



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT & IDENTIFICATION

Trade Names:

A38, A44, A49, A53, A55, H40, H44, N35, N38, N42, N44

Chemical Name:

Sodium Silicate Solution

Chemical Formula:

$\text{Na}_2\text{O}(\text{SiO}_2)$

Company Identification:

C.THAI CHEMICALS CO.,LTD.

444 Moo 4 Petchkasem Road, Omnoi, Krathumban, Samutsakorn 74130 THAILAND

Tel: 02-810-5090-9,02-420-5891-3

Fax: 02-420-5894,02-810-5090 Ext. 501

Uses:

Sodium silicate is a general purpose industrial chemical with many and varied uses, particularly in detergent and adhesive applications.

SECTION 2 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Colourless to slightly grey liquid.

ODOUR: None

pH: 11 - 12

VISCOSITY: 20 – 3000 cP at 20°C

FREEZING POINT: 0°C approx

BOILING POINT: 100°C approx

MELTING POINT: Not applicable

FLASH POINT: Not applicable

AUTOFLAMMABILITY: Not applicable

EXPLOSIVE LIMITS: Not applicable

VAPOUR PRESSURE: Not applicable
RELATIVE DENSITY: 1.2 – 1.6
SOLUBILITY (H₂O): Soluble
PARTITION COEFF: Not determined
VAPOUR DENSITY: Not applicable

SECTION 3 REACTIVITY DATA

CHEMICAL STABILITY : YES
IF SO UNDER WHICH CONDITIONS : Stable under ordinary condition of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTS : None Known
REACTIVITY AND UNDER WHAT CONDITIONS
REACTS WITH ACID : Heat released

SECTION 4 TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE OF ENTRY : Skin Contact
: Eye Contact
: Inhalation Acute.
EFFECTS OF ACUTE EXPOSURE TO PRODUCT : LD50 > 2,000 Mg/kg body weight. Rat.
Therefor the compound is acute slightly
toxic after ingestion.

SECTION 5 PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT : Protective equipment worn will depend on nature of the work.
GLOVES (SPECIFY) : Suitable protective gloves.
RESPIRATORY (SPECIFY) : Mask should be used when the solution is sprayed.
EYES (SPECIFY) : Safety goggles
FOOTWEAR (SPECIFY) : Rubber
OTHER (SPECIFY) : Approved working clothes
ENGINEERING CONTROL (SPECIFY) : General ventilation is usually adequate local exhaust may also
be used.
WASTE DISPOSAL : Consult environmental authorities to ensure compliance, e.g.
suitable dumping
STORAGE REQUIREMENT : Store in tightly closed containers, well ventilated area.

SECTION 6 FIRST AID MEASURE

SKIN	: Wash area immediately with soap and plenty of running water. Obtain medical advices if irritation persists. Removed Contaminated clothes.
EYES	: Wash eyes with gentle stream of running water. Immediately obtain medical attention.
INHALATION	: Remove to fresh air. Obtain medical attention for any breathing difficulty.
INGESTION	: Low toxicity by ingestion. Drink plenty of water. Flush oral cavity, consult a physician immediately.
GERNERAL ADVICES	: Obtain medical attention for all serious injuries.

SECTION 7 PREPARATION DATE OF M.S.D.S.

ADDITIONAL INFORMATIONS

Information contained in this publication is accurate to the best of the knowledge of the publisher as of the date stated. However C.THAI CHEMICAL CO.,LTD. makes no representation as to the accuracy or completeness of information and is not responsible for loss or damage resulting from the use or reliance upon such information. No representations or warranties or any kind either expressed or imply of marchantability:

Date of preparation: 18 November 2002