

# SAFETY DATA SHEET



Version 16.1 replaces Version 15.3  
Revision date: 01/04/2016  
According to (EU) No. 2015/830

## SECTION 1

### IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

- 1.1 Product identifier:** **MAGNAVIS® WB-27**
- 1.2 Relevant identified uses of the mixture and uses advised against:**  
**Relevant identified uses:** Water based black Magnetic Particle Inspection (MPI) concentrate.  
**Uses advised against:** This product is not recommended for any use other than the identified uses above.
- 1.3 Details of the supplier of the safety data sheet**  
**Manufacturer:** Magnaflux® (A division of ITW Ltd)  
**Address:** Faraday Road, South Dorcan Industrial Estate, Swindon, UK  
**Postcode:** SN3 5HE  
**Telephone/fax number:** Telephone: +44 (0)1793 524566  
Fax: +44 (0)1793 490459  
Web: [www.eu.magnaflux.com](http://www.eu.magnaflux.com)  
**Email address of competent person responsible for SDS:** datasheets@magnaflux.co.uk  
**National contact:** None appointed
- 1.4 Emergency telephone number:** T: +44 (0)1793 524566 (office hours)  
**Opening hours:** Office hours (GMT) Monday - Thursday 8am - 5pm, Friday 8am - 4pm  
**Other comments:** Emergency telephone service is provided in English only.

## SECTION 2

### HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture:**  
**Classification according to Regulation (EC) No 1272/2008 (CLP):** **Physical and Chemical Hazard:** None  
**Health Hazard:** Eye Dam. 1 H318  
Skin Irrit. 2 H315  
**Environmental Hazard:** Aquatic Chronic 3 H412  
EUH208
- Additional information**  
For full text of hazard statements and EU hazard statements see SECTION 16.

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2.2

**Label Elements:**

Labelling according to regulation (EC) No 1272/2008 [CLP]

**Hazard Pictograms:**



**Signal Word:**

Danger

**Hazard Statement(s):**

H315: Causes skin irritation;  
H318: Causes serious eye damage;  
H412: Harmful to aquatic organisms with long lasting effects.

**Precautionary Statement(s):**

P264: Wash thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/ protective clothing/ eye protection / face protection.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTRE or doctor.

**Supplementary Precautionary Statement(s):**

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P501: Dispose of container and contents to hazardous waste or special waste collection point.

**Supplementary Hazard Information (EU)**

EUH208: Contains Trimethyltriazinetriethanole. May produce an allergic reaction.

**Hazard Determining Component(s)**

2-butoxyethanol,  
3,3'-methylenebis[5-methyloxazolidine,  
docusate sodium  
bis(2-ethylhexyl)maleate.

2.3

**Other hazards:**

None

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## SECTION 3

## COMPOSITION / INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Ingredient Name	Cas No	EC No	REACH Registration Number	% Wt	Classification according to Regulation (EC) No 1272/2008 [CLP]	Additional information
Triiron tetraoxide	1309-37-1	215-168-2	01-2119457646-28	< 30	Not classified.	Has WEL
2-butoxyethanol	111-76-2	203-905-0	01-2119475108-36	< 5	Acute Tox. 4 H302 Acute Tox. 4 H312 Acute Tox. 4 H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319.	-
3,3'-methylenebis[5-methyloxazolidine]	66204-44-2	266-235-8		< 2	Acute Tox. 4 H301 Acute Tox. 4 H332 Skin Corr. 1C H314	-
Docosate sodium	577-11-7	209-406-4	01-2119491296-29	< 2	Skin Irrit. 2 H315; Eye Dam. 1 H318.	-
Methyl-oxirane polymer with oxirane	9003-11-6			< 1	Not classified.	-
Bis(2-ethylhexyl)maleate	142-16-5	205-524-5		< 1	STOT RE 2 H373 (oral, kidney) Aquatic Acute 1 H400 M factor 1 Aquatic Chronic 1 H410 M factor 1	-
2,2-Dimethylpropane-1,3 diol	126-30-7	204-781-0	01-2119480396-30	< 1	Eye Dam. 1 H318	-
Ethylene glycol	107-21-1	203-473-3		< 0.5	Acute Tox. 4 H302 STOT RE 2 H373.	Has WEL
Trimethyltriazinetriethanole	25254-50-6	246-764-0		< 0.5	Acute Tox. 4 H302 Skin Irrit. 2 H315 Skin Sens. 1 H317 Eye Irrit. 2 H319	-
alpha-octadecyl-omega-hydroxy-polyglycoether	9005-00-9			<0.2	Eye Dam. 1 H318; Aquatic Acute H400, Aquatic Chronic 2 H411.	-

Note: Hazard statement(s) in this section apply only to raw materials, not necessarily to finished products.

\*See Section 16 for hazard statement(s) text in full.

## SECTION 4

## FIRST AID MEASURES

### 4.1 Description of first aid measures:

#### General notes:

If symptoms persist, seek medical attention. Show this safety data sheet to the doctor in attendance.

#### Following inhalation:

Remove to fresh air. Keep at rest. If not breathing give artificial respiration. Seek medical attention if symptoms occur.

#### Following skin contact:

Flush with water, use soap if available. Contaminated clothing should be washed before re-use. If skin irritation occurs: Get medical advice/attention.

#### Following eye contact:

Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Check for and remove any contact lenses if easy to do. Seek medical attention immediately.

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- Following ingestion:** Do NOT induce vomiting. Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention if symptoms occur.
- Self-protection of the first aider:** No action shall be taken involving any personal risk or without suitable training. If it is suspected that the mixture is still present, wear appropriate personal protective equipment.
- 4.2 Most important symptoms, both acute and delayed:**  
No delayed effects known.
- 4.3 Indication of any immediate medical attention and special treatment needed:**  
Eye wash bottle must be readily available when product is in use.

## SECTION 5

### FIREFIGHTING MEASURES

- 5.1 Extinguishing media:**  
**Suitable extinguishing media:** Carbon dioxide, foam, dry chemical, water fog or spray.
- 5.2 Unsuitable extinguishing media:** High pressure water jet.  
**Special hazards arising from the substance or mixture:** Material is non-flammable but is combustible. Keep unaffected containers cool with water spray.
- Hazardous combustion products:** Smoke, soot, oxides of carbon and nitrogen. Burning vapour may give off toxic fumes.
- 5.3 Advice for fire-fighter:**  
Self contained breathing apparatus and full protective clothing must be worn. Water spray should be used to cool containers.

## SECTION 6

### ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures:**  
Suitable protective equipment (see Section 8) should be worn to prevent any contamination of skin, eyes and personal clothing.  
**For non-emergency personnel:** Remove ignition sources.  
**For emergency responders:** Remove ignition sources. Keep unnecessary people at a safe distance.
- 6.2 Environmental precautions:**  
Prevent liquid from entering drains, sewers and watercourses. Notify the Environment Agency or water authorities if a major spillage occurs. Prevent product contaminating soil.
- 6.3 Methods and material for containment and cleaning up:**  
Ventilate well. Eliminate sources of ignition.  
**For containment:** Contain spilled liquid with sand or earth. Mop up or absorb onto an inert absorbent. Place in container for disposal according to local/national regulations. Large spills should be pumped into containers pending disposal. Dispose of waste according to local/national regulations.  
**For cleaning up:** Do not flush away residues with water.  
**Other information:** No other information.
- 6.4 Reference to other sections:**  
For Personal Protective Equipment see Section 8. For disposal information see Section 13.

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## SECTION 7

## HANDLING & STORAGE

- 7.1 Precautions for safer handling:**
- Protective Measures:** Wear suitable protective clothing such as chemical resistant gloves, apron and goggles/face mask to protect from splashes. Avoid contact with skin and eyes.
- Measures to prevent fire:** No special measures required.
- Advice on general occupational hygiene:** Wash thoroughly after handling.
- 7.2 Conditions for safe storage, including any incompatibilities:**
- Technical measures and storage conditions:** Store in original container in a cool dry area away from heat and sources of ignition. Keep containers tightly closed when not in use.
- Packaging materials:** Store in original container.
- Requirements for storage rooms and vessels:** Recommended storage temperature 10 °C to 30 °C. Keep containers out of direct sunlight.
- Further information on storage conditions:** Rotate stock and check regularly for damaged items.
- 7.3 Specific end use(s):**
- Recommendations:** Use only for Non Destructive Testing (NDT) applications.
- Industrial sector specific solutions:** See product data sheet for further information.

## SECTION 8

## EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters:**
- Occupational exposure limit values:** Occupational exposure figures have been set for some of the components of this preparation based on GESTIS International Limit Values or manufacturers' recommendation.

Ingredient name	Country	Limit value - 8 hours		Limit value - short term	
		ppm	mg /m <sup>3</sup>	ppm	mg /m <sup>3</sup>
Iron Oxide fume or respirable dust (as Fe).	UK		5		10
	Sweden		3.5		
2-butoxyethanol	UK	25	123	50	246
	EU	20	98	50	246
	Germany (AGS)	10	49	40 (1)	196 (1)
	Sweden	10	50	20 (1)	100 (1)
Ethylene glycol, vapour	UK	20	52	40	104
	EU	20	52	40	104
	Germany (AGS)	10 (2)	26 (2)	20 (2)(3)	52(2)(3)
	Sweden	10	25	20 (1)	50(1)
Germany (1) 15 minutes average value. Sweden (1) Short term value, 15 minutes average value. Germany (2) Inhalable aerosol and vapour. (3) 15 minutes reference period.					
Data obtained from <a href="http://limitvalue.ifa.dguv.de/Webform_gw.aspx">limitvalue.ifa.dguv.de/Webform_gw.aspx</a>					

**Note:** Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.

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## Derived No Effect Level (DNEL) - Triiron tetraoxide

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Local	10mg /m <sup>3</sup> (inhalable dust)
Worker	Inhalation	Long term	Local	3 mg/m <sup>3</sup> (respirable dust)

## Derived No Effect Level (DNEL) - 2-butoxyethanol

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Short term	Systemic	652 mg /m <sup>3</sup>
Worker	Inhalation	Long term	Systemic	98 mg/m <sup>3</sup>
Worker	Dermal	Short term	Systemic	89 mg/kg/day
Worker	Dermal	Long term	Systemic	75 mg/kg/day

## Derived No Effect Level (DNEL) - ethylene glycol

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Dermal	Long term	Systemic	106 mg/kg
Worker	Inhalation	Long term	Local	35 mg/m <sup>3</sup>

## Derived No Effect Level (DNEL) - 2,2-Dimethylpropane=1,3 diol

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Dermal	Long term	Systemic	5 mg/kg
Worker	Inhalation	Long term	Systemic	8.7 mg/m <sup>3</sup>

## Derived No Effect Level (DNEL) - Docusate sodium

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Dermal	Long term	Systemic	31.3 mg/kg
Worker	Inhalation	Long term	Systemic	44.1 mg/m <sup>3</sup>

## Derived No Effect Level (DNEL) - Bis(2-ethylhexyl)maleate

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Dermal	Long term	Systemic	0.42 mg/kg
Worker	Inhalation	Long term	Systemic	1.95 mg/m <sup>3</sup>

**Note:** The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accordance with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a government regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

## Predicted No Effect Concentration (PNEC)

	2-butoxy ethanol	Ethylene glycol	2,2-dimethyl propane-1,3-diol	Docusate sodium	Bis(2-ethylhexyl) maleate
Water - Fresh Water	8.8 mg/l	10 mg/l	5 mg/l	0.0066 mg/l	0.00104 mg/l
Water - Marine Water	0.88 mg/l	1 mg/l	0.5 mg/l	0.00066 mg/l	0.000104 mg/l
Water - Intermittent release	9.1mg/l	10 mg/l	5 mg/l	0.066 mg/l	0.00619 mg/l
Sediment - Fresh water	34.6 mg/kg	20.9 mg/kg	18.5 mg/kg	0.653 mg/kg	15.95 mg/kg
Sediment - Marine water	3.46 mg/kg	3.7 mg/kg	1.85 mg/kg	0.0653 mg/kg	1.595 mg/kg
Soil	2.8 mg/kg	1.53 mg/kg	0.764 mg/kg	0.138 mg/kg	3.19 mg/kg
Sewage Treatment plant	463 mg/l	199.5 mg/l	20 mg/l	122 mg/l	100 mg/l

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## 8.2 Exposure controls:

Concentrations of product vapours and mists in the working atmosphere must be kept as low as is reasonably practicable. Exposure should be minimised by the use of appropriate containment, engineering control and ventilation measures.

Where this is not possible, personal protective equipment should be worn as indicated below where appropriate.

### Appropriate engineering controls:

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limits are not exceeded.

Provide eye wash station.

### Personal protection equipment:

#### Eye and face protection:

Safety glasses with side-shields conforming to EN166.

#### Skin protection - hand:

Protective gloves conforming to EN374-3. Use gloves recommended as suitable for detergents if hand exposure is unavoidable.

As the product is a preparation, consult the glove manufacturer for exact breakthrough time.

#### Skin protection – other:

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the specific workplace.

#### Respiratory protection:

For nuisance exposures use type P1 (EU EN 143) particle respirator.

For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under CEN standards.

#### Thermal hazards:

Not applicable

#### Environmental exposure controls:

Avoid any release to the environment.

## SECTION 9

## PHYSICAL & CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

Appearance:	Black liquid.
Odour:	Bland.
Odour threshold:	No data available.
pH:	9
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	100 °C.
Flash point (PMCC):	None.
Evaporation rate (BuAC = 100):	< 0.1.
Flammability (solid, gas) (Limits in air):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Vapour pressure:	No data available.
Vapour density (Air = 1):	> 1.
Relative density:	1.4 g/cm <sup>3</sup> .
Solubility:	Partially soluble.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity (ASTM D445):	No data available.

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**Explosive properties:**

No data available.

**Oxidising properties:**

No data available.

**Note: properties relate to the bulk product only unless otherwise stated.**

**9.2 Other information:**  
No other information.

## SECTION 10 STABILITY & REACTIVITY

<b>10.1</b>	<b>Reactivity:</b>	No data available.
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions of use and applications.
<b>10.3</b>	<b>Possibility of hazardous reactions:</b>	No data available.
<b>10.4</b>	<b>Conditions to avoid:</b>	None under normal conditions of storage and use.
<b>10.5</b>	<b>Incompatible materials:</b>	Strong oxidising agents. Acids and alkalis.
<b>10.6</b>	<b>Hazardous decomposition materials:</b>	None under normal conditions of use. Smoke, soot and oxides of carbon on combustion.

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>11.1</b>	<b>Information on toxicological effects:</b>	based on data for component materials.
	<b>Acute toxicity - oral:</b>	Based on the available data, the classification criteria are not met
	<b>Acute toxicity – dermal:</b>	Based on the available data, the classification criteria are not met
	<b>Acute toxicity – inhalation:</b>	Based on the available data, the classification criteria are not met
	<b>Skin corrosion/irritation:</b>	Skin Irrit. 2, H315: Causes skin irritation.
	<b>Serious eye damage/irritation:</b>	Eye Dam. 1, H318: Causes serious eye damage.
	<b>Respiratory sensitisation:</b>	Based on tests of individual components, this preparation is not sensitising.
	<b>Skin sensitisation:</b>	EUH208: Contains Trimethyltriazinetriethanole. May produce an allergic reaction.
	<b>Germ cell mutagenicity:</b>	Based on individual components, this preparation is not expected to show mutagenic effects.
	<b>Carcinogenicity:</b>	Based on individual components, this preparation is not expected to show carcinogenic effects.
	<b>Reproductive toxicity:</b>	Based on individual components, this preparation is not expected to show reproductive toxicity.
	<b>STOT single exposure:</b>	Based on the available data, the classification criteria are not met
	<b>STOT repeated exposure:</b>	Based on the available data, the classification criteria are not met



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Aspiration hazard:

No data available.

## Information on likely Routes of Exposure and Potential Health Effects:

**Inhalation:**

Inhalation of product mist may cause discomfort of the respiratory tract.

**Ingestion:**

Ingestion may cause discomfort of the mouth, throat and digestive tract.

**Eye contact:**

Causes serious eye damage.

**Skin contact:**

Causes skin irritation.

**Toxicity Test Results:** based on data for component materials, where available.

### Triiron tetraoxide

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity - dermal	LD50 (rabbit)	non-irritating
Acute Toxicity - inhalation	LC50 (rat)	no data available

### 2-butoxyethanol

Acute Toxicity – oral	LD50 (rat)	1300 mg/kg
Acute Toxicity - dermal	LD50 (rabbit)	> 2000 mg/kg
Acute Toxicity - inhalation	LC50 (rat)	2 mg/l 4 hours (vapours)

### 3,3'-methylenebis[5-methyloxazolidine]

Acute Toxicity – oral	LD50 (rat)	900 mg/kg
Acute Toxicity - dermal	LD50 (rat)	1207 - 1620 mg/kg, OECD Test Guideline 402, not applicable, corrosive substance. According to Guideline 402 a non corrosive substance has to be tested.
Acute Toxicity - inhalation	LC50 (rat)	2 mg/l 4 hours (dust, mist)

### Preparation containing docusate sodium, 2,2-Dimethylpropane-1,3 diol and Bis(2-ethylhexyl)maleate

Acute Toxicity – oral	LD50 (rat)	> 2000 mg/kg
Acute Toxicity - dermal	LD50 (rabbit)	Irritant (OECD Guideline 404)
Eye Damage / Irritation	Rabbit	Risk of serious damage to eyes (manufacturer's test).

### Methyl-oxirane polymer with oxirane

Acute Toxicity – oral	LD50 (rat)	> 2000 mg/kg (OECD Guideline 401)
Acute Toxicity - dermal	LD50 (rabbit)	non-irritant (Draize test)
Eye Damage / Irritation	Rabbit	non-irritant (Draize test)

### Ethylene glycol

Acute Toxicity – oral	LDL0 (human)	1600 mg/kg
Acute Toxicity - dermal	LD50 (mouse)	3500 mg/kg
Acute Toxicity - inhalation	LC50 (rat)	2.5 mg/l 6 hours

### alpha-octadecyl-omega-hydroxy-polyglycoether

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity - dermal	LD50 (rabbit)	> 2000 mg/kg

**Other Information:**

No other information.

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## SECTION 12

## ECOLOGICAL INFORMATION

Based on data for component materials

### 12.1 Toxicity:

#### Triiron tetraoxide

Fish	Danio rerio	Acute LC0	96 hours	> 10 000mg/l
Aquatic Invertebrates	Daphnia magna	Acute EC0	48 hours	> 10 000 mg/l

#### 2-butoxyethanol

Fish	Onchorynchus mykiss	LC50	96 hours	1474 mg/l
Aquatic Invertebrates	Daphnia magna	EC50	48 hours	1550 mg/l
Aquatic Invertebrates	Daphnia magna	NOEC	21 days	100 mg/l
Aquatic Plants		EC50	72 hours	1840 mg/l

#### 3,3'-methylenebis[5-methyloxazolidine]

Fish	Brachidanio rerio	LC50		57.7 mg/l
Aquatic Invertebrates	Daphnia magna	EC50	48 hours	37.9 mg/l
Algae	Desmodesmus subspicatus	EC50	72 hours	5.7 mg/l
Bacteria		EC50		44 mg/l (OECD 209)

#### Preparation containing docusate sodium, 2,2-Dimethylpropane-1,3 diol and Bis(2-ethylhexyl)maleate

Fish	Leuciscus idus	LC50	96 hours	10 - 100 mg/l
Aquatic Invertebrates		EC50	48 hours	10 - 100 mg/l
Aquatic Plants		EC50	72 hours	> 100 mg/l
Microorganisms	Activated sludge	EC50	96 hours	> 10 000 mg/l

#### Methyl-oxirane polymer with oxirane - analogous assessment, derived from products with similar chemical character

Fish	Leuciscus idus	LC50	96 hours	> 100 mg/l
Aquatic Invertebrates		EC50	48 hours	> 100 mg/l
Aquatic Plants		EC50	72 hours	> 100 mg/l

#### Ethylene glycol

Fish	Pimephales promelas	LC50	96 hours	72 860 mg/l
Fish	Pimephales promelas	NOEC	7 days	15 380 mg/l
Aquatic Invertebrates	Daphnia magna	EC50	48 hours	100 mg/l
Aquatic Invertebrates	Ceriodaphnia Dubia	NOEC	7 days	8590 mg/l
Algae	Selenastrum capricornutum	EC50	96 hours	6 500 - 13 000 mg/l
Microorganisms	Activated sludge	EC20	0.5 hours	1995 mg/l

#### alpha-octadecyl-omega-hydroxy-polyglycolether

Fish	Danio rerio	LC50	96 hours	200 mg/l
Fish	Danio rerio	LC100	96 hours	680 mg/l
Fish	Danio rerio	LC0	96 hours	60 mg/l

### 12.2 Persistence and degradability:

Biodegradable.

### 12.3 Bioaccumulative potential:

This preparation does not contain any substances expected to be bioaccumulative. 3,3'methylenebis[5-methyloxazolidine], log Pow = -0.3.

**Partition coefficient: n-octanol/water (log Kow):**

Ethylene glycol, log Pow = -1.36 (23°C)

**Bioconcentration factor (BCF):**

No data available.

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12.4	<b>Mobility in soil:</b>	Triiron tetraoxide - immobile.
12.5	<b>Results of PBT and vPvB assessment:</b>	This mixture does not contain any substances that are assessed to be PBT or vPvB.
12.6	<b>Other adverse effects:</b>	No data available.

## SECTION 13 DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods:</b>	Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.
	<b>Product/packing disposal:</b>	Empty containers may contain residue and can be dangerous. Do NOT remove labels.
	<b>Waste codes/waste designations according to LoW:</b>	08 03 08 aqueous liquid waste containing ink

NOTE: Waste codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use. Waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste code(s).

<b>Waste treatment – relevant information:</b>	Dispose of waste and residues in accordance with local authority requirements. Seek the advice of an approved waste disposal contractor for disposal at a licensed facility in accordance with national legislation.
<b>Sewage disposal – relevant information:</b>	Do not empty down the drain.
<b>Other disposal recommendations:</b>	Use a licensed waste contractor.

## SECTION 14 TRANSPORT INFORMATION

14.1	<b>UN number:</b>	ADR/RID:	-
		IMDG:	-
		IATA:	-
14.2	<b>UN proper shipping name:</b>	ADR/RID:	Not dangerous goods.
		IMDG:	Not dangerous goods.
		IATA:	Not dangerous goods.
14.3	<b>Transport hazard class(es):</b>	ADR/RID:	-
		IMDG:	-
		IATA:	-
14.4	<b>Packing group:</b>	ADR/RID:	-
		IMDG:	-
		IATA:	-
14.5	<b>Environmental hazards:</b>	ADR/RID:	-
		IMDG:	-
		IATA:	-
14.6	<b>Special precautions for user:</b>		
	Not applicable.		
14.7	<b>Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:</b>		
	Not applicable.		

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## SECTION 15

## REGULATORY INFORMATION

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

#### EU Regulations:

This data sheet complies with the requirements of Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures.

Safety data sheet as required by EU Regulations 1907/2006 and REACH Annex II Amendment (EU) No. 2015/830.

#### Information according to 2013/10/EU and 2008/47/EC amendment of the aerosol directive 75/324/EEC.

Not applicable - this product is not an aerosol.

#### National regulations (Germany):

#### Wassergefährdungsklasse (water hazard class):

WGK1 - Low hazard to water.

#### TechnischeAnleitungLuft (TA-Luft):

< 30% Class 5.2.1 Overall dust, including fine dust.

### 15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this mixture by the supplier.

## SECTION 16

## OTHER INFORMATION

### (i) Indication of changes:

This safety data sheet has been updated to meet the requirements of Regulation EU No 2015/830 and Regulation (EC) No 1272/2008. Removal of the classification according to 67/548/EEC as amended & Directive 1999/45/EC.

Version 16.1 also updated in Sections 2, 3, 4, 8, 11, 12 and 16 due to updated safety information.

Vertical lines on the left hand side indicate an amendment from the previous version.

### (ii) Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road (Accord européen relatif au transport international des marchandises Dangereuses par Route)
CAS No.	Chemical Abstracts Service number
CEN	European Committee for Standardisation
CLP	Classification, Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ECHA	European Chemicals Agency
EC50	Half Maximal Effective Concentration
EC number	EINECS and ELINCS number
EINECS	European Inventory of Existing Commercial Substances
ELINCS	European List of notified Chemical Substances
GHS	Globally Harmonized System
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population
MPI	Magnetic Particle Inspection
NDT	Non-Destructive Testing
OEL	Occupational Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic Substance
PMCC	Pensky-Martens closed cup method
PNEC	Predicted No Effect Concentration
PPE	Personal Protection Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC (No) 1907/2006

# SAFETY DATA SHEET

RID	Regulations concerning the International Carriage of Dangerous Goods by Rail (Reglement International concernant le transport des marchandises Dangereuses par chemin de fer)
SDS	Safety Data Sheet
STOT RE	Specific Target Organ Toxicity, Repeat Exposure
STOT SE	Specific Target Organ Toxicity, Single Exposure
TA-Luft	Technical Instructions on Air Quality Control (Technische Anleitung zur Reinhaltung der Luft)
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limit
WGK	German Water Hazard Class (Wassergefährdungsklasse)

**(iii) Key literature and sources of data:**

Supplier's safety data sheets for components listed in Section 3.  
 European Chemicals Agency, <http://echa.europa.eu/>  
 GESTIS International Limit Values Database, [http://limitvalue.ifa.dguv.de/Webform\\_gw.aspx](http://limitvalue.ifa.dguv.de/Webform_gw.aspx)  
 Occupational Exposure Limits EH40/2005.  
 Commission regulation (EU) 2015/830.  
 Control of Substances Hazardous to Health Regulations 2002.  
 Hazardous waste regulations 2005.  
 Health & Safety at Work Act 1974.  
 REACH Directive (EC) 1907/2006.

**(iv) Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 (CLP):**

Classification according to Regulation (EC) No 1272/2008	Classification procedure
Eye Dam. 1, H318	Calculation Method
Skin Irrit. 2, H315	Calculation Method
Aquatic chronic 3, H412	Calculation Method
EUH208	Calculation Method

**(v) Hazard statements (number and full text):**

H301: Toxic if swallowed.  
 H302: Harmful if swallowed.  
 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.  
 H319: Causes serious eye irritation.  
 H332: Harmful if inhaled.  
 H373: May cause damage to organs through prolonged or repeated exposure.  
 H400: Very toxic to aquatic life.  
 H410: Very toxic to aquatic life with long lasting effects.  
 H411: Toxic to aquatic life with long lasting effects.  
 H412: Harmful to aquatic life with long lasting effects.  
 EUH208: Contains Trimethyltriazinetriethanole. May produce an allergic reaction.

**Hazard Class and Category Code (full text):**

Acute Tox. 4: Acute Toxicity  
 Aquatic Acute 1: Hazardous to the aquatic environment  
 Aquatic Chronic 1: Hazardous to the aquatic environment  
 Aquatic Chronic 2: Hazardous to the aquatic environment  
 Aquatic Chronic 3: Hazardous to the aquatic environment  
 Eye Dam. 1: Serious eye damage/eye irritation  
 Eye Irrit. 2: Serious eye damage/eye irritation  
 Skin Corr. 1C: Skin corrosion/irritation  
 Skin Irrit. 2: Skin corrosion/irritation  
 Skin Sens. 1: Respiratory/skin sensitisation  
 STOT RE 2: Specific target organ toxicity - repeat exposure

**Relevant precautionary statements (number and full text):**

P264: Wash thoroughly after handling.  
 P273: Avoid release to the environment.

# SAFETY DATA SHEET

P280: Wear protective gloves/ protective clothing/ eye protection / face protection.  
P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTRE or doctor.  
P332+P313: If skin irritation occurs: Get medical advice/attention.  
P362+P364: Take off contaminated clothing and wash it before reuse.  
P501: Dispose of container and contents to hazardous waste or special waste collection point.

**(vi) Training advice:**

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene. Chemical hazard risk assessment. Provide adequate information, instruction and training to operators.

## DISCLAIMER

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391/EEC and 98/24/EC amended by Directive 2014/27/EU.

<b>Revision summary:</b>	<b>Revision Comments</b>	
		This SDS is valid from the Revision Date. If you require a SDS for product manufactured before the Revision Date please contact us at <a href="mailto:datasheets@magnaflux.co.uk">datasheets@magnaflux.co.uk</a>
	<b>Revision Date</b>	01.04.2016
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