

MATERIAL SAFETY DATA SHEET According to 91/155/EEC

PRODUCT: SODIUM CHLORIDE (HYGITECH)

Version: 27/01/2010

1 - IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Identification of the substance or the preparation:

Product name: Sodium Chloride 0,9% 500ml

Sodium Chloride 0,9% 250ml

Identification of the supplier:

HYGITECH

109 bis avenue Charles de Gaulle

92200 Neuilly-sur-Seine

Telephone: 01 48 01 32 89 **Fax:** 01 48 01 32 80

2 - COMPOSITION / INFORMATIONS ON INGREDIENTS

Hazardous Ingredients CAS# Hazard identification &

Risk Phrases

R-Phrases CAS-No. 7647-14-5 Not applicable

EC-No. (EINECS/ELINCS) 231-598-3

Special hazards information

for humans and environment

Nol classified as a dangerous

product according to the EC-guideline in the latest version.

3 - HAZARDS IDENTIFICATION

4 - FIRST AID MEASURES

<u>General Information</u> Consult physician with continuous complaints. In case of

inhalation

In case of inhalationEnsure fresh air.In case of skin contactRinse off with water

In case of eye contact

Rinse thoroughly with water. Alter swailowing
Rinse mouth with water and drink plenty of water.

5 - FIRE-FIGHTING MEASURES

Suitable extinguishing material The product is not combustible.

Extinguishing material that may not be used for safety reasons

None

Special exposure hazards arising from the substance, combustion products or resulting gases

In the event of fire: Hydrogen chloride (HCI) can be set

free.

Special protective equipment for fire-fighters

In the event of tire and/or explosion do not breathe fumes.

Additional information

Collect contaminated fire fighting water separately, may

not be discharged into the drains.

6 - ACCIDENTAL RELEASE MEASURES

Personal precautionary measures Avoid dust formation

HYGITECH – 109 bis avenue Charles de Gaulle - 92200 Neuilly-sur-Seine - France - Tel : +33 1 48 01 32 89 - Fax : +33 1 48 01 32 80 / contact@hygitech.fr - RCS PARIS B 482 760 386 - TVA : FR 69 482 760 386 Page 1 sur 5



Environmental precautionsDo not discharge into the drains or bodies of waters

Methods for cleaning / picking up Avoid dust formation

Disposai according to regulations Flush away residues with water

Pick up mechanically and send for disposai

Additional information Information for safe handling see Chapter 7.

Information for persona' protective equipment see-

-Chapter 8.

Information for disposai see Chapter 13.

7- HANDLING AND STORAGE

Advice on safe handling No special measures necessary if used correctly.

Take the usual precautions when handling chemicals.

Advice on protection against fire and explosion

The product is not combustible. No special measures necessary.

Requirements for storage rooms and vessels

Refer to the National Regulations for Sodiumchloride (e.g.

Germany: WGK 1, footnote 14).

Advice on storage compatibility

Do not store together with strong acids

Do not store together with oxidizing agents.

Further Information on storage conditions

Store in a dry place.

Storage Group 13 (German VCI-classification)

Information on storage stability

Unlimited stability.

8 - EXPOSURE CONTROL AND PERSONAL PROTECTION

Additional advice on system design None

Additional advice None

Respiratory protection In case of dust formation wear micro dust mask.

Hand protection Not required.

Eye protection In case of dust formation wear goggles.

Skin protection None

General protective measures None

<u>Hygiene measures</u> Do not eat or drink during work.

Brush soiled clothing.

Alter work wash thoroughly.

9 - PHYSICAL AND CHEMICAL PROPERTIES

Form Colour Colourless Odourless Odourless

Data relevant for safetyValueTemperatureAtMethodRemarkpH-value in delivery state6 - 920 °C9 g/lDIN 38404-5neutral



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Flammable solid No
Flammable gas No
Combustion temperature No
Autoignition No
Lower explosion limit No
Upper explosion limit No

Vapour pressure 0 mbar 20 °C

 Density
 2,1615 g/crW 25 °C
 1013 hPa

 Bulk density
 Vacuum sait: 1100 — 1300 kg/m³

 Solubility in water
 359 g/l
 20 °C
 1013 hPa

<u>Partitioncoefficient</u> Not determined

(log pOW)

Viscosity 1 Not applicable

10 - STABILITY AND REACTIVITY

Conditions to avoid None

Materials to avoid

Reactions with strong acids. Reactions with oxidizing agents.

Corrosive to metals.

Hazardous decomposition products With strong acids: Hydrogen chloride (HCI) With oxidizing

agents: chlorine gas (Cl2)

11 - TOXICOLOGICAL INFORMATION

ValueNalidation Species Method

Remark

LD50 acute oral 3000 mg/kg rat

Ref.5

LD50 acute dermal not determined **LC50 acute inhalation** not determined

<u>Irritability skin</u> slightly irritant rabbit

Ref.6

Irritability eye slightly irritant rabbit

Ref.6

Sensitization skin no

Experiences

Sensitization respiratory system

Experiences

Toxicological test (Additional information)

No experimental indication of genotoxic effects.

Substance has no mutagene activity (Ames-Test)

Additional information

Toxicological data refer to pure product.

Our data are not sufficient for total texture judgement. Follow the usual hygiene directives for handling with

chemicals.

12 - ECOLOGICAL INFORMATION

Elirnination (persistance and degradability)

Elimination rate Method of analysis Method Remark



Not applicable Not applicable

Inorganic product, cannot be eliminated from water by biological purification process not applicable

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Ecotoxicological effects

_	Value	Species	Method	Remark
Fish	LC50 7341 mg/l (96 h)		Carassius Auratus	Ref. (1)
Daphnia	EC50 4135 mg/l (48 h)		Daphnia magna	Ref. (2)
Algae	EC50 9000 mg/l (7 d)		Potamogeton	Ref. (3)
Bacteria	EC17 577 mgfl (5 d)		Paramecium tetranrelia	Ref. (4)
Behaviour in sewage plant				

When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

Additional ecological information

Value

Method

Remark

AOX Not applicable

General information

With intended application no ecological problems likely.

13 - DISPOSAL CONSIDERATIONS

Waste code No. Name of Waste

06 03 14 Solid salts and solutions except those mentioned in 06

03 11 and 06 03 13.

Recommendations for the product

In accordance with regulations for special waste, discharge of alter pretreatment, to an authorized

special waste disposai site.

Recommendations for the packaging

Uncontaminated packaging may be taken for

recycling.

Contaminated packaging should be emptied as far as

possible and discharged like product.

Recommended cleansing agent

No

14 - TRANSPORT INFORMATION

Land and inland navigation transport (ADRIRID/GGVSE) Remarks

No hazardous material as defined by the regulations.

15 - REGULATORY INFORMATION

Remarks for classification No R-phrases No S-phrases No

National regulations



Restriction of occupation Decree for case of interference Classification acc. to VbF No Not applicable

VbF: is not subject to decree for combustible

liquids. No

German TA Luft Remarks

Water hazard classification 1 KBwS classification

16 - OTHER INFORMATION

Training advice
Recommended uses and restrictions

No No

Further information

The information given is based on our present knowledge and is not meant to guarantee product properties. Recipients of our product must take responsibility for observing existing laws and regulations.

Refer to product information.

All informations of this safety-data-sheet refer to pure substance.

Sources of key data used

Ref. (1): Adelman IR et al (1976) J. Fish. Res. Board Can., 33, 203-208

Ref. (2): Biesinger, K.E. et al (1972) J. Fish. Res. Board Can., 29(12), 1691

Ref. (3): Environmental Protection Agency, Water Quality Criteria Data Book: Effects of chemicals on aquatic life, Environmental Protection Agency, Water Quality Office, Washington, D.C., Vol.3, p128-130(1971)

Ref. (4): Cronkite, **D.L.**, Gustafson, Bauer, B.F., Role of protein synthesis and ninhydrin-positive substances

in acclimation of PARAMECIUM TETRAURELLIA to high NaCl, J. Exp. Zool., No.233, p21-28 (1985)

Ref. (5): (1971), Toxicology and Applied Pharmacology, 20, p.57 (1971)

Ref. (6): EUCLID data sheet CAS-Nr. 7647-14-5

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