

# SAFETY DATA SHEET



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:** **BYCOTEST® RP20**
- 1.2 Relevant identified uses of the mixture and uses advised against:**  
**Relevant identified uses:** Red 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](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:** 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 (EC) No 1272/2008 (CLP):** **Physical and Chemical Hazard:** None  
**Health Hazard:** Asp. Tox. 1 H304  
Eye Dam. 1 H318  
**Environmental Hazard:** None  
**Additional information:** EUH066.

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

# SAFETY DATA SHEET

2.2

## Label Elements:

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

## Hazard Pictograms:



## Signal Word:

## Hazard Statement(s):

## Precautionary Statement(s):

## Supplementary Precautionary Statement(s):

## Supplementary Hazard Information (EU)

## Hazard Determining Component(s)

Danger

H304: May be fatal if swallowed and enters airways.

H318: Causes serious eye damage.

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

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

P310: Immediately call a POISON CENTRE or doctor.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331: Do NOT induce vomiting.

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

P405: Store locked up.

EUH066: Repeated exposure may cause skin dryness and cracking.

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl)ether

Hydrocarbon mixture

2.3

## Other hazards:

Spilled liquid could present a slip hazard.

Product may stain skin.

# SAFETY DATA SHEET

## 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	-	926-141-6	01-2119453414-43	< 60	Asp. Tox 1 H304	EUH066
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics	-	927-241-2	01-2119471843-32	< 10	Flam Liq. 3 H226 STOT SE3 H336 Asp Tox 1 H304 Aquatic Chronic 3 H412	EUH066
Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether	166736-08-9	-	-	< 7	Acute Tox 4 H302 Eye Dam. 1 H318	-
Distillates (petroleum) hydrotreated light naphthenic.	64742-53-6	265-156-6	-	< 10	Carc. 1B H350 <sup>(1)</sup> Asp Tox 1 H304	-
1. The classification as a carcinogen need not apply because the hydrocarbon solvent present contains less than 3% DMSO extract as measured by IP346 (Dir. 2001/59/EC, Note L).						

*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 immediately.

#### Following skin contact:

Flush with water, use soap if available. Contaminated clothing should be washed before re-use.

#### Following eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. Seek medical attention immediately.

#### Following ingestion:

Do NOT induce vomiting. Never give anything by mouth to an 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.

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

Product may stain skin.

Risk of serious damage to eyes.

Repeated exposure may cause skin dryness or cracking.

Exposure to petroleum distillates may cause CNS symptoms. If swallowed DO NOT induce vomiting due to aspiration risk posed by petroleum distillates.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Eye wash bottle must be readily available when product is in use.

# SAFETY DATA SHEET

## 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.
- 5.2 Special hazards arising from the substance or mixture:** Evacuate immediate area. Shut off 'fuel' to fire. If possible keep unaffected containers cool with water spray.  
**Hazardous combustion products:** Smoke, soot and oxides of carbon. 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.  
Contaminated extinguishing water must be disposed of in accordance with official regulations.

## 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 contamination of 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.  
Avoid breathing vapours. Ventilate surrounding area.  
**For containment:** Contain spillage, and then collect 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. Dispose of waste according to local/national regulations.  
**For cleaning up:** Allow residues to evaporate. Do not flush away residues with water.  
**Other information:** No other information.

# SAFETY DATA SHEET

- 6.4 Reference to other sections:**  
For Personal Protective Equipment see Section 8. For disposal information see Section 13.

## 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.  
Keep away from sources of ignition – no smoking.  
Take measures to prevent the build-up of electrostatic charge.  
Wash thoroughly after handling.
- Measures to prevent fire:**
- 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 tightly closed.  
Store in original container.
- Packaging materials:**
- Requirements for storage rooms and vessels:** Recommended storage temperature 10 °C to 30 °C.  
Store in a well ventilated place.  
Store locked up.  
Rotate stock and check regularly for damaged items.
- Further information on storage conditions:**
- 7.3 Specific end use(s):**  
**Recommendations:** Use only for Non Destructive Testing (NDT) applications.  
See product data sheet for further information.
- Industrial sector specific solutions:**

## 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>
Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics	Supplier's recommendation	150	1200		

Data obtained from supplier's SDS

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

# SAFETY DATA SHEET

**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) – Hydrocarbons, C9-C10, n-alkanes, isoalkanes, <2% aromatics.**

End User	Exposure Route	Exposure Time	Effects	DNEL
Worker	Inhalation	Long term	Systemic	1500 mg/m <sup>3</sup>
Worker	Dermal (skin)	Long term	Systemic	300 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 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)

**Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics and Hydrocarbons C12-C15 n-alkanes, isoalkanes, cyclic, < 2% aromatics:**

No data available: testing technically not feasible.

## 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 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.

# SAFETY DATA SHEET

**Skin protection – other:**

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 A2P3 (EN 141).

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:

<b>Appearance:</b>	Mobile red liquid.
<b>Odour:</b>	Mild hydrocarbon.
<b>Odour threshold:</b>	No data available.
<b>pH:</b>	Neutral.
<b>Melting point/freezing point:</b>	< -25 °C
<b>Initial boiling point and boiling range:</b>	> 100 °C.
<b>Flash point (PMCC):</b>	64 °C
<b>Evaporation rate (BuAC = 100):</b>	< 0.1
<b>Flammability (solid, gas) (Limits in air):</b>	No data available.
<b>Upper/lower flammability or explosive limits:</b>	1.0 – 6.0 % (Vol%)
<b>Vapour pressure:</b>	< 0.1 kPa @ 25 °C.
<b>Vapour density (Air = 1):</b>	> 1.
<b>Relative density:</b>	0.83 g/cm <sup>3</sup> .
<b>Solubility:</b>	Emulsifies.
<b>Partition coefficient: n-octanol/water:</b>	No data available.
<b>Auto-ignition temperature:</b>	> 200 °C
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity (ASTM D445):</b>	2.62 mm <sup>2</sup> /s @ 38 °C.
<b>Explosive properties:</b>	No data available.
<b>Oxidising properties:</b>	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.

# SAFETY DATA SHEET

10.4	Conditions to avoid:	Keep away from sources of ignition, hot surfaces and direct sun light.
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:	EUH066: Repeated exposure may cause skin cracking or dryness.
Serious eye damage/irritation:	H318: Causes serious eye damage.
Respiratory sensitisation:	Non sensitizing. Based on the available data the classification criteria are not met.
Skin sensitisation:	Non sensitizing. Based on the available data the classification criteria are not met.
Germ cell mutagenicity:	Based on the available data, the classification criteria are not met.
Carcinogenicity:	Based on the available data, the classification criteria are not met.
Reproductive toxicity:	Based on the available data, the classification criteria are not met.
STOT single exposure:	Based on the available data, the classification criteria are not met.
STOT repeated exposure:	Based on the available data, the classification criteria are not met.
Aspiration hazard:	Asp. Tox. 1 - H304: May be fatal if swallowed and enters airways.
<b>Information on likely Routes of Exposure and Potential Health Effects:</b>	
Inhalation:	May cause irritation to the respiratory system. Contains organic solvents which in case of overexposure may depress the central nervous system causing dizziness and intoxication.
Ingestion:	May be fatal if swallowed and enters airways. Small amounts of product aspirated into the respiratory system during ingestion or from vomiting may cause bronchopneumonia or pulmonary edema. Ingestion may cause irritation of the mouth, throat and digestive tract.
Eye contact:	H318: Causes serious eye damage.
Skin contact:	May be harmful if absorbed through skin. May cause skin irritation. EUH066: Repeated exposure may cause skin cracking or dryness.



# SAFETY DATA SHEET

**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 (OECD 402)
Acute Toxicity – inhalation	LC50 (rat)	4951 mg/l (vapours) 4h (OECD403)

## Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics

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

## Distillates (petroleum), hydrotreated light naphthenic

Acute Toxicity – oral	LD50 (rat)	> 5000 mg/kg
Acute Toxicity – dermal	LD50 (rabbit)	> 2000 mg/kg
Acute Toxicity – inhalation	LC50 (rabbit)	2.18 mg/l/4h

## Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether

Acute Toxicity – oral	LD50 (rat)	> 500 - < 2000 mg/kg
Acute Toxicity – dermal	LD50 (rat)	> 5000 mg/kg

**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
Aquatic Invertebrates				No data available.
Aquatic Plants				No data available
Microorganisms				No data available

## Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics

Fish	Onchorhynchus mykiss	LL50	96 hours	> 10 - < 30 mg/l
Aquatic Invertebrates	Daphnia magna	EL50	48 hours	> 22 - < 46 mg/l
Aquatic Plants	Algae	EL50	72 hours	> 1000 mg/l

## Distillates (petroleum), hydrotreated light naphthenic

Fish	Onchorhynchus mykiss	LC50	96 hours	> 5000 mg/l
Aquatic Invertebrates	Daphnia magna	EC50	48 hours	> 1000 mg/l
Aquatic Plants	Algae	LC50	96 hours	> 1000 mg/l

## Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether

Fish	Brachydanio rerio	LC50	96 hours	> 10 - 100 mg/l
Aquatic Invertebrates	Daphnia magna	EC50	48 hours	> 1 - 10 mg/l
Aquatic Plants	Scenedesmus subspicatus	EC50	72 hours	> 10 - 100 mg/l

### 12.2 Persistence and degradability:

Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclic, < 2% aromatics, Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics and Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether expected to be readily biodegradable. Distillates (petroleum), hydrotreated light naphthenic is not readily biodegradable.

# SAFETY DATA SHEET

12.3	<b>Bioaccumulative potential:</b>	Hydrocarbons, C12-C15, n-alkanes, isoalkanes, cyclic, < 2% aromatics, Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclic, < 2% aromatics and Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether are not expected to accumulate in organisms.
	<b>Partition coefficient: n-octanol/water (log Kow):</b>	Distillates (petroleum), hydrotreated light naphthenic Log Pow = 3.9 – 6
12.4	<b>Bioconcentration factor (BCF):</b>	No data available.
	<b>Mobility in soil:</b>	This product is insoluble in water.
12.5	<b>Results of PBT and vPvB assessment:</b>	This mixture does not contain any substances that are assessed to be a 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 residual product. Do NOT remove labels.
	<b>Waste codes/waste designations according to LoW:</b>	Waste code not assigned.

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: -

# SAFETY DATA SHEET

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.

## 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 EC-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):** WGK 2 – Hazard to waters.  
**TechnischeAnleitungLuft (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   |

# SAFETY DATA SHEET

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](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.
- 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
Asp. Tox. 1 H304	Calculation
Eye Dam. 1 H318	Calculation
EUH066	Calculation

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

H226: Flammable liquid and vapour.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H318: Causes serious eye damage.  
H336: May cause drowsiness or dizziness.  
H350: May cause cancer.  
H412: Harmful to aquatic life with long lasting effects.  
EUH066: Repeated exposure may cause skin dryness or cracking.

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

Acute Tox. 4: Acute Toxicity  
Aquatic Chronic 3: Hazardous to the aquatic environment  
Asp. Tox. 1: Aspiration hazard  
Carc. 1B: Carcinogenicity  
Eye Dam. 1: Serious eye damage/eye irritation  
Flam. Liq. 3: Flammable liquid  
STOT SE3: Specific target organ toxicity - single exposure

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

P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338: IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310: Immediately call a POISON CENTRE or doctor.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor.  
P331: Do NOT induce vomiting.  
P405: Store locked up.  
P501: Dispose of contents/container to hazardous waste or special collection point.

# SAFETY DATA SHEET

- (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.

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