

Material Safety Data Sheet in accordance with Directive 91/155/EEC

1. Identification of the substance/preparation and of the company/undertaking

Trade name: Carbon Dioxide Buffer Solution
Product number: ISA51
Company: Consort bvba, Parklaan 36, B-2300 Turnhout
Date effective: 01.01.11

2. Composition/information on ingredients

This product is a preparation and does not require a hazard warning label in accordance with EC directives on dangerous substances.

3. Hazard possibilities

No special hazards have to be mentioned.

4. First aid measures

after inhalation: Ensure supply of fresh air.
after contact with skin: In case of contact with skin wash off with water.
after contact with eyes: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
after ingestion: In the event of symptoms call a physician.
Additional information: None.

5. Fire-fighting measures

Suitable extinguishing media: Water spray jet, carbon dioxide, dry powder, foam.
Extinguishing media which must not be used for safety reasons: Full water jet.
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: In the event of fire the following can be released: irritant gases/vapours.
Additional information: Do not inhale explosion and/or combustion gases. Use breathing apparatus. Cool endangered containers with water spray jet.

6. Accidental release measures

Pick up with absorbent material and dispose of in accordance with the regulations.

7. Handling and storage

Handling: No special measures necessary if used correctly.
Storage: Keep container tightly closed. Recommended storage temperature: keep cool (max. 25°C).

8. Exposure controls / personal protection

Additional advice on system design: None.
Ingredients with occupational exposure limits to be monitored: None.
Respiratory protection: n.ap.
Hand protection: Protective gloves.
Eye protection: Safety glasses.
Body protection: Light protective clothing.
General protective measures and hygiene measures: Avoid contact with eyes and skin. Change soaked clothing. At work do not eat, drink, smoke.
Wash hands before breaks and after work.

9. Physical and chemical properties

Boiling point / boiling range (°C): +100	Melting point (°C): -20	Thermal decomposition: n.av.
Flash point (°C), c.c.: n.ap.	Ignition temperature (°C): n.ap.	Lower explosion limit: n.ap.
Upper explosion limit: n.ap.	Relative density / bulk density: 1.2	Solubility in water: soluble
CAS no.: 7647-14-5, Sodium Chloride: 5.8%		
CAS no.: 77-92-9, Citric Acid: 6.1%		
CAS no.: 6132-04-3, Sodium Citrate: 17.6%		
CAS no.: 7732-18-5, Water: 70.5%		
pH: 4.5		

10. Stability and reactivity

No hazardous reactions known.
Hazardous decomposition products: irritant gases/vapours.

11. Toxicological information

Irritating effects on the skin, eyes and mucous membrane possible.

12. Ecological information

Ecological data are not available.

13. Disposal considerations

Recommendation: Consultation with the disposal agency and the relevant authorities necessary.
Waste code: n.av.
Name of waste: n.av.

14. Transport information

Road transport ADR / RID / GGVS / GGVE: n.ap.
Marine / air transport / IMDG-Code / IATA-DGR: n.ap.

15. Regulatory information

Labelling in accordance with Directive EEC
Symbols of danger: n.ap.
Indications of danger: n.ap.
Hazardous components to be indicated on label: n.ap.
Special labelling for certain preparations: n.ap.
Remarks: Does not require a hazard warning label, but the normal safety precautions for handling of chemicals must be observed.
Water hazard class: 0 (self-classification)

16. Other information

Recommended use laboratory chemical
Distribution for industry consumer, for the general public

n.ap. = not applicable, n.av. = not available

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.