

Version 17.1 replaces Version 16.1 Revision date: 01.01.2017 According to (EU) No. 2015/830

**SECTION 1** 

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

1.1 Product identifier: ZYGLO® ZL-60C - aerosol

1.2 Relevant identified uses of the mixture and uses advised against:

Relevant identified uses: Fluorescent penetrant used in Non

Destructive Testing (NDT) inspection.

**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

Email address of competent person datasheets@magnaflux.co.uk

responsible for SDS:

National contact: None appointed.

1.4 Emergency telephone number: DURING OFFICE HOURS, CALL

T: +44 (0)1793 524566 (English only)

**Opening hours:** Office hours (GMT) Monday - Thursday 8am

- 5pm, Friday 8am - 4pm

OUT OF OFFICE HOURS, CALL

T: +44(0)203 394 9866

**SECTION 2** 

**HAZARDS IDENTIFICATION** 

2.1 Classification of the substance or mixture:

Classification according to Regulation Physical and Chemical Hazard:

(EC) No 1272/2008 (CLP): Aerosol 1 H222, H229 Health Hazard:

> Skin Irrit. 2 H315 Eye Dam. 1 H318 Environmental Hazard:

Aquatic Chronic 3 H412

Additional information EUH066

For full text of hazard statements and EU hazard statements see SECTION 16.

#### 2.2 **Label Elements:**

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

**Hazard Pictograms:** 





**Signal Word:** Danger

**Hazard Statement(s):** H222: Extremely flammable aerosol. H229: Pressurised container: May burst if

heated.

H315: Causes skin irritation.

H318: Causes serious eye damage. H412: Harmful to aquatic life with long

lasting effects.

**Precautionary Statement(s):** P210: Keep away from heat, hot surfaces,

sparks, open flames and other ignition

sources. No smoking.

P211: Do not spray on an open flame or

other ignition source.

P251: Do not pierce of burn even after use. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy

to do - continue rinsina.

P310: Immediately call a POISON CENTER

or doctor/physician.

P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. P501: Dispose of contents/container to hazardous waste or special collection point. P264: Wash thoroughly after handling.

P273: Avoid release to the environment. P302+P352: IF ON SKIN: Wash with soap

and water.

P332+P313: If skin irritation occurs: Get

medical advice/attention.

P362+P364: Take off contaminated clothing

and wash it before reuse.

**Supplementary Hazard Information** 

**Supplementary Precautionary** 

Statement(s):

**Hazard Determining Component(s)** 

EUH066: Repeated exposure may cause

skin dryness or cracking

Alcohols, C12-C15, branched and linear,

ethoxylated, propoxylated

Alcohols, C11 – C15 secondary ethoxylated

Oleic acid monoisopropanolamide

#### 2.3 Other hazards:

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Vapours can form explosive mixtures with air.

**SECTION 3** 

### **COMPOSITION / INFORMATION ON INGREDIENTS**

### 3.2 Mixtures

Ingredient Name	CAS No	EC No	REACH Registration Number	% Weight	Classification according to Regulation (EC) No 1272/2008 [CLP]	Additional information
Hydrocarbons C12-C15 n- alkanes, isoalkanes, cyclic, < 2% aromatics	-	920- 107-4	01- 2119453414-43	50 - 70	Asp. Tox. 1: H304 (note 1)	EUH066
Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated	120313- 48-6	-	-	< 15	Eye Dam. 1: H318 Aquatic Chronic 2: H411	None
Alcohols, C11 – C15 secondary ethoxylated	68131- 40-8	614- 295-4	-	< 15	Skin Irrit. 2: H315 Eye Dam. 1 H318	None
Hydrocarbons, C3-4-rich petroleum distillate petroleum gas (1.3 butadiene < 0.1%)	68512- 91-4	270- 990-9	(note2)	10-30	Press. Gas H280 Flam. Gas 1 H220	(note3)
Oleic acid monoisopropanolamide	111-05- 7	-	-	< 3	Eye Dam. 1 – H318 Skin. Irrit. 2 – H315	None
Terpineol	8000- 41-7	232- 368-1	01- 2119553062-49	< 2	Skin Irrit. 2: H315 Eye Irrit. 2 H319	None

- 1. Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.
- 2. Exempted from the obligation to register in accordance with art.2(7)(a) of REACH Regulation No 1907/2006
- B. Not classified as carcinogen, less than 0.1% w/w 1,3 butadiene (EINECS no 203-450-8)

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	Descri	ption	of	first	aid	measures:
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Following skin contact:

**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. Flush with water, use soap if available. Take off contaminated clothing and wash before re-use. If skin irritation or rash occurs: get medical advice/attention.

Following eye contact: Flush eyes with large amounts of water for

at least 15 minutes. Check for and remove any contact lenses if easy to do - continue

rinsing. Seek medical attention

immediately.

Following ingestion: Unlikely route of exposure. Do NOT induce

vomiting. If vomiting occurs, keep head low so that stomach contents don't enter the lungs. Never give anything by mouth to an unconscious person. Sook medical

unconscious person. Seek medical

attention immediately.

**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.

#### Most important symptoms, both acute and delayed: 4.2

Risk of serious damage to eyes. 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.

Unsuitable extinguishing media: Do not use water jet.

Special hazards arising from the 5.2 Evacuate immediate area. Shut off 'fuel' to substance or mixture:

fire. If possible keep unaffected containers

cool with water spray.

Aerosols may explode in a fire.

Aerosol contents are extremely flammable. Smoke, soot and oxides of carbon. Burning

vapour may give off toxic fumes.

5.3 Advice for fire-fighter:

Warn firefighters that aerosols are involved.

**Hazardous combustion products:** 

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. Avoid breathing

vapours, mist or gas. Ensure adequate ventilation. Vapours are likely to accumulate

in low areas.

For emergency responders: Keep unnecessary people at a safe

> distance. Remove ignition sources. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Vapours are likely to

accumulate in low areas.

#### 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 from contaminating soil.

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

Eliminate sources of ignition. Take measures to prevent the build-up of electrostatic charge.

For containment: Contain spilled liquid with sand or earth.

Mop up or absorb onto with non-

combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Place in a container for disposal according

to local/national regulations.

Large spills should be pumped (using an earthed explosion proof pump) into

containers pending disposal.

Allow residues to evaporate. Do not flush For cleaning up:

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

**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. Ensure adequate exhaust ventilation when

in use.

Avoid contact with skin and eyes. Do not

breathe product spray or mist.

Measures to prevent fire: Aerosol contents are highly flammable and

volatile. Keep away from sources of ignition

no smoking.

Take measures to prevent the build-up of

electrostatic charge.

Equipment should be earthed. Use

explosion proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

Wash thoroughly after handling.

Advice on general occupational

hygiene:

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage

conditions:

Store in a cool dry area away from heat and

sources of ignition. Keep containers closed

when not in use.

Packaging materials: Store in original container.

Requirements for storage rooms and

vessels:

Pressurised container: protect from sunlight

and do not expose to temperatures

exceeding 50 °C.

Recommended storage temperature 10 °C

to 30 °C.

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 valu	ie - 8 hours	Limit value -	short term
		ppm	mg /m³	ppm	mg /m³
Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics	Supplier's recommendation	150	1200		
Data obtained from supp	lier's SDS				

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

**Derived No Effect Level (DNEL) –** Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	No threshold effect and/or no dose- response information available.
Worker	Inhalation	Short term	Local	No threshold effect and/or no dose- response information available.
Worker	Dermal	Long term	Systemic	No threshold effect and/or no dose- response information available.

Derived No Effect Level (DNEL) - Terpineol

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	5.8 mg/m <sup>3</sup>
Worker	Inhalation	Short term	Systemic	5.8 mg/m <sup>3</sup>
Worker	Dermal	Long term	Systemic	1.17 mg/kg bw/day
Worker	Dermal	Short term	Systemic	5 mg/kg bw/day

**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 Hygenists (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)** 

	Hydrocarbons C12-C15 n-alkanes,	Terpineol
	isoalkanes, cyclic, < 2% aromatics	
Water - Fresh Water	No data available, testing technically	62 μg/L
Water - Marine Water	not feasible.	6.2 μg/L
Water - Intermittent release		No data available.
Sediment - Fresh water		0.442 mg/kg sediment dw
Sediment - Marine water		0.044 mg/kg sediment dw
Soil		0.052 mg/kg soil dw
Sewage Treatment plant		2.57 mg/L

### 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 eye wash station.

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure

limits are not exceeded.

Personal protection equipment:

Skin protection - other:

Eye and face protection: Safety glasses with side-shields

conforming to EN166.

**Skin protection - hand:** Protective gloves conforming to EN374-3.

Use chemical resistant gloves

recommended by glove manufacturer as being suitable for **kerosenes** if hand

exposure is unavoidable.

Protective gloves made of nitrile,

**neoprene or PVC** are suitable, although other types may be more suitable in other

circumstances.

For prolonged exposure, recommended gloves with protective index 6, > 480 minutes permeation time according to

EN374.

As the product is a preparation, consult

the glove manufacturer for exact

breakthrough time. Glove manufacturer's directions for use should be observed. Wear impervious, flame retardant

antistatic protective clothing. The type of protective equipment must be selected according to the concentration and amount of dangerous substance at the

specific workplace.

**Respiratory protection:** If ventilation is insufficient, suitable

respiratory protection must be provided. Chemical respirator with organic vapour cartridge. Use respiratory equipment with gas filter, type A2. EN 136/ 140/ 145/

143/ 149

For higher level protection use type ABEK-P3 (EU EN 143) respirator cartridges. Use respirators and

components tested and approved under

CEN standards. Not applicable.

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:** Aerosol containing yellow/ green liquid.

Odour: Mild pine.

Odour threshold: No data available.

pH: Neutral.

Melting point/freezing point: No data available.

Initial boiling point and boiling range: 230 °C.

Flash point (PMCC): -40 °C (aerosol propellant).

Evaporation rate (BuAC = 100): < 0.1.

Flammability (solid, gas) (Limits in air): No data available. Upper/lower flammability or explosive 1.0 - 6.0 % (Vol %).

limits:

Vapour pressure: < 0.5 mm Hg @ 20 °C.

Vapour density (Air = 1): > 1.

**Relative density:** 0.88 g/cm<sup>3</sup>. **Solubility:** Emulsifies.

Partition coefficient: n-octanol/water: No data available.

Auto-ignition temperature: > 200 °C.

Decomposition temperature:No data available.Viscosity (ASTM D445):7.0 mm²/s @ 38 °C.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

**10.1 Reactivity:** No data available.

**10.2** Chemical stability Stable under normal conditions of use and

applications.

**10.3** Possibility of hazardous reactions: No data available.

**10.4** Conditions to avoid: Keep away from sources of ignition, hot

surfaces, direct sun light and static

discharge.

**10.5** Incompatible materials: Strong oxidising agents. Acids and alkalis.

**10.6 Hazardous decomposition materials:** None under normal conditions of use.

Smoke, soot and oxides of carbon on

combustion.

### SECTION 11 TOXICOLOGICAL INFORMATION

**11.1 Information on toxicological effects:** based on data for component materials.

**Acute toxicity - oral:**Based on the available data, the classification

criteria are not met.

**Acute toxicity – dermal:** Based on the available data, the classification

criteria are not met.

**Acute toxicity – inhalation:** Based on the available data, the classification

criteria are not met.

**Skin corrosion/irritation:** Skin Irrit. 2, H315: Causes skin irritation.

EUH066: Repeated exposure may cause skin

cracking or dryness.

Serious eye damage/irritation: Eye Dam. 1, H318: Causes serious eye

damage.

**Respiratory sensitisation:** Based on tests of individual components, this

preparation is not sensitising.

**Skin sensitisation:** Based on tests of individual components, this

preparation is not sensitising.

Germ cell mutagenicity: Based on individual components, this

preparation is not expected to show

mutagenic effects.

**Carcinogencity:** Based on individual components, this

preparation is not expected to show

carcinogenic effects.

**Reproductive toxicity:**Based on individual components, this

preparation is not expected to show

reproductive toxicity.

STOT single exposure: Data lacking.

STOT repeated exposure: Data lacking.

**Aspiration hazard:** Mixtures from Aerosol Dispensors - need not

be classified as Asp. Tox. 1 - H304 as the aerosol spray is fine and a pool of product

may not be formed in the mouth.

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

**Inhalation:** May be harmful if inhaled. Causes respiratory

tract irritation.

**Ingestion:** Not a likely route of exposure. However, may

be harmful if swallowed. Ingestion may cause irritation of the mouth, throat and digestive tract. Small amounts of product aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia

or pulmonary edema.

**Eye contact:** Risk of serious damage to eyes.

**Skin contact:** May be harmful if absorbed through skin.

Causes skin irritation. Repeated exposure

may cause skin cracking or dryness.

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

Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg (OECD 401)
Acute Toxicity – dermal	LD50 (rabbit)	> 5000 mg/kg ()ECD 402)
Acute Toxicity – inhalation	LC50 (rat)	4951 mg/l (vapours) 4h (OECD403)

Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated

Acute Toxicity – oral	LD50 (rat)	2,000 – 5,000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	Not determined
Acute Toxicity – inhalation	LC50 (rat)	Not determined

Alcohols, C11 - C15 secondary ethoxylated

Acute Toxicity – oral	LD50 (rat)	> 3,000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 2,000 mg/kg
Acute Toxicity – inhalation	LC50 (rat)	No data.

**Terpineol** 

Acute Toxicity – oral	LD50 (rat)	4300 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 3000 mg/kg
Acute Toxicity – inhalation	LC50 (rat)	No data

Other Information:

No other information

SECTION 12 ECOLOGICAL INFORMATION

### Based on data for component materials

12.1 Toxicity:

Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics

Fish Onchorhynchus mykiss   LC0   96h   1000 mg/l
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Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated

Fish	Leuciscus idus	LC50	96h	1 – 10 mg/l (1)
Microorganisms	Activated Sludge	EC10		> 1000 mg/l (DEV-L2)

Alcohols, C11 – C15 secondary ethoxylated

Fish	Pimephales promelas	LC50	96h	3.5 – 4.9 mg/l
Aquatic Invertebrates	Daphnia Magna	EC50	48h	3.1 mg/l.

12.2 Persistence and degradability: Hydrocarbons C12- C15 n-alkanes,

isoalkanes, cyclics, < 2% aromatics:

expected to be biodegradable.

Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated: moderately

biodegradable.

Alcohols, C11 – C15 secondary ethoxylated: readily biodegradable.

12.3 Bioaccumulative potential: Hydrocarbons C12 - C15 n-alkanes,

isoalkanes, cyclics, < 2% aromatics: no

data available.

Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated: Accumulation in

organisms is not expected.

Alcohols, C11 – C15 secondary ethoxylated: Not expected to be

bioaccumulating.

Partition coefficient: n-octanol/water

**Bioconcentration factor (BCF):** 

(log Kow):

Hydrocarbons C12 - C15 n-alkanes, isoalkanes, cyclics, < 2% aromatics:no

data available.

Alcohols, C12-C15, branched and linear,

ethoxylated, propoxylated: no data

available.

Alcohols C11 - C15 secondary ethoxylated: log Pow = 3.3 - 4.4 Alcohols C11 - C15 secondary ethoxylated: log BCF = 15 - 64

12.4 Mobility in soil: Hydrocarbons C12 - C15 n-alkanes,

isoalkanes, cyclics, < 2% aromatics: this

product is insoluble in water.

Alcohols, C12-C15, branched and linear, ethoxylated, propoxylated: The substance will not evaporate into the atmosphere from the water surface. Adsorption to the solid

phase is possible.

Alcohols C11 - C15 secondary ethoxylated: This product is soluble in

water.

12.5 Results of PBT and vPvB assessment: This mixture does not contain any

substances that are assessed to be a PBT or

vPvB.

**12.6 Other adverse effects:** No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods:

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.

**Product/packing disposal:** Empty containers may contain residual

product and flammable vapours. Do not pierce or burn container, even after use. Do NOT remove labels. Keep away from

sources of ignition.

Waste codes/waste designations

according to LoW:

16 05 04\* gases in pressure containers containing dangerous substances.

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).

Waste treatment – relevant information: 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

disposal at a licensed facility in accordance with national legislation Do not empty down the drain.

Sewage disposal – relevant

information:

Other disposal recommendations:

Use a licensed waste contractor.

### SECTION 14 TRANSPORT INFORMATION

14.1	UN number:		ADR/RID:	UN1950
			IMDG:	UN1950
			IATA:	UN1950
14.2	UN proper shipping name:		ADR/RID:	AEROSOLS, flammable
			IMDG:	AEROSOLS, flammable
			IATA:	AEROSOLS, flammable
14.3	Transport hazard class(es):		ADR/RID:	2.1
			IMDG:	2.1
			IATA:	2.1
14.4	Packing group:		ADR/RID:	N/A
			IMDG:	N/A
			IATA:	N/A
14.5	Environmental hazards:		ADR/RID:	No
			IMDG:	No
			IATA:	No
14.6	Special precautions for user:			
	ADR/RID – Tunnel code:	(D)		
	IMDG – Ems:	F-D, S-U		
	IATA/ICAO – PAX:	203		
	IATA/ICAO – CAO:	203		

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:

Not applicable.

#### 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.

This data sheet is complied according Dir 2013/10/EU, 2008/47/EEC amendment of the aerosol directive 75/324/EEC.

**Extra label elements:** Pressured container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

Mixtures classified as Asp. Tox. 1 H304 need not be labelled when placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

National regulations (Germany):

Wassergefahrdungklasse (water WGK 2 - Hazard to waters.

hazard class):

Technische Anleitung Luft (TA-Luft): Class 5.2.5 Organic substances, except

dusts.

### 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:

Version 17.1 updated in Section 1.4.

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 PPE Personal Protection Equipment

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

EC (No) 1907/2006

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
- Occupational Exposure Limits EH40/2005.
- Regulation (EU) No. 2015/830.
- Control of Substances Hazardous to Health Regulations 2002.
- Hazardous waste regulations 2005.
- Health & Safety at Work Act 1974.
- Regulation (EC) No. 1907/2006 (REACH).
- Regulation (EC) No. 1272/2008 (CLP).

# (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		
Aerosol. 1: H222, H229	Test Method		
Eye Dam. 1 H318	Calculation – non additive approach		
Skin Irrit 2 H315	Calculation		
Aquatic Chronic 3 H412	Calculation		

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

H220: Extremely flammable gas.

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

H280: Contains gas under pressure; may explode if heated.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

EUH066: Repeated exposure may cause skin dryness or cracking.

### Hazard Class Category Code (number and full text):

Aerosol 1: Aerosol

Aquatic Chronic 2: Hazardous to the aquatic environment Aquatic Chronic 3: Hazardous to the aquatic environment

Asp. Tox. 1: Aspiration hazard

Eye Dam. 1: Serious eye damage/eye irritation Eye Irrit. 2: Serious eye damage/eye irritation

Flam. Gas 1 : Flammable gas Press. Gas: Gases under pressure Skin Irrit. 2: Skin corrosion/irritation

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

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

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

P251: Do not pierce of burn even after use.

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

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 CENTER or doctor/physician.

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

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

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

P302+P352: IF ON SKIN: Wash with soap and water.

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

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

### (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.

**Revision** Revision This SDS is valid from the Revision Date. If you require a SDS for the summary Comments product manufactured before the revision date please contact us at

datasheets@magnaflux.co.uk.

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