISO) (From Acticide MKS2)	CAS 330-54-1 EC 206-354-4	0% Method: OECD 301 F (REACH DOSSIER)

12.3 Bioaccumulative potential

Product — Bioaccumulation is unlikely.

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.
1,2-benzisothiazol-3(2H)-one	CAS 2634-33-5 EC 220-120-9	No data available.
2-methylisothiazol-3(2H)-one	CAS 2682-20-4 EC 220-239-6	Method: OECD Test Guideline 117 Remarks: < 0.32 (n-octanol/water)
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-48-6	Method: OECD Test Guideline 305 Remarks: Does not bioaccumulate.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	Method: OECD Test Guideline 117 log Pow: 0.004 - GLP: Yes
2-Octyl-2H-isothiazol-3-one (OIT) (from Acticide MKS2)	CAS 26530-20-1 EC 247-761-7	EC50 : 3080mg/L Method: OECD Test Guideline 209 (REACH DOSSIER)
Diuron (ISO) (From Acticide MKS2)	CAS 330-54-1 EC 206-354-4	Bioaccumulation factor= 5.2 (Mytillus edulis) Method: OECD 305 (REACH Dossier) Low Kow Partition Coefficient - 2.92 (n-Octanol/water) Method: OECD 117 (REACH dossier)

12.4 Mobility in soil

Glyoxal	CAS 107-22-2 EC 203-474-9	No data available.

1,2-benzisothiazol-3(2H)-one	CAS 2634-33-5 EC 220-120-9	Medium: Soil No data available.
2-methylisothiazol-3(2H)-one	CAS 2682-20-4 EC 220-239-6	No data available.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-48-6	No data available.
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	No data available.
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	No Information available

12.5 Results of PBT and vPvB assessment

Product - Assessment	: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). : This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Glyoxal	CAS 107-22-2 EC 203-474-9	This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
1,2-benzisothiazol-3(2H)-one (BIT)	CAS 2634-33-5 EC 220-120-9	
2-methylisothiazol-3(2H)-one (MIT)	CAS 2682-20-4 EC 220-239-6	
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-48-6	This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	

12.6 Endocrine disrupting properties

Product - Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Glyoxal	CAS 107-22-2 EC 203-474-9	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
1,2-benzisothiazol-3(2H)-one	CAS 2634-33-5 EC 220-120-9	

2-methylisothiazol-3(2H)-one	CAS 2682-20-4 EC 220-239-6	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methylisothiazol-3(2H)-one (3:1)	CAS 55965-84-9 EC 911-48-6	
(2-methoxy methethoxy) propanol	CAS 34590-94-8 EC 252-104-2	
Acticide MKS2 (for ISO, OIT, BIT & MIT)	UFI: MTE0-U1KD-1009-C967	

12.7 Other adverse effects

Additional ecological information

European Water Framework Directive: This product contains the following priority substances according to Annex X : Diuron**.**

Absorbable organic halogen compounds (AOX - DIN EN ISO 9562 H 14): Can affect the AOX-value of the effluent water**.**

13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Hazardous Waste - Separate waste disposal to be applied according to Directive 2008/98/EC on waste: D 10 Incineration on Land	: In accordance with local and national regulations. : The product should not be allowed to enter drains, watercourses or the soil. : Waste water from subsequent processing should be given appropriate treatment in line with local regulations.
Contaminated packaging	: In accordance with local and national regulations.

14 - TRANSPORT INFORMATION

14.1 UN number or ID number **:** Not dangerous goods

14.2 UN proper shipping name **:** Not dangerous goods

14.3 Transport hazard class(es) **:** Not dangerous goods

14.4 Packing group **:** Not dangerous goods

14.5 Environmental hazards : Product contains environmentally hazardous materials at levels below concern.

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of ADR/RID, AND, IMDG-Code, ICAO/IATA-DGR.

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable.

15 - REGULATORY INFORMATION

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

REACH – Candidate List of substances of Very High Concern (Article 59) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH – List of substances subject to authorisation (Annex XIV) : Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances : Not applicable.

15.2 Chemical safety assessment : Not applicable.

16 - OTHER INFORMATION

Indication of changes : The document has been adapted to the regulatory system, see ECHA: Guidelines on the compilation of safety data sheet.

Abbreviations and acronyms

CAS	Unique identification number for chemicals issued by the Chemical Abstract Services, US
EC number	Unique reference number to chemical names within the EU
EC	European Commission
GLP	Good Laboratory Practice
LC50	The amount of a substance suspended in the air required to kills 50% of a test animal during a predetermined observation period
LLNA	Local lymph node assay
NOEC	No observed effect concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative and. Toxic chemicals
vPvB	very Persistent and very Bio-accumulative
WELs	Workplace exposure limits
SDS	Safety Data Sheet
STOT	Specific target organ toxicity

Key literature references and sources for data	Regulation (EC) No. 1272/2008.
	Regulation (EC) No. 1907/2006
	Regulation (EC) No 1005/2009
	Regulation (EC) No 850/2004
	Workplace exposure limit EH40/2005
	Regulation (EU) 2016/425
	REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).

Test Referenced	OECD 117 - Partition Coefficient (n-octanol/water), HPLC Method
	OECD 201 - Freshwater Alga and Cyanobacteria, Growth Inhibition Test
	OECD 202 - Daphnia sp. Acute Immobilisation Test
	OECD 203 - Fish, Acute Toxicity Test
	OECD 204 - Fish, Prolonged Toxicity Test: 14-Day Study
	OECD 209 - Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)
	OECD 210 - Fish, Early-life Stage Toxicity Test

Tests Referenced	OECD 211 - Daphnia magna Reproduction Test
	OECD 301 - Ready Biodegradability
	OECD 301F- Ready Biodegradability
	OECD 302 - Inherent Biodegradability
	OECD 303A - Simulation Test – Aerobic Sewage Treatment – A: Activated Sludge Units; B: Biofilms
	OECD 305 - Bioconcentration: Flow-through Fish Test
	OECD 308- Aerobic and Anaerobic Transformation in Aquatic Sediment Systems
	OECD 309 - Aerobic Mineralisation in Surface Water – Simulation Biodegradation.
	OECD 402 - Acute Dermal Toxicity
	OECD 403 - Acute Inhalation Toxicity
	OECD 404 - Acute Dermal Irritation/Corrosion
	OECD 406 - Skin Sensitisation
	OECD 423 - Acute Oral toxicity – Acute Toxic Class Method
	OECD 443 - Extended One-Generation Reproductive Toxicity Study

Relevant H-Statements (number and full text)	H301 + H311: Toxic if swallowed or in contact with skin.
	H302: Harmful if swallowed.
	H310: Fatal in contact with skin.
	H311: Toxic 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.
	H319: Causes serious eye irritation.
	H330: Fatal if inhaled.
	H332: Harmful if inhaled.
	H341: Suspected of causing genetic defects.
	H351: Suspected of causing cancer.
	H373 : Causes damage to organs through prolonged or repeated exposure.
	H400: Very toxic to aquatic life.
	H410: Very toxic to aquatic life with long lasting effects.

RECOMMENDED USE : Mould resistant White top coat.

FURTHER INFORMATION : Consult technical data sheet.

The information contained in the Health and Safety Data Sheet is provided in accordance with the requirements of the most recent UK REACH Regulations. The product should not be used for purposes other than those shown without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. This information contained in the safety data sheet is based on present knowledge and current EU and UK 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.