

**EU SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No 2015/830

Iron R1 - Material number: 01 00028

**1. Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Name of product: Iron Reagent R1  
as part of the kits: 01 00028 XX XX XXXX  
(The positions X code different packages.)

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Reagent for in-vitro diagnostics in human samples  
For professional use only

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

Company name: DiaSystem Scandinavia AB  
Street/POB-No.: Datorgatan 3  
State/city/postal code: 561 33 Jönköping  
Sweden  
World Wide Web: <http://www.diasystem.se>  
Email: [info@diasystem.se](mailto:info@diasystem.se)  
Telephone: +46 (0) 36 12 62 20  
Telefax: +46 (0) 36 18 77 30  
Dept. responsible for information:  
DiaSystem, Telephone: +46 (0)36 126220

**1.4 Emergency telephone number**

Giftinformationscentralen, Telephone +46 112

**2. Hazards identification****2.1 Classification of the substance or mixture****Classification according to EC regulation 1272/2008 (CLP)**

Skin Irrit. 2; H315 Causes skin irritation. Eye Dam. 1;  
H318 Causes serious eye damage.

**2.2 Label elements****Labelling (CLP)**

Signal word: **Danger**  
Hazard statements: H315 Causes skin irritation.  
H318 Causes serious eye damage  
Precautionary statements: P264 Wash hands and face thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.

**Special labelling**

Text for labelling: Contains Acetic acid, Dodecan-1-ol, ethoxylated and Alcohols, C9-11-iso-, C10-rich, ethoxylated.

**2.3 Other hazards**

No risks worthy of mention  
Results of PBT and vPvB assessment:  
No data available

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**3. Composition/information on ingredients**

3.1 Substances: not applicable

**3.2 Mixtures**

Chemical characterization: Aqueous solution

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 200-469-3 CAS 60-32-2	Aminocaproic acid	< 10 %	Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335.
EC No. 200-580-7 CAS 64-19-7	Acetic acid	1 - 5 %	Flam. Liq. 3; H226. Skin Corr. 1A; H314.
EC No. 500-002-6 CAS 9002-92-0	Dodecan-1-ol, ethoxylated	1 - 5 %	Acute Tox. 4; H302. Eye Dam. 1; H318.
EC No. 616-607-4 CAS 78330-20-8	Alcohols, C9-11-iso-, C10-rich, ethoxylated	1 - 5 %	Eye Dam. 1; H318.
EC No. 200-543-5 CAS 62-56-6	Thiourea	< 1 %	Acute Tox. 4; H302. Carc. 2; H351. Repr. 2; H361d. Aquatic Chronic 2; H411.

Full text of H- and EUH-statements: see section 16

**4. First aid measures****4.1 Description of first aid measures**

In case of inhalation: First aider: Pay attention to self-protection! If medical advice is needed, have product container or label at hand. Take off immediately all contaminated clothing and wash it before reuse

Following skin contact: Move victim to fresh air. Seek medical treatment in case of troubles.

After eye contact: Take off contaminated clothing and wash it before reuse. Remove residues with water. In case of skin irritation, consult a physician.

After swallowing: Rinse mouth immediately and drink plenty of water. Immediately get medical attention. Never give anything by mouth to an unconscious person.

**4.2 Most important symptoms and effects, both acute and delayed**

Causes serious eye damage. Causes skin irritation.

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

Treat symptomatically.

**5. Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.

**5.2 Special hazards arising from the substance or mixture**

Fires in the immediate vicinity may cause the development of dangerous vapours. In case of fire may be liberated: Nitrogen oxides (NOx), sulphur oxides, carbon monoxide and carbon dioxide.

**5.3 Advice for firefighters**

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Hazchem-Code: -

Do not allow fire water to penetrate into surface or ground water.

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**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes, and clothing. Work place should be equipped with a shower and an eye rinsing apparatus. Wear appropriate protective equipment. In enclosed areas: Provide fresh air. Do not breathe vapours

**6.2 Environmental precautions**

Do not allow to penetrate into soil, waterbodies or drains.

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

Soak up with absorbent materials such as sand, siliceus earth, acid- or universal binder. Store in special closed containers and dispose of according to ordinance. Wash spill area with plenty of water. Final cleaning

**6.4 Reference to other sections**

Refer additionally to section 8 and 13.

**7. Handling and storage****7.1 Precautions for safe handling**

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe vapours. Avoid contact with skin and eyes. Keep all containers, equipment and working place clean. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Work place should be equipped with a shower and an eye rinsing apparatus.

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

Requirements for storerooms and containers:

Keep containers tightly closed and at a temperature between 2 °C and 8 °C. Protect against heat /sun rays. Do not freeze. Keep sterile

**7.3 Specific end use(s)**

No information available.

**8. Exposure controls / Personal protection equipment****8.1 Control parameters**

Occupational exposure limit values:

Ingredient	Designation	Type	Limit value
64-19-7	Acetic acid	Europe: IOELV: STEL	50 mg/m <sup>3</sup> ; 20 ppm
		Europe: IOELV: TWA	25 mg/m <sup>3</sup> ; 10 ppm
		Great Britain: MEL/OES-STEEL	50 mg/m <sup>3</sup> ; 20 ppm
		Great Britain: MEL/OES-TWA	25 mg/m <sup>3</sup> ; 10 ppm
		Ireland: 15 minutes	50 mg/m <sup>3</sup> ; 20 ppm
		Ireland: 8 hours	25 mg/m <sup>3</sup> ; 10 ppm

**8.2 Exposure controls**

Provide adequate ventilation, and local exhaust as needed.

**Personal protection equipment****Occupational exposure controls**

Respiratory protection:

Respiratory protection must be worn whenever the WEL levels have been exceeded. Use combination filter type A/P according to EN 14387.

Hand protection:

Protective gloves according to EN 374. Glove material: Nitrile rubber Breakthrough time: >480 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time

Eye protection:

Tightly sealed goggles according to EN 166.

Body protection:

Lab coat

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General protection and hygiene measures:

Work place should be equipped with a shower and an eye rinsing apparatus. Avoid contact with skin, eyes, and clothing. Take off immediately all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Do not breathe vapours. Wash hands before breaks and after work.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid
Colour:	Colour: clear, colourless
Odour:	like acetic acid
Odour threshold:	No data available
pH value:	at 25 °C: 4.5
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point/flash point range:	not combustible
Evaporation rate:	No data available
Flammability:	No data available
Explosion limits:	No data available
Vapour pressure:	No data available
Vapour density:	No data available
Density:	at 20 °C : 1.0149 g/mL
Water solubility:	completely miscible
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity, kinematic:	No data available
Explosive properties:	No data available
Oxidizing characteristics:	No data available

**9.2 Other information**

Additional information: No data available

**10. Stability and reactivity****10.1 Reactivity**

Refer to 10.3

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**

Protect from frost, heat and sunlight.

**10.5 Incompatible materials**

strong oxidizing agents, alkalis

**10.6 Hazardous decomposition products**

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition:

No data available

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**11. Toxicological information****11.1 Information on toxicological effects**

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such

Acute toxicity (oral): Based on available data, the classification criteria are not met

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

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

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

**Symptoms**

In case of inhalation: May cause respiratory irritation.  
The following symptoms may occur: Nausea, vomiting, diarrhoea, gastrointestinal complaints

**12. Ecological information****12.1 Toxicity**

Aquatic toxicity: Information about Thiourea: Toxic to aquatic life with long lasting effects.

**12.2. Persistence and degradability**

Further details: No data available

**12.3 Bioaccumulative potential**

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

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

No data available

**12.6 Other adverse effects**

General information: Do not allow to enter into ground-water, surface water or drains

**13. Disposal considerations****13.1 Waste treatment methods****Product**

Waste key number 16 05 06\* = Laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals.  
\* = Evidence for disposal must be provided.

Recommendation: Special waste. Waste disposal according to official state regulations.

**Contaminated packaging**

Waste key number 150102 = Plastic packaging.  
Recommendation: Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.

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**14.1 Transport information****14.1 UN number**

ADR/RID, IMDG, IATA-DGR: not applicable

**14.2 UN proper shipping name**

ADR/RID, IMDG, IATA-DGR: Not restricted

**14.3 Transport hazard class(es)**

ADR/RID, IMDG, IATA-DGR: not applicable

**14.4 Packing group**

ADR/RID, IMDG, IATA-DGR: not applicable

**14.5 Environmental hazards**

Marine pollutant: no

**14.6 Special precautions for user**

No dangerous good in sense of these transport regulations.

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

No data available

**15. Other information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations - Great Britain**

Hazchem-Code: -

No data available

**National regulations - EC member states**

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3

**15.2 Chemical Safety Assessment**

For this substance a chemical safety assessment is not required.

**16. Other information****Further information**

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H335 = May cause respiratory irritation.

H351 = Suspected of causing cancer.

H361d = Suspected of damaging the unborn child.

H411 = Toxic to aquatic life with long lasting effect

Reason of change: General revision (Regulation (EU) No 2015/830)

Date of first version: 2011-07-01

**Department issuing data sheet**

Contact person: see section 1: Dept. responsible for information

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations). The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.