

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

**\*1.1 Product identifier**

**\*Trade name:** SimpleCheck Density Bromobenzene 1.495 @20°C

**\*Article number:** 30466987

**\*CAS Number:**  
108-86-1

**\*EC number:**  
203-623-8

**\*Index number:**  
602-060-00-9

**\*Registration number**

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

**\*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** Laboratory Chemicals

**\*1.3 Details of the supplier of the safety data sheet**

**\*Manufacturer/Supplier:** See Below

**\*Manufacturer:**

Reagecon Diagnostics Ltd.  
Shannon Free Zone,  
Shannon,  
Co. Clare,  
Ireland.

Tel +353 61 472622  
Fax +353 61 472642

**\*Supplier:**

Mettler-Toledo GmbH  
Im Langacher 44  
CH-8606 Greifensee  
Switzerland

Tel: +41 22 567 53 22  
Fax: +41 22 567 53 23

Email: msganachem@.mt.com

**\*Further information obtainable by contacting:** sds@reagecon.ie

**\*1.4 Emergency telephone number:**

If availability of such services is limited for any reasons, such as hours of operation, or if there are limits on specific types of information provided, this shall be clearly stated.

EMERGENCY CONTACT NUMBER: 00-353-87-8395527 (Monday - Friday 8.30 - 17.00 GMT)

**SECTION 2: Hazards identification**

**\*2.1 Classification of the substance or mixture**

**\*Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3      H226 Flammable liquid and vapour.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

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GHS07

Skin Irrit. 2 H315 Causes skin irritation.

**\*2.2 Label elements**

**\*Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**\*Hazard pictograms**



GHS02 GHS07 GHS09

**\*Signal word Warning**

**\*Hazard statements**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

**\*Precautionary statements**

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

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**\*2.3 Other hazards**

**\*Results of PBT and vPvB assessment**

\*PBT: Not applicable.

\*vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients**

**\*3.1 Chemical characterisation: Substances**

**\*CAS No. Description**

108-86-1 bromobenzene

**\*Identification number(s)**

\*EC number: 203-623-8

\*Index number: 602-060-00-9

**SECTION 4: First aid measures**

**\*4.1 Description of first aid measures**

\*After inhalation: In case of unconsciousness place patient stably in side position for transportation.

**\*After skin contact:**

Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

**\*After eye contact:**

Promptly wash eyes with plenty of water for up to 15 minutes. Open eyes wide apart and rinse well to remove any contact lenses. Do not remove contact lenses by hand. Continue to rinse. Get medical attention if symptoms persist.

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**\*After swallowing:** *If symptoms persist consult doctor.*

**\*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.*

**\*For safety reasons unsuitable extinguishing agents:** *Water with full jet*

**\*5.2 Special hazards arising from the substance or mixture** *No further relevant information available.*

**\*5.3 Advice for firefighters**

**\*Protective equipment:**

*Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Avoid run off to waterways and sewers*

**SECTION 6: Accidental release measures**

**\*6.1 Personal precautions, protective equipment and emergency procedures**

*Wear protective equipment as described in Section 8 below. Keep unprotected persons away.*

**\*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).*

**\*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**

*Keep receptacles tightly sealed.*

*No special precautions are necessary if used correctly.*

**\*Information about fire - and explosion protection:**

*Keep ignition sources away - Do not smoke.*

*Protect against electrostatic charges.*

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

**\*Storage:**

**\*Requirements to be met by storerooms and receptacles:** *No special requirements.*

**\*Information about storage in one common storage facility:** *Not required.*

**\*Further information about storage conditions:** *Keep receptacle 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.*

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**\*8.1 Control parameters**

**\*Ingredients with limit values that require monitoring at the workplace:** Not required.

**\*Additional information:** The lists valid during the making were used as basis.

**\*8.2 Exposure controls**

**\*Personal protective equipment:**

**\*General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

**\*Respiratory protection:**

Where risk assessment shows air-purifying respirators are appropriate use a respirator with multi-purpose combination (US) or type ABEK (EN14387) respirator cartridges as back up to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**\*Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Always ensure that gloves are inspected before use.

Selection of protective gloves must include consideration of the penetration times along with rates of diffusion and degradation. The selected glove should comply with the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it.

**\*Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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**\*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:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

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

**\*General Information**

**\*Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Not determined.
<b>*Odour:</b>	Characteristic
<b>*Odour threshold:</b>	Not determined.

**\*pH-value:** Not determined.

**\*Change in condition**

**Melting point/freezing point:** -31 °C

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<b>Initial boiling point and boiling range:</b> 156 °C	
<b>*Flash point:</b>	51 °C
<b>*Flammability (solid, gas):</b>	Not applicable.
<b>*Ignition temperature:</b>	565 °C
<b>*Decomposition temperature:</b>	Not determined.
<b>*Auto-ignition temperature:</b>	Not determined.
<b>*Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>*Explosion limits:</b>	
<b>Lower:</b>	0.5 Vol %
<b>Upper:</b>	2.5 Vol %
<b>*Vapour pressure at 20 °C:</b>	4 hPa
<b>*Density at 20 °C:</b>	1.49 g/cm <sup>3</sup>
<b>*Relative density</b>	Not determined.
<b>*Vapour density</b>	Not determined.
<b>*Evaporation rate</b>	Not determined.
<b>*Solubility/ miscibility with water at 20 °C:</b>	0.4 g/l
<b>*Partition coefficient: n-octanol/water:</b>	Not determined.
<b>*Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Organic solvents:</b>	100.0 %
<b>*9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- \*10.1 **Reactivity** No further relevant information available.
- \*10.2 **Chemical stability**
- \***Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- \*10.3 **Possibility of hazardous reactions** No dangerous reactions known.
- \*10.4 **Conditions to avoid** No further relevant information available.
- \*10.5 **Incompatible materials:** No further relevant information available.
- \*10.6 **Hazardous decomposition products:** No dangerous decomposition products known.

### 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:**
**CAS: 108-86-1 bromobenzene**

Oral	LD50	2,699 mg/kg (rat)
Inhalative	LC50/4 h	20.41 mg/l (rat)

- \***Primary irritant effect:**
- \***Skin corrosion/irritation**  
Causes skin irritation.

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- \***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)**
- \***Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- \***Carcinogenicity** Based on available data, the classification criteria are not met.
- \***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.

**SECTION 12: Ecological information**

- \***12.1 Toxicity**
- \***Aquatic toxicity:** No further relevant information available.
- \***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:** Toxic for fish
- \***Additional ecological information:**
- \***General notes:**  
Water hazard class 3 (German Regulation) (Self-assessment): extremely 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.  
Also poisonous for fish and plankton in water bodies.  
Toxic for 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 together with household garbage. Do not allow product to reach sewage system.

\***European waste catalogue**

HP 3	Flammable
HP 4	Irritant - skin irritation and eye damage
HP 14	Ecotoxic

- \***Uncleaned packaging:**
- \***Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- \***14.1 UN-Number**
- \***ADR, IMDG, IATA** UN2514
- \***14.2 UN proper shipping name**
- \***ADR** 2514 BROMBENZEN
- \***IMDG, IATA** BROMOBENZENE

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**\*14.3 Transport hazard class(es)**

**\*ADR, IMDG**



**\*Class** 3 Flammable liquids.  
**\*Label** 3

**\*IATA**



**\*Class** 3 Flammable liquids.  
**\*Label** 3

**\*14.4 Packing group**

**\*ADR, IMDG, IATA** III

**\*14.5 Environmental hazards:**

**\*Marine pollutant:** Symbol (fish and tree)  
**\*Special marking (ADR):** Symbol (fish and tree)

**\*14.6 Special precautions for user**

Warning: Flammable liquids.  
**\*Danger code (Kemler):** 30  
**\*EMS Number:** 3-07  
**\*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** 3  
**\*Tunnel restriction code** D/E

**\*UN "Model Regulation":**

UN 2514 BROMOBENZENE, 3, III, ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**

**\*15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) EC 1907/2006.

A REACH registration number is not available for this substance as the substance or its uses are exempted from registration or the annual tonnage does not require a registration"

**\*Directive 2012/18/EU**

**\*Named dangerous substances - ANNEX I** Substance is not listed.

**\*Seveso category**

E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS

**\*Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

**\*Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

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

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

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**\*National regulations:**

Class	Share in %
NK	100.0

**\*Waterhazard class:** Water hazard class 3 (Self-assessment):extremely hazardous for water.

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

### SECTION 16: Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**\*Department issuing SDS:** Health and Safety

**\*Contact:** sds@reagecon.ie

**\*Abbreviations and acronyms:**

REACH (Registration, Evaluation, Authorisation and restriction of Chemicals)

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

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

Flam. Liq. 3: Flammable liquids – Category 3

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

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**\*NO**

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