

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)**
- **Part number: DRE-GA09000374DI**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Reference material for laboratory use only
- **Manufacturer/Supplier:**
LGC Limited Tel : +44 (0) 20 8943 7000
Queens Road Fax : +44 (0) 20 8943 2767
Teddington eMail : gb@lgcstandards.com
Middlesex TW11 0LY Web : www.lgcstandards.com
UNITED KINGDOM
- **Further information obtainable from:**
Product safety department
eMail : sds-request@lgcgroup.com
- **1.4 Emergency telephone number:** +44 (0) 20 8943 7000 (Monday - Friday : 8am - 5pm)

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**
Methylene chloride
- **Hazard statements**
H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements**
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P201 Obtain special instructions before use.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Also contains substances at levels not considered to be hazardous.

· Dangerous components:

| | | |
|--|--|---------|
| CAS: 75-09-2 EINECS: 200-838-9 RTECS: PA8050000 | Methylene chloride ☠ Carc. 2, H351 | > 98% |
| CAS: 86-74-8 EINECS: 201-696-0 RTECS: FE3150000 | Carbazole ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 | < 0.25% |
| CAS: 608-27-5 EINECS: 210-157-9 RTECS: CX9862625 | 2,3-Dichloroaniline ☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ STOT RE 2, H373; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 | < 0.25% |

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse mouth. Do not induce vomiting.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2 Environmental precautions:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 3)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 2)

Dispose of contaminated material as waste according to item 13.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:** Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Please refer to the manufacturer's certificate for specific storage and transport temperature conditions.

Store only in the original receptacle.

Keep container in a well-ventilated place. Keep away from sources of ignition and heat.

· **Information about storage in one common storage facility:** Store away from foodstuffs.

· **Further information about storage conditions:** Keep container tightly sealed.

· **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

75-09-2 Methylene chloride

| | |
|-----|--|
| WEL | Short-term value: 1060 mg/m ³ , 300 ppm |
| | Long-term value: 350 mg/m ³ , 100 ppm |
| | BMGV, Sk |

· **Ingredients with biological limit values:**

75-09-2 Methylene chloride

| | |
|------|----------------------------|
| BMGV | 30 ppm |
| | Medium: end-tidal breath |
| | Sampling time: post shift |
| | Parameter: carbon monoxide |

· **Additional information:** Lists used were valid at the time of SDS preparation.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· **Respiratory protection:** Not required.

· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 3)

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374



Protective gloves

· **Material of gloves** Fluorocarbon rubber (Viton)

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

| | |
|-------------------------|-----------------|
| Form: | Liquid |
| Colour: | Colourless |
| Odour: | Chlorine-like |
| Odour threshold: | Not determined. |

· **pH-value:** Not determined.

· **Change in condition**

| | |
|-------------------------------------|----------|
| Melting point/Melting range: | -95.1 °C |
| Boiling point/Boiling range: | 40 °C |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not determined.

· **Ignition temperature:** 605 °C

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

| | |
|---------------|----------|
| Lower: | 13 Vol % |
| Upper: | 22 Vol % |

· **Vapour pressure at 20 °C:** 453 hPa

· **Density at 20 °C:** 1.32564 g/cm³

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

water at 20 °C: 20 g/l

· **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 5)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 4)

- **Viscosity:**
 - Dynamic:* Not determined.
 - Kinematic:* Not determined.
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** Stable under normal conditions.
- **10.2 Chemical stability** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
Formation of toxic gases is possible during heating or in case of fire.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Heat.
- **10.5 Incompatible materials:** Strong oxidizing agents.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

75-09-2 Methylene chloride

| | | |
|------------|----------|----------------------|
| Oral | LD50 | 1600 mg/kg (rat) |
| Dermal | LD50 | >2000 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 88 mg/l (rat) |

86-74-8 Carbazole

| | | |
|------|------|--------------------|
| Oral | LD50 | >400 mg/kg (mouse) |
|------|------|--------------------|

608-27-5 2,3-Dichloroaniline

| | | |
|------------|----------|--------------------|
| Inhalative | LC50/4 h | > 8.047 mg/l (rat) |
|------------|----------|--------------------|

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
Carc. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

GB

(Contd. on page 6)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 5)

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

75-09-2 Methylene chloride

EC50/48 h 200 mg/l (daphnia)

LC50/96 h 200 mg/l (fish)

IC50/72 h >550 mg/l (Algae)

86-74-8 Carbazole

EC50/48 h 2.3-4.9 mg/l (daphnia)

LC50/96 h 0.93 mg/l (fish)

· 12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

· 12.4 Mobility in soil No further relevant information available.

· Ecotoxicological effects:

· Remark: Harmful to fish

· Additional ecological information:

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

Waste disposal key numbers from EWC have to be assigned depending on origin and processing.

· Uncleaned packaging:

· Recommendation: Dispose of in accordance with national regulations.

SECTION 14: Transport information

· 14.1 UN-Number

· ADR, IMDG, IATA

UN1593

· ADR

1593 DICHLOROMETHANE mixture

· IMDG, IATA

DICHLOROMETHANE mixture

(Contd. on page 7)

GB

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 6)

· **14.3 Transport hazard class(es)**

· ADR, IMDG, IATA



· **Class** 6.1 Toxic substances.
· **Label** 6.1

· **14.4 Packing group**

· ADR, IMDG, IATA III

· **14.5 Environmental hazards:** Not applicable.

· **14.6 Special precautions for user**

Warning: Toxic substances.
· **Danger code (Kemler):** 60
· **EMS Number:** F-A,S-A
· **Segregation groups** Liquid halogenated hydrocarbons
· **Stowage Category** A

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **ADR**
· **Limited quantities (LQ)** 5L
· **Transport category** 2
· **Tunnel restriction code** E
· **UN "Model Regulation":** UN 1593 DICHLOROMETHANE MIXTURE, 6.1, III

SECTION 15: Regulatory information

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

· **Philippines Inventory of Chemicals and Chemical Substances**

All ingredients are listed.

· **Australian Inventory of Chemical Substances**

All ingredients are listed.

· **Standard for the Uniform Scheduling of Medicines and Poisons**

75-09-2 Methylene chloride

S5

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 59

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied,

(Contd. on page 8)



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 16.01.2017

Version number 1

Revision: 16.01.2017

Product name: Method 625 Additions Mix, 7 components, 2000 µg/mL in Dichloromethane (RM, ISO GUIDE 34)

(Contd. from page 7)

and should be used only as a guide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Carc. 2: Carcinogenicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· **Sources**

Tables 3.1 and 3.2 from Annex 6 of EC 1272/2008, EC 1907/2006, EH40/2005 as amended 2011, Registry of Toxic Effects of Chemical Substances (RTECS), The Dictionary of Substances and their Effects, 1st Edition, IUCLID.

· **Data compared to the previous version altered.** All sections have been updated.