SODIUM METASILICATE (ANHYDROUS)

0359
April 2004

CAS No: 6834-92-0
RTECS No: VV9275000
UN No: 3253
EC No: 014-010-00-8

Silicic acid, sodium salt
Disodium metasilicate
Disodium trioxosilicate
Na_2SiO_3
Molecular mass: 122.1

TYPES OF HAZARD/ EXPOSURE	ACUTE HAZARDS/SYMPTOMS	PREVENTION	FIRST AID/FIRE FIGHTING
FIRE	Not combustible.		In case of fire in the surroundings: use appropriate extinguishing media.
EXPLOSION			

EXPOSURE		**PREVENT DISPERSION OF DUST! AVOID ALL CONTACT!**	**IN ALL CASES CONSULT A DOCTOR!**
Inhalation	Sore throat. Burning sensation. Cough. Shortness of breath.	Local exhaust or breathing protection.	Fresh air, rest. Half-upright position. Artificial respiration may be needed. Refer for medical attention.
Skin	Redness. Pain. Skin burns.	Protective gloves. Protective clothing.	Remove contaminated clothes. Rinse skin with plenty of water or shower. Refer for medical attention.
Eyes	Redness. Pain. Severe deep burns.	Face shield, or eye protection in combination with breathing protection if powder.	First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then take to a doctor.
Ingestion	Burning sensation. Abdominal pain. Shock or collapse.	Do not eat, drink, or smoke during work.	Rinse mouth. Do NOT induce vomiting. Give plenty of water to drink. Refer for medical attention.

SPILLAGE DISPOSAL	**PACKAGING & LABELLING**	
Sweep spilled substance into plastic containers; if appropriate, moisten first to prevent dusting. Cautiously neutralize remainder with dilute acid (preferably acetic acid). Then wash away with plenty of water. Personal protection: P2 filter respirator for harmful particles.	C Symbol R: 34-37 S: (1/2-)13-24/25-36/37/39-45 UN Hazard Class: 8 UN Pack Group: III	Do not transport with food and feedstuffs.

EMERGENCY RESPONSE	**STORAGE**
Transport Emergency Card: TEC (R)-80GC6-II+III	Separated from strong acids, food and feedstuffs, metals, halogens. Store in an area having corrosion resistant concrete floor.

IPCS
International Programme on Chemical Safety

Prepared in the context of cooperation between the International Programme on Chemical Safety and the European Commission

SEE IMPORTANT INFORMATION ON THE BACK.

IMPORTANT DATA

Physical State; Appearance
COLOURLESS TO WHITE, HYGROSCOPIC SOLID IN VARIOUS FORMS.

Chemical dangers
The solution in water is a strong base, it reacts violently with acid and is corrosive to aluminium, zinc forming flammable/explosive gas (hydrogen - see ICSC0001). Reacts with halogens causing fire hazard.

Occupational exposure limits
TLV not established.
MAK not established.

Routes of exposure
The substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

Inhalation risk
Evaporation at 20/C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed.

Effects of short-term exposure
The substance is corrosive to the eyes, the skin and the respiratory tract. Corrosive on ingestion.

PHYSICAL PROPERTIES

Melting point: 1089/C
Density: 2.6 g/cm^3

Solubility in water: good

ENVIRONMENTAL DATA

NOTES

ADDITIONAL INFORMATION