

XINJIANG TIANYE GROUP FOREIGN TRADE CO., LTD.

RM 1001 HUADU BUILDING URUMQI, XINJIANG, CHINA

MSDS

MATERIAL SAFETY DATA SHEET FOR CAUSTIC SODA PEARLS

General

Synonyms: caustic soda, soda lye, lye, white caustic, aetznatron, ascarite, Collo-Grillrein, Collo-Tapetta, sodium hydrate, fotofoil etchant, NAOH, STCC 4935235, sodium hydroxide pellets, Lewis red devil lye

Molecular formula: NaOH

CAS No: 1310-73-2

EC No: 215-185-5

Annex I Index No: 011-002-00-6

Physical data

Appearance: odourless white solid (often sold as pellets)

Melting point: 318 C

Boiling point: 1390 C

Vapour density:

Vapour pressure: 1 mm Hg at 739 C

Specific gravity: 2.12

Flash point: n/a

Explosion limits: n/a

Autoignition temperature:

Water solubility: High (Note: dissolution in water is highly exothermic)

Stability

Stable. Incompatible with a wide variety of materials including many



metals, ammonium compounds, cyanides, acids, nitro compounds, phenols, combustible organics. Hygroscopic. Heat of solution is very high and may lead to a dangerously hot solution if small amounts of water are used. Absorbs carbon dioxide from the air.

Toxicology

Very corrosive. Causes severe burns. May cause serious permanent eye damage. Very harmful by ingestion. Harmful by skin contact or by inhalation of dust. Typical TLV 2 mg m⁻¹.

Toxicity data

IPR-MUS LD50 40 mg kg⁻¹

Irritation data

EYE-MKY 1%/24h sev

SKN-RBT 500 mg/24h sev

EYE-RBT 1% sev

Risk phrases

R35.

Transport information

UN Major hazard class 8.0. Packing group II. UN No 1823. EMS No 8.0-06.

Personal protection

Safety glasses, adequate ventilation, Neoprene or PVC gloves.

Safety phrases

S26 S37 S39 S45

