

Univar USA Inc Material Safety Data Sheet

ATTILIO A MERLINO 4100 4TH AVE S

SEATTLE

WA 98134

MSDS No:

OZ32413

Version No: |007 01/08/07

Order No:

KT942528

Univar USA Inc., 17425 NE Union Hill Rd., Redmond WA 98052 (425) 889 3400

Emergency Assistance

For emergency assistance involving chemicals call Chemtrec - (800) 424-9300

MSDS NO:OZ32413 VERSION:007 01/08/07

The Version Date and Number for this MSDS is : 01/08/2007 - #007

PRODUCT IDENTIFICATION

PRODUCT NAME:

CAUSTIC SODA ANHYDROUS (ALL GRADES)

MSDS#:

OZ32413

DATE ISSUED:

04/07/2004

SUPERSEDES:

05/06/2003

ISSUED BY:

008730

This MSDS was reviewed on 01/08/2007, and is

current as of the DATE ISSUED above.

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Distributed by:

Univar USA Inc.

17425 NE Union Hill Road

Redmond, WA 98052

425-889-3400

SUBSTANCE: CAUSTIC SODA ANHYDROUS (ALL GRADES)

TRADE NAMES:

Caustic Soda - Solid; Caustic Soda - Beads; Caustic Soda- # 2 Flake;

Caustic Soda - # 4 Flake; Caustic Soda - Rayon; Caustic Soda - Diaphragm;

Diaphragm Compounder

SYNONYMS:

Sodium hydroxide - Dry

PRODUCT USE: cleaner, process chemical, petroleum industry, food processing,

metal finishing

REVISION DATE: Apr 07 2004

2. COMPOSITION, INFORMATION ON INGREDIENTS

COMPONENT: SODIUM HYDROXIDE

CAS NUMBER: 1310-73-2 PERCENTAGE: 97-98.2

MSDS NO:OZ32413 VERSION:007 01/08/07

COMPONENT: SODIUM CHLORIDE

PERCENTAGE: 7647-14-5

COMPONENT: SODIUM CARBONATE

CAS NUMBER: 497-19-8 PERCENTAGE: 0.4-1.0

3. HAZARDS IDENTIFICATION

NFPA RATINGS (SCALE 0-4): HEALTH=3 FIRE=0 REACTIVITY=2

HMIS RATINGS (SCALE 0-4): HEALTH-3 FLAMMABILITY-O REACTIVITY-2

EMERGENCY OVERVIEW:

COLOR: white PHYSICAL FORM: solid ODOR: odorless

MAJOR HEALTH HAZARDS: MAY CAUSE BURNS TO THE RESPIRATORY TRACT, SKIN, EYES AND GASTROINTESTINAL TRACT. MAY CAUSE PERMANENT EYE DAMAGE.

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: irritation (possibly severe), burns, pulmonary edema LONG TERM EXPOSURE: to our knowledge, no effects are known

SKIN CONTACT:

SHORT TERM EXPOSURE: irritation (possibly severe), burns

LONG TERM EXPOSURE: dermatitis

EYE CONTACT:

SHORT TERM EXPOSURE: irritation (possibly severe), burns, eye damage,

blindness

LONG TERM EXPOSURE: visual disturbances

INGESTION:

SHORT TERM EXPOSURE: irritation (possibly severe), burns, nausea, vomiting

LONG TERM EXPOSURE: to our knowledge, no effects are known

CARCINOGEN STATUS:

OSHA: No NTP: No IARC: No

4. FIRST AID MEASURES

INHALATION:

If adverse effects occur, remove to uncontaminated area. Give artificial

MSDS NO:OZ32413 VERSION:007 01/08/07

respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. If respiration or pulse has stopped, have a trained person administer Basic Life Support (Cardio-Pulmonary Resuscitation/Automatic External Defibrillator) and CALL FOR EMERGENCY SERVICES IMMEDIATELY.

SKIN CONTACT:

Immediately flush contaminated areas with water. Remove contaminated clothing, jewelry, and shoes immediately. Wash contaminated areas with soap and water. Thoroughly clean and dry contaminated clothing and shoes before reuse. Discard footwear which cannot be decontaminated. GET MEDICAL ATTENTION IMMEDIATELY.

EYE CONTACT:

Immediately flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissues. Washing eyes within several seconds is essential to achieve maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION:

Never give anything by mouth to an unconscious or convulsive person. If swallowed, do not induce vomiting. Give large amounts of water. If vomiting occurs spontaneously, keep airway clear. Give more water when vomiting stops. GET MEDICAL ATTENTION IMMEDIATELY.

NOTE TO PHYSICIAN: The absence of visible signs or symptoms of burns does NOT reliably exclude the presence of actual tissue damage.

5. FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS:

Negligible fire hazard.

EXTINGUISHING MEDIA:

Do not use water. Use extinguishing agents appropriate for surrounding fire.

FIRE FIGHTING:

Move container from fire area if it can be done without risk.

SENSITIVITY TO MECHANICAL IMPACT: Not sensitive SENSITIVITY TO STATIC DISCHARGE: Not sensitive FLASH POINT: not flammable

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Shovel dry material into suitable container. Keep out of water supplies and sewers. This material is alkaline and may raise the pH of surface waters with low buffering capacity. Releases should be reported, if required, to appropriate agencies. Notify Local Emergency Planning Committee and State

MSDS NO:OZ32413 VERSION:007 01/08/07

Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under $^{\sim}$ TERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA).

STORAGE:

Store and handle in accordance with all current regulations and standards. Keep container tightly closed and properly labeled. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen gas may be generated. Keep separated from incompatible substances.

HANDLING:

Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. When mixing, slowly add to water to minimize heat generation and spattering.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

SODIUM HYDROXIDE:

- 2 mg/m3 OSHA TWA
- 2 mg/m3 OSHA ceiling (vacated by 58 FR 35338, June 30, 1993)
- 2 mg/m3 ACGIH ceiling
- 2 mg/m3 MEXICO peak

VENTILATION:

Provide local exhaust ventilation where dust or mist may be generated. Ensure compliance with applicable exposure limits.

EYE PROTECTION:

Wear chemical resistant safety goggles if eye contact is likely. When wet mixing, wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING:

Wear protective clothing to minimize skin contact. When potential for contact with wet material exists, wear Tychem(R) SL or a similar chemical protective suit. When potential for contact with dry material exists, wear disposable coveralls such as Tyvek(R).

GLOVES:

Wear suitable gloves. Discard contaminated leather goods. When wet mixing, wear chemical resistant gloves such as butyl rubber, natural rubber, neoprene or nitrile.

PROTECTIVE MATERIAL TYPES:

outyl rubber, canvas, leather, natural rubber, neoprene, nitrile, Tychem (R), Tyvek(R)

RESPIRATOR:

MSDS NO:OZ32413 VERSION:007 01/08/07

A NIOSH approved respirator with N95 (dust, fume, mist) filters may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits, or when symptoms have been observed that are indicative of overexposure.

A half facepiece air-purifying respirator may be used in concentrations up to 1 OX the acceptable exposure level and a full facepiece air-purifying respirator may be used in concentrations up to 50X the acceptable exposure level.

Supplied air should be used when the level is expected to be above 50X the acceptable level, or when there is a potential for uncontrolled release. A respiratory protection program that meets 29 CFR 1910.134 must be followed whenever workplace conditions warrant use of a respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: solid

COLOR: white

ODOR: odorless

MOLECULAR WEIGHT: 40.00

MOLECULAR FORMULA: NAOH

BOILING POINT:

MELTING POINT:

VAPOR PRESSURE:

VAPOR DENSITY:

Not applicable

Not applicable

SPECIFIC GRAVITY (water=1): 2.13 @ 20 C

WATER SOLUBILITY: 100%

PH: Not applicable

VOLATILITY: 0%

ODOR THRESHOLD: Not available EVAPORATION RATE: Not applicable

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressure.

CONDITIONS TO AVOID:

Avoid contact with water. Direct contact with water may cause an exothermic reaction. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

INCOMPATIBILITIES:

acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys

HAZARDOUS DECOMPOSITION:

Thermal decomposition products: None known.

POLYMERIZATION: Will not polymerize.

11. TOXICOLOGICAL INFORMATION

MSDS NO:OZ32413 VERSION:007 01/08/07

CAUSTIC SODA ANHYDROUS (ALL GRADES):

TOXICITY DATA: Sodium Hydroxide: 1350 mg/kg Dermal-Rabbit LD50.220 mg/kg (50% solution) Oral-Rat LD50. As a solid, this material interacts with moist tissue to cause damage. When in solution, this material will affect all tissues with which it comes in contact. The severity of the tissue damage is a function of its concentration, the length of tissue contact time, and local tissue conditions. After exposure there may be a time delay before irritation and other effects occur. This material is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. This material may cause severe burns and permanent damage to any tissue with which it comes into contact. Inhalation will cause severe irritation, possible burns with pulmonary edema, which may lead to pneumonitis. Skin contact with this material may cause severe irritation and corrosion of tissue. Eye contact can cause severe irritation, corrosion with possible corneal damage and blindness. In general, chronic effects are due to long-term irritation. This material may cause dermatitis on the skin, or recurrent corneal ulceration and visual disturbances. In rare cases reports have noted long-term inhalation causes bronchial inflammatory reaction or obstructive airway dysfunction.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA:

FISH TOXICITY: This material has exhibited moderate toxicity to aquatic organisms.

FATE AND TRANSPORT:

BIODEGRADATION: This material is inorganic and not subject to biodegradation.

PERSISTENCE: This material will exist in the disassociated state.

BIOCONCENTRATION: This material is believed not to bioaccumulate.

OTHER ECOLOGICAL INFORMATION: This material has exhibited slight toxicity to terrestrial organisms.

13. DISPOSAL CONSIDERATIONS

Reuse or reprocess if possible. Dispose in accordance with all applicable regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:

PROPER SHIPPING NAME: Sodium hydroxide, solid

ID NUMBER: UN1823

HAZARD CLASS OR DIVISION: 8
PACKING GROUP: II
LABELING REQUIREMENTS: 8
DOT HAZARDOUS SUBSTANCE(S):

ORDER NO:KT942528 MATERIAL SAFETY DATA SHEET CUST:ATTILIO A MERLINO

MSDS NO:0Z32413 VERSION:007 01/08/07

Sodium hydroxide 1000 lb(s) (454 kg(s))

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME: Sodium hydroxide, solid

UN 1823 UN NUMBER:

CLASS: PACKING GROUP/RISK GROUP: II

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

SODIUM HYDROXIDE: 1000 LBS RQ

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

Not regulated.

SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

Yes ACUTE: CHRONIC: No FIRE: No REACTIVE: SUDDEN RELEASE: No

SARA TITLE III SECTION 313 (40 CFR 372.65): Not regulated.

OSHA PROCESS SAFETY (29CFR1910.119): Not regulated.

STATE REGULATIONS:

California Proposition 65: This product may contain contaminants known to the State of California to cause cancer or reproductive toxicity as listed under Proposition 65 State Drinking Water and Toxic Enforcement Act. For additional information, contact Customer Service.

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

REPORTING REQUIREMENT:

1310-73-2 97-98.2% SODIUM HYDROXIDE 7647-14-5 0-1.2% SODIUM CHLORIDE 497-19-8 0.4-1.0% SODIUM CARBONATE

RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST:

SODIUM HYDROXIDE 1310-73-2 97-98.2%

SPECIAL HEALTH HAZARD SUBSTANCE LIST:

SODIUM HYDROXIDE 1310-73-2 97-98.2%

PENNSYLVANIA RIGHT TO KNOW:

REPORTING REQUIREMENT:

1310-73-2 97-98.2% SODIUM HYDROXIDE

HAZARDOUS SUBSTANCE LIST:

SODIUM HYDROXIDE 1310-73-2 97-98.2%

ENVIRONMENTAL HAZARDOUS SUBSTANCE LIST:

MSDS NO:OZ32413 VERSION:007 01/08/07

SODIUM HYDROXIDE 1310-73-2 97-98.2%

SPECIAL HAZARDOUS SUBSTANCE LIST:

Not regulated.

CANADIAN REGULATIONS:

CONTROLLED PRODUCTS REGULATIONS (CPR): This product has been classified in accordance with the criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

WHMIS CLASSIFICATION: D 1 B, E.

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA): All the components of this substance are listed on or are exempt from the inventory.

TSCA 12(b) EXPORT NOTIFICATION: Not listed.

CANADA INVENTORY (DSL/NDSL): All components of this product are listed on the DSL.

MSDS SUMMARY OF CHANGES

Univar USA Inc Material Safety Data Sheet

For Additional Information contact MSDS Coordinator during business hours, Pacific time: (425) 889-3400

Notice

Univar USA Inc. ("Univar") expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Univar sales office.

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, Univar makes no representations as to its accuracy or sufficiency. Conditions of use are beyond Univar's control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein.

This information relates only to the product designated herein, and does not relate to its use in combination with any other material or in any other process