# SAFETY DATA SHEET



MAGNAFLUX

Version 17.2 replaces Version 17.1
Revision date: 22.08.2018
According to (EU) No. 2015/830

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**1.1 Product identifier:** **SPOTCHECK® SKC-S**

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

**Relevant identified uses:** Solvent cleaner used in penetrant 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 responsible for SDS:** support.eu@magnaflux.com

**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:**
Flam. Liq. 2 H225

**Health Hazard:**
Skin Irrit. 2 H315
STOT SE 3 H336
Asp. Tox. 1 H304

**Environmental Hazard:**
Aquatic Chronic 2 H411

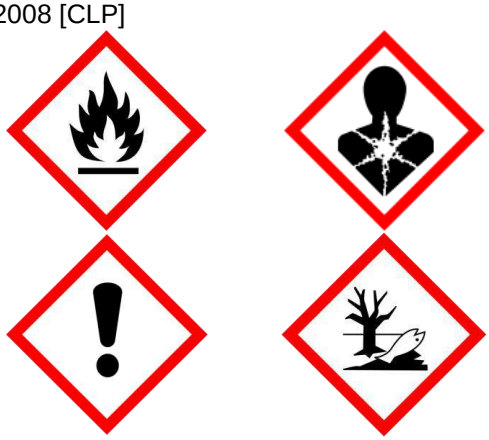
**Additional information** No other information.

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):** | H225: Highly flammable liquid and vapour<br>H304: May be fatal if swallowed and enters airways<br>H315: Causes skin irritation<br>H336: May cause drowsiness or dizziness<br>H411: Toxic to aquatic life with long lasting effects |
| **Precautionary Statement(s):** | P243: Take precautionary measures against static discharge<br>P273: Avoid release to the environment<br>P280: Wear protective gloves/protective clothing/eye protection/face protection<br>P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting<br>P302+352: IF ON SKIN: Wash with soap and water<br>P403+235: Store in a well ventilated place. Keep cool |
| **Supplementary Precautionary Statement(s):** | P261: Avoid breathing fume/gas/mist/vapours/spray.<br>P264: Wash thoroughly after handling.<br>P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.<br>P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>P362+P364: Take off contaminated clothing and wash it before reuse.<br>P501: Dispose of contents/container to hazardous waste or special collection point. |
| **Supplementary Hazard Information (EU)** | None |
| **Hazard Determining Component(s)** | Hydrocarbons, C7 – C9, isoalkanes |

**2.3 Other hazards:**

**Physical/Chemical Hazards:** Material can accumulate static charges which may cause an ignition. Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and / or explode if ignited.

**Health Hazards:** Repeated exposure may cause skin dryness or cracking. Irritating to skin. May be irritating to the eyes, nose, throat and lungs. May cause central nervous system depression.

**Environmental Hazards:** No additional hazards. Material does not meet the criteria for PBT or vPvB in accordance with REACH Annex XIII.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

| Name | Classification according to REGULATION (EC) No 1272/2008 | Other information |
|---|---|---|
| Hydrocarbons, C7- C9, isoalkanes<br><br>EC No 921-728-3<br>REACH: 01-2119471305-42 | Flam. Liq 2: H225<br>Skin Irrit. 2: H315<br>STOT SE3: H336<br>Asp. Tox. 1: H304<br>Aquatic Chronic 2: H411 | No other information |

*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 prompt medical attention if discomfort persists.

**Following skin contact:** Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if irritation persists.

**Following eye contact:** Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Seek medical attention if irritation persists.

**Following ingestion:** Rinse mouth with water. 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. 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:**

Prolonged skin contact may cause redness and irritation.
In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

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

None known.

## 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. Keep up-wind to avoid fumes. If possible keep unaffected containers cool with water spray. Avoid spraying water directly onto storage containers due to danger of boil over.

**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.

**For emergency responders:** Remove ignition sources. Avoid breathing vapours, mist or gas. 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.

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

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

**For containment:** Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite). Place in a UN approved container for disposal.
Large spills should be pumped (using an earthed explosion proof pump) into UN approved 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.

## 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. Risk of vapour concentration in low areas.

**Measures to prevent fire:** Contents are highly flammable and volatile. Keep away from sources of ignition.

**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 a cool dry area away from heat and sources of ignition.

**Packaging materials:** Store in original container. Keep containers tightly closed when not in use.

**Requirements for storage rooms and vessels:** Recommended storage temperature 10 ºC to 30 ºC. Store locked up. 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$^3$ | ppm | mg /m$^3$ |
| Hydrocarbons, C7 – C9, isoalkanes | UK | 241 | 1200 | | |
| Data obtained from GESTIS International Limit Values, EH40, 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.

**Derived No Effect Level (DNEL)**

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|---|---|---|---|---|
| Worker | Inhalation | Long term | Systemic | 2035 mg/m$^3$ |
| Worker | Dermal | Long term | Systemic | 773 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)**

| | |
|---|---|
| Water - Fresh Water | No data available: testing technically not feasible |
| Water - Marine Water | No data available: testing technically not feasible |
| Water - Intermittent release | No data available: testing technically not feasible |
| Sediment - Fresh water | No data available: testing technically not feasible |
| Sediment - Marine water | No data available: testing technically not feasible |
| Soil | No data available: testing technically not feasible |
| Sewage Treatment plant | 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

**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 **isoparaffins**, if hand exposure is unavoidable. Protective gloves made of **nitrile rubber** 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.
Consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should be observed.

**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:** In case of insufficient ventilation, wear suitable respiratory equipment. Filter type A. (EN 136, 140, 405, 149, 143)
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:** | Mobile clear liquid. |
| **Odour:** | Mild hydrocarbon. |
| **Odour threshold:** | No data available. |
| **pH:** | Neutral. |
| **Melting point/freezing point:** | No data available. |
| **Initial boiling point and boiling range:** | 113 – 143 °C. |
| **Flash point (PMCC):** | 7 °C. |
| **Evaporation rate (BuAc = 100):** | 155. |
| **Flammability (solid, gas) (Limits in air):** | No data available. |
| **Upper/lower flammability or explosive limits:** | 0.7 – 6.0% (Vol%) |
| **Vapour pressure:** | 1.627 kPa @ 20 °C. |
| **Vapour density (Air = 1):** | > 1. |
| **Relative density:** | 0.72 g/cm$^3$. |
| **Solubility:** | Insoluble. |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto-ignition temperature:** | > 200 °C. |
| **Decomposition temperature:** | No data available. |
| **Viscosity (ASTM D445):** | 0.86 mm$^2$/s @ 25 °C. |
| **Explosive properties:** | Under normal conditions no danger of explosion. |
| **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 specific reactivity hazards associated with this product. |
| **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 and direct sun light. |
| **10.5** | **Incompatible materials:** | Strong oxidising agents. |
| **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. |
| **Serious eye damage/irritation:** | Based on the available data, the classification criteria are not met. |
| **Respiratory sensitisation:** | Data lacking. |
| **Skin sensitisation:** | 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. |
| **Carcinogencity:** | Data lacking. |
| **Reproductive toxicity:** | Based on the available data, the classification criteria are not met. |
| **STOT single exposure:** | STOT Single Exp. 3 H336: May cause drowsiness or dizziness.<br>Affected organs: central nervous system<br>Route of exposure: inhalation |
| **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. |

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

| | |
|---|---|
| **Inhalation:** | Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. |
| **Ingestion:** | Harmful: May cause lung damage 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 bronochopneumonia or pulmonary edema. |
| **Eye contact:** | May cause redness and pain. |
| **Skin contact:** | Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de-fatting effect on the skin. |

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

| | | |
|---|---|---|
| Acute Toxicity – oral | LD50 (rat) | > 5000 mg/kg |
| Acute Toxicity – dermal | LD50 (rabbit) | > 2000 mg/kg |
| Acute Toxicity – inhalation | LC50 (rat) | 21 mg/l (4 h; vapour) |

**Other Information:** No other information.

## SECTION 12 ECOLOGICAL INFORMATION

**Based on data for component materials**

**12.1 Toxicity:**

| | | | | |
|---|---|---|---|---|
| Fish | Oncorhynchus mykiss | LL50 | 96h | 18.4 mg/l |
| Aquatic Invertebrates | Daphnia magna | EL50 | 48h | 2.4 mg/l |
| Aquatic Plants | Pseudokirchneriella subcapitata | EL50 | 72h | 29 mg/l |

**12.2 Persistence and degradability:** Biodegradable.

**12.3 Bioaccumulative potential:** No data available.

**Partition coefficient: n-octanol/water (log Kow):** No data available.

**Bioconcentration factor (BCF):** No data available.

**12.4 Mobility in soil:** The product is immiscible with water and will spread on the water surface. Product is highly volatile - will partition rapidly to air.

**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 residue and can be dangerous. Do NOT remove labels. Keep away from sources of ignition.

**Waste codes/waste designations according to LoW:** None 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).

**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 accordance with national legislation.

**Sewage disposal – relevant information:** Do not empty down the drain.

**Other disposal recommendations:** Use a licensed waste contractor

## SECTION 14 TRANSPORT INFORMATION

| | | | |
|---|---|---|---|
| **14.1** | **UN number:** | ADR/RID: | UN3295 |
| | | IMDG: | UN3295 |
| | | IATA: | UN3295 |
| **14.2** | **UN proper shipping name:** | ADR/RID: | HYDROCARBONS, LIQUID, N.O.S (HYDROCARBONS, C7-C9 ISOALKANES) |
| | | IMDG: | HYDROCARBONS, LIQUID, N.O.S (HYDROCARBONS, C7-C9 ISOALKANES) |
| | | IATA: | HYDROCARBONS, LIQUID, N.O.S (HYDROCARBONS, C7-C9 ISOALKANES) |
| **14.3** | **Transport hazard class(es):** | ADR/RID: | 3 |
| | | IMDG: | 3 |
| | | IATA: | 3 |
| **14.4** | **Packing group:** | ADR/RID: | II |
| | | IMDG: | II |
| | | IATA: | II |
| **14.5** | **Environmental hazards:** | ADR/RID: | Yes |
| | | IMDG: | Marine Pollutant: Yes |
| | | IATA: | Yes |

**14.6** **Special precautions for user:**
**Proper Shipping Name Suffix:** Special Provision 640D
**Label(s) / Mark(s):** 3, EHS
**Classification Code:** F1
**Hazard ID No (ADR/RID):** 33
**Tunnel Restriction Code (ADR):** D/E
**EMS Number (IMDG):** F-E, S-D
**Hazchem EAC:** 3YE

**14.7** **Transport in bulk according to Annex II of Marpol 73/78 and the IBC code:**
**Substance Name:** ALKANES (C6-C9)
**Ship type required:** 2
**Pollution category:** X

## 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):**

| | |
|---|---|
| **Wassergefahrdungklasse (water hazard class):** | WGK 2 - Hazard to waters. |
| **TechnischeAnleitungLuft (TA-Luft):** | Chapter 5.2.5 Organic Substances, except dusts |

**15.2** **Chemical safety assessment:**
No data available.

## SECTION 16 OTHER INFORMATION

**(i) Indication of changes:**

Version 17.2 updated in Section 1.3.

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.
- 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):**

Not applicable – this product is regulated as a substance.

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

H225: Highly flammable liquid and vapour
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H336: May cause drowsiness or dizziness
H411: Toxic to aquatic life with long lasting effects

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

Aquatic Chronic 2: Hazardous to the aquatic environment
Asp. Tox. 1: Aspiration hazard
Flam. Liq. 2: Flammable liquid
Skin Irrit. 2: Skin corrosion/irritation
STOT SE 3: Specific target organ toxicity - single exposure

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

P243: Take precautionary measures against static discharge
P273: Avoid release to the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+352: IF ON SKIN: Wash with soap and water
P403+235: Store in a well ventilated place. Keep cool
P261: Avoid breathing fume/gas/mist/vapours/spray.
P264: Wash thoroughly after handling.
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P362+P364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents/container to hazardous waste or special 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.

| | | |
|---|---|---|
| **Revision summary:** | **Revision Comments** | 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 support.eu@magnaflux.com. |
| | **Revision Date** | 22.08.2018 |
| | **Version** | 17.2 |

# SKC-S

## Solvent Cleaner/Remover

SPOTCHECK® SKC-S is a solvent cleaner/remover for pre-cleaning before testing and for removing excess surface penetrant from an inspection area before applying developer.

Noted for its compatibility with special alloys, such as stainless steel, aluminum, magnesium and titanium, this non-halogenated solvent remover can be used on a wide range of substrates to remove oils, greases and other contaminants, and leaves minimal residue when it evaporates.

### BENEFITS

**Maximise range of inspections**

- Inspect a wide range of components
- Conforms to AMS 2644 Class 2, ASME BPVC and all major aerospace requirements

**Application versatility**

- Use a single cleaner throughout the entire penetrant testing process
- Comes in both bulk and aerosol forms for convenience

**Minimise risk of missing a flaw**

- Inspect reliably by cleaning only the surface without flushing penetrant out of discontinuities
- Dries quickly without leaving residue to prevent false indications

### FEATURES

- Fast drying
- Leaves no residue
- Suitable for use at low temperatures
- Alloy compatibility
- Bulk or aerosol form
- Doesn't over clean
- Non-halogenated

### SPECIFICATION COMPLIANCE

- AMS2644
- ASME BPVC-V
- ASTM D129
- ASTM E165/E165M-18
- ASTM E1417/E1417M
- EN ISO 3452-1
- EN ISO 3452-2
- MIL-STD-2132D
- Pratt & Whitney PMC 4366

### APPLICATIONS

**Ideal for:**

- Non-destructive testing pre-cleaning
- Removing excess surface penetrant
- Post inspection cleaning
- When chlorinated solvents are undesirable or prohibited

### COMPOSITION

A blend of aliphatic petroleum distillates.

# SKC-S

## PRODUCT PROPERTIES

| | |
|---|---|
| **Form and colour** | Clear colourless liquid |
| **Flash point** | -40°C (aerosol)<br>7°C (bulk product) |
| **Density** | 0.72 g/cm$^3$ |
| **Viscosity at 25°C** | 0.86 mm$^2$/s |
| **Corrosion** | Meets AMS 2644 Class 2 |
| **Sulphur content** | < 300 ppm |
| **Chloride content** | < 300 ppm |
| **Fluoride content** | < 50 ppm |

Like all Magnaflux materials, SKC-S is closely controlled to ensure batch-to-batch consistency, optimum process control and inspection reliability.

## USER RECOMMENDATIONS

| | |
|---|---|
| **Storage temperature** | 10°C to 30°C |
| **Usage temperature** | -5°C to 50°C |
| **Water-washable penetrants** | AL-4B, SKL-WP2, ZL-15B, ZL-19, ZL-60C, ZL-60D, ZL-67B, ZL-56 |
| **Post-emulsifiable penetrants** | SKL-SP2, ZL-2C, ZL-27A, ZL-37 |

## INSTRUCTIONS FOR USE

**Pre or post cleaning:**
Spray the surfaces to be cleaned liberally with the cleaner, and either wipe off or allow to air dry.

Alternatively, soak a clean cloth with the cleaner and wipe the part clean. Allow the part to dry thoroughly before applying the penetrant.

**Penetrant removal:**
Wet a clean dry lint-free cloth with the cleaner and wipe the inspection area.

DO NOT spray or apply the remover directly to the inspection surface - this will impair sensitivity.

## PACKAGING AND PART NUMBERS


008A100
(x 10)


054C007
(x 4)


054C008

## HEALTH AND SAFETY

Review all relevant health and safety information before using this product. For complete health and safety information, refer to the Safety Data Sheets, which are available at **www.magnaflux.eu**.

# SAFETY DATA SHEET

Version 17.2 replaces Version 17.1
Revision date: 22.08.2018
According to (EU) No. 2015/830

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

**1.1 Product identifier:** **SPOTCHECK® SKC-S - aerosol**

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

**Relevant identified uses:** Solvent cleaner used in penetrant 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 responsible for SDS:** support.eu@magnaflux.com

**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:**
Aerosol 1 H222, H229

**Health Hazard:**
Skin Irrit. 2 H315
STOT SE 3 H336

**Environmental Hazard:**
Aquatic Chronic 2 H411

**Additional information** No other information.

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]

| | |
|---|---|
| **Signal Word:** | DANGER |
| **Hazard Statement(s):** | H222: Extremely flammable aerosol.<br>H229: Pressurised container: may burst if heated.<br>H315: Causes skin irritation<br>H336: May cause drowsiness or dizziness<br>H411: Toxic 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.<br>P211: Do not spray on an open flame or other ignition source.<br>P251 Do not pierce of burn even after use.<br>P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.<br>P261: Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P280: Wear protective gloves/protective clothing/eye protection/face protection.<br>P501: Dispose of contents/container to hazardous waste or special collection point. |
| **Supplementary Precautionary Statement(s):** | P271: Use only outdoors or in a well ventilated area.<br>P302+352: IF ON SKIN: Wash with soap and water<br>P264: Wash thoroughly after handling.<br>P362+P364: Take off contaminated clothing and wash it before reuse. |
| **Supplementary Hazard Information (EU)** | None |
| **Hazard Determining Component(s)** | Hydrocarbons, C7 – C9, isoalkanes |

**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, C7- C9, isoalkanes | | 921-728-3 | 01-2119471305-42 | 60 -100 | Flam. Liq 2: H225<br>Skin Irrit. 2: H315<br>STOT SE3: H336<br>Asp. Tox. 1: H304 (note1)<br>Aquatic Chronic 2: H411 | No other information |
| 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<br>Flam. Gas 1 H220 | (note3) |

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
3. 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 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 prompt medical attention if discomfort persists.

**Following skin contact:** Flush with water, use soap if available. Contaminated clothing should be washed before re-use. Seek medical attention if irritation persists.

**Following eye contact:** Flush eyes with large amounts of water for at least 15 minutes with eyelids held open. Seek medical attention if irritation persists.

**Following ingestion:** Unlikely route of exposure. Rinse mouth with water. 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. 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:**

Prolonged skin contact may cause redness and irritation.
In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Avoid vomiting and normal rinse of stomach because of risk of aspiration.
May cause discomfort to the eyes. Symptoms: redness and pain.

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

None known.

## 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.
Aerosols may explode in a fire.
Aerosol contents are extremely flammable.

**Hazardous combustion products:** 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. 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.

**For emergency responders:** Remove ignition sources. Avoid breathing vapours, mist or gas. 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.

**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 UN approved container for disposal.
Large spills should be pumped (using an earthed explosion proof pump) into UN approved 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.

## 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. Risk of vapour concentration in low areas. |
| **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. |
| **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 a cool dry area away from heat and sources of ignition. |
| **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 ºC. Recommended storage temperature 10 ºC to 30 ºC. |
| **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$^3$ | ppm | mg /m$^3$ |
| Hydrocarbons, C7 – C9, isoalkanes | UK | 241 | 1200 | | |
| Data obtained from GESTIS International Limit Values, EH40, 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.

**Derived No Effect Level (DNEL) -** Hydrocarbons, C7 – C9, isoalkanes

| End User | Exposure Route | Exposure Time | Effects | DNEL |
|---|---|---|---|---|
| Worker | Inhalation | Long term | Systemic | 2035 mg/m$^3$ |
| Worker | Dermal | Long term | Systemic | 773 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, C7 – C9, isoalkanes

| | |
|---|---|
| Water - Fresh Water | No data available: testing technically not feasible |
| Water - Marine Water | No data available: testing technically not feasible |
| Water - Intermittent release | No data available: testing technically not feasible |
| Sediment - Fresh water | No data available: testing technically not feasible |
| Sediment - Marine water | No data available: testing technically not feasible |
| Soil | No data available: testing technically not feasible |
| Sewage Treatment plant | 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

**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 **isoparaffins**, if hand exposure is unavoidable.
Protective gloves made of **nitrile rubber** 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.
Consult the glove manufacturer for exact breakthrough time. Glove manufacturer's directions for use should be observed.

**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:** | In case of insufficient ventilation, wear suitable respiratory equipment. Filter type A. (EN 136, 140, 405, 149, 143) 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:** | Aerosol containing mobile clear liquid. |
| **Odour:** | Mild hydrocarbon. |
| **Odour threshold:** | No data available. |
| **pH:** | Neutral. |
| **Melting point/freezing point:** | No data available. |
| **Initial boiling point and boiling range:** | 113 – 143 °C. |
| **Flash point (PMCC):** | -40 °C (aerosol propellant). |
| **Evaporation rate (BuAc = 100):** | 155. |
| **Flammability (solid, gas) (Limits in air):** | No data available. |
| **Upper/lower flammability or explosive limits:** | 0.7 – 6.0% (Vol%) |
| **Vapour pressure:** | 1.627 kPa @ 20 °C. |
| **Vapour density (Air = 1):** | > 1. |
| **Relative density:** | 0.72 g/cm$^3$. |
| **Solubility:** | Insoluble. |
| **Partition coefficient: n-octanol/water:** | No data available. |
| **Auto-ignition temperature:** | > 200 °C. |
| **Decomposition temperature:** | No data available. |
| **Viscosity (ASTM D445):** | 0.86 mm$^2$/s @ 25 °C. |
| **Explosive properties:** | Under normal conditions no danger of explosion. |
| **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 specific reactivity hazards associated with this product. |
| **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 and direct sun light. |
| **10.5** | **Incompatible materials:** | Strong oxidising agents. |
| **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.

**Serious eye damage/irritation:** Based on the available data, the classification criteria are not met.

**Respiratory sensitisation:** Data lacking.

**Skin sensitisation:** 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.

**Carcinogencity:** Data lacking.

**Reproductive toxicity:** Based on the available data, the classification criteria are not met.

**STOT single exposure:** STOT Single Exp. 3 H336: May cause drowsiness or dizziness.
Affected organs: central nervous system
Route of exposure: inhalation

**STOT repeated exposure:** Based on the available data, the classification criteria are not met.

**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:** Vapour concentrations above the recommended exposure levels are irritating to the eyes and respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects.

**Ingestion:** Not a likely route of exposure. However, harmful: May cause lung damage 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:** May cause redness and pain.

**Skin contact:** Frequent or prolonged contact with the product may produce irritation and/or skin dryness and cracking. Product will have a de-fatting effect on the skin.

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

**Hydrocarbons, C7 – C9, isoalkanes**

| | | |
|---|---|---|
| Acute Toxicity – oral | LD50 (rat) | > 5000 mg/kg |
| Acute Toxicity – dermal | LD50 (rabbit) | > 2000 mg/kg |
| Acute Toxicity – inhalation | LC50 (rat) | 21 mg/l (4 h; vapour) |

**Other Information:** No other information.

## SECTION 12 ECOLOGICAL INFORMATION

**Based on data for component materials**

**12.1 Toxicity:**

**Hydrocarbons, C7 – C9, isoalkanes**

| | | | | |
|---|---|---|---|---|
| Fish | Oncorhynchus mykiss | LL50 | 96h | 18.4 mg/l |
| Aquatic Invertebrates | Daphnia magna | EL50 | 48h | 2.4 mg/l |
| Aquatic Plants | Pseudokirchneriella subcapitata | EL50 | 72h | 29 mg/l |

**12.2 Persistence and degradability:** Hydrocarbons, C7 – C9, isoalkanes - Biodegradable.

**12.3 Bioaccumulative potential:** No data available.

**Partition coefficient: n-octanol/water (log Kow):** No data available.

**Bioconcentration factor (BCF):** No data available.

**12.4 Mobility in soil:** The product is immiscible with water and will spread on the water surface. Product is highly volatile - will partition rapidly to air.

**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 accordance with national legislation

**Sewage disposal – relevant information:** Do not empty down the drain.

**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: | Yes |
| | | IMDG: | Marine Pollutant: Yes |
| | | IATA: | Yes |

**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 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.**
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 hazard class):** | WGK 2 - Hazard to waters. |
| **TechnischeAnleitungLuft (TA-Luft):** | Class 5.2.5 Organic Substances, except dusts |

**15.2 Chemical safety assessment:**
No data available

## SECTION 16 OTHER INFORMATION

**(i) Indication of changes:**
Version 17.2 updated in Section 1.3.

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.
- 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 |
|---|---|
| Aerosol. 1: H222, H229 | Test Method |
| Skin Irrit. 2: H315 | Calculation Method |
| STOT SE3: H336: | Calculation Method |
| Aquatic Chronic 2: H411 | Calculation Method |

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

H220: Extremely flammable gas.
H225: Highly flammable liquid and vapour
H222: Extremely flammable aerosol.
H229: Pressurised container: may explode if heated.
H280: Contains gas under pressure; may burst if heated.
H304: May be fatal if swallowed and enters airways
H315: Causes skin irritation
H336: May cause drowsiness or dizziness
H411: Toxic to aquatic life with long lasting effects

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

Aerosol 1: Aerosol
Aquatic Chronic 2: Hazardous to the aquatic environment
Asp. Tox. 1: Aspiration hazard
Flam. Gas 1: Flammable Gas
Flam. Liq. 2: Flammable liquid
Press. Gas: Gases under pressure
Skin Irrit. 2: Skin corrosion/irritation
STOT SE 3: Specific target organ toxicity - single exposure

**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.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P271: Use only outdoors or in a well ventilated area.
P410 + P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P280: Wear protective gloves/protective clothing/eye protection/face protection
P302+352: IF ON SKIN: Wash with soap and water
P362+P364: Take off contaminated clothing and wash it before reuse.
P264: Wash thoroughly after handling.
P501: Dispose of contents/container to hazardous waste or special 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.

# SAFETY DATA SHEET

**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.

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| **Revision summary:** | **Revision Comments** | 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 support.eu@magnaflux.com. |
| | **Revision Date** | 22.08.2018 |
| | **Version** | 17.2 |