

# Safety Data Sheet

## 1. PRODUCT IDENTIFICATION AND PRODUCE / SUPPLIER

### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 NAME : **CARBOSORB 93 CPA**  
 USE : AMMONIA ADSORPTION  
 PRODUCT : ACTIVATED CARBON

1.2 COMPANY : **NEOLT S.p.A.**  
 Via G. Galilei, 8 - 24036 Ponte San Pietro (BG) - Italia  
 TEL. 035468811  
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IN A EMERGENCY PLEASE CONTACT : CENTRO ANTIVELENI MILANO NIGUARDA  
 TEL. 02 66101029

Document:

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

	NAME	CAS	% MAX	SYMBOL	PHRASE R	PHRASE S
2.1	FOSFORIC ACID	7664-38-2	17	C	34	26
2.2	SOLFURIC ACID	7664-38-02	21	C	35/36	36/37/38
2.3	ACTIVATED CARBON	7440-44-0	50	XI	37/38	26

## 3. HAZARDS IDENTIFICATION

3.1 ENVIRONMENT HAZARD : TO CONSIDER THE LOW pH VALUE  
 3.2 HEALTH HAZARD : NO ANY IF MANIPULATED WITH ATTENTION

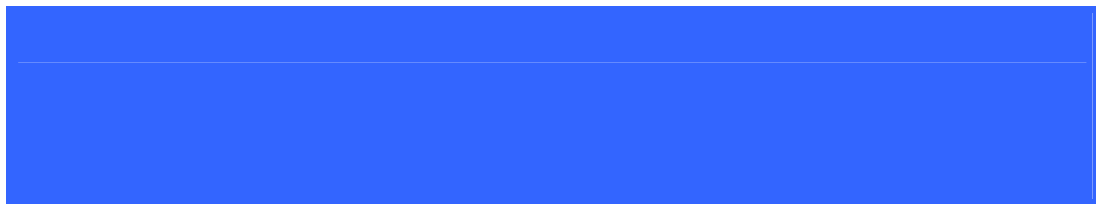
## 4. FIRST AID MEASURES

Injuries to personnel assigned to the use of this product are unknown. Anyway in case of contact, inhalation or swallow, these first aid measures should be taken

- Inhalation : Take the person to the open air. If breathing is difficult, artificial respiration should be practised and a doctor should be called
- If swallowed : A doctor should be consulted; cause vomiting only on doctor's advice; the person being unconscious, nothing should be given orally
- Eyes and skin : wash with plenty of water; a doctor should be consulted if irritation persist
- Ingestion : Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.

## 5. FIRE FIGHTING MEASURES

- Extinguishing media : Water (fog or fine spray), carbon dioxide. Avoid methods which may stir up dust clouds.
- Special fire fighting protective equipment : Self-contained breathing apparatus
- Unusual fire and explosion hazard : airborne dust is a weak explosion hazard



## ACTIVATED CARBON AND FILTRATION MEDIA

### 6. ACCIDENTAL RELEASE MEASURES

Wear respiratory protection during cleanup Sweep up and recover or mix material with moist absorbent and shovel into waste container. Wash down spill area with water containing detergent and flush away with plenty of water.

6.1 CLEANING METHOD : to neutralise with quicklime and water wash

### 7. HANDLING AND STORAGE

Precaution to be taken in handling or storing:  
Activated carbon can be safely stored in any normal storage area, but away from sources of direct heat.  
An oxygen deficiency may be created when activated carbon is stored in an enclosed space/silo.  
Ventilate or wear self-contained breathing apparatus.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 BREATHING PROTECTION :sufficient a good aeration

Protective Clothing : For personal hygiene purposes use adequate clothing to prevent skin contact.  
Eye protection : Safety glasses with side shields. Contact lenses should not be worn when working with activated carbon

### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 APPEARANCE :granular  
9.2 COLOUR :black  
9.3 ODOUR :without odour  
9.4 DENSITY :0.75 Kg/l +/- 50  
9.5 pH :1,5 (water solution 1 %)  
9.6 VISCOSITY :not applicable  
9.7 WATER SOLUBILITY :total for active part. Activated carbon isn't soluble  
9.8 BOILING POINT :108 °C . suspension al 50 %  
9.10 IGNITION POINT :not inflammable

### 10. STABILITY AND REACTIVITY

10.1 CONDITION TO AVOID :contact with pure , NO3, calcium carbide, peroxides  
10.2 MATERIAL TO AVOID :Zn, Al, Mg, Cu and alloy  
10.3 DECOMPOSITION PRODUCTS :for reactions with metals to develop hydrogen

### 11. TOXICOLOGICAL INFORMATION

11.1 ORAL TOXICITY : DL50 = 1530 mg/Kg STEL-TLV = 3 mg/m3  
11.2 POINTED INHALATORY TOXICITY : ND TWA-TLV = 1 mg/m3  
11.3 OTHER DATA : DL50 cutaneous = 2740 mg/kg

### 12. ECOLOGICAL INFORMATION

Use the product according to good working rules without contaminating the environment.

### 13. DISPOSAL CONSIDERATIONS

13.1 The product should be burnt in a proper incinerator after adding fuel : see National laws.  
Disposal method : dispose of virgin (unused) carbon (waste or spillage) in a facility for non-hazardous wastes  
Container disposal : do not reuse empty bags : dispose of in facility permitted for non-hazardous waste

**14. TRASPORT INFORMATION**

14.1	RID-ADR	: class 8 N° 1
14.2	IATA/ICAO	: n° 1.441
14.3	IMCO	: CLASS 9 page 9.034
14.4	ROAD OR RAILWAY TRANSPORT	: no danger labelling necessary

**15. REGULATORY INFORMATION**

15.1	CEE SYMBOL	:C and Xi
15.2	HAZARDINDICATION	:corrosive, phosphoric and sulphuric acid contents
15.3	PHRASE OF RISK	:R34/35/36/37/38/ provoke skin burn and irritation.
15.4	CAUTION'S ADVICES	:S 26 In case of eyes contact clean immediately with water and doctor contact

**16. OTHER INFORMATION**

This security data sheet has been issued according to EEC standards corresponding internally to European Community.

General bibliography:

1. Direttiva 91/325/CEE . Classificazione sostanze pericolose, classificazione ed etichettatura.
2. D.M.28/01/92 : Classificazione preparati pericolosi - Schede di sicurezza
3. The Merck Index Ed. 10
4. Handling Chemical Safety
5. Niosh-Registry of Toxic Effects of Chemical Substances
6. INRS-Fiche Toxicologique
7. Patty-Industrial Hygiene and Toxicology
8. D.M. 26/04/89 Catasto dei rifiuti urbani
9. D.M. 12/07/90 Emissione inquinanti
10. D.M. 16/02/93 Elenco sostanze pericolose
11. DPR 303 del 19/03/95 Norme generali per l'igiene del lavoro

Material safety data sheet according to guideline 2001/ 58 / EC and 1999 / 45 / EC

Warning for gas phase application

: High concentration of contaminants in the gas stream can cause a considerable amount of adsorption heat, which may result in spontaneous carbon bed fires or hot spots.  
Under certain circumstances some chemical compound may, in contact with activated carbon, oxidize, decompose or polymerize. This may result in potentially combustible condition.

The pieces of information of this data are based on our actual knowledge's joining in its last revision. Please ensure that is passed to the appropriate person(s) in your company capable of acting on the information.

