



BCS FLUIDS, LLC

SAFETY DATA SHEET

1. Identification

PRODUCT IDENTIFIER	CAUSTIC Soda
RECOMMENDED USE	NOT Available
RECOMMENDED RESTRICTIONS	NOT Available
MANUFACTURER/IMPORTER/SUPPLIER/DISTRIBUTOR INFORMATION	

COMPANY NAME	BCS Fluids, LLC
COMPANY ADDRESS	P.O. Box 1120 Mandeville, LA 70471
TELEPHONE	985-893-6600
EMERGENCY PHONE	855-BCS-Fluids
WEBSITE	www.BCSFluids.com

2. Hazards Identification

PHYSICAL HAZARDS	NOT classified.
HEALTH HAZARDS	SKIN CORROSION/IRRITATION CATEGORY 1B
SERIOUS EYE DAMAGE/EYE IRRITATION	CATEGORY 1
CORROSIVE TO METALS	CATEGORY 1
SPECIFIC TARGET ORGAN TOXICITY(SINGLE EXPOSURE)	CATEGORY 3
OSHA DEFINED HAZARDS	NOT classified.

GHS Label Elements, including precautionary statements

PICTOGRAM:



Signal word

DANGER

Hazard statement(s)

**MAY BE CORROSIVE TO METALS.
CAUSES SEVERE SKIN BURNS AND SERIOUS EYE DAMAGE. MAY CAUSE
RESPIRATORY IRRITATION.**

**PRECAUTIONARY STATEMENT(S)
PREVENTION**

**KEEP ONLY IN ORIGINAL PACKAGING.
DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY. WASH SKIN
THOROUGHLY AFTER HANDLING.
WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE
PROTECTION. USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA.
IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING.**

Response

BCS Fluids, LLC

IF ON SKIN (or hair):	Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED:	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER
Storage	Store in corrosive resistant container with a resistant inner liner. Store locked up. Store in a well ventilated place. Keep container tightly closed.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) NOT otherwise classified (HNOc)	NONE KNOWN.
Supplemental information	NONE.

3. Composition/info on Ingredients

Substances

Chemical Name	CAS No.	Wt. %
Sodium Hydroxide, Solid	1310-73-2	Approx. 99

PERCENTAGE RANGES OF COMPOSITION TO PROTECT CONFIDENTIALITY OR DUE TO BATCH VARIATION.

4. First Aid Measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire Fighting Measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
BCS Fluids, LLC	

UNSUITABLE EXTINGUISHING MEDIA**DO NOT USE WATER JET AS AN EXTINGUISHER, AS THIS WILL SPREAD THE FIRE.****SPECIFIC HAZARDS ARISING FROM THE CHEMICAL****DURING FIRE, GASES HAZARDOUS TO HEALTH MAY BE FORMED.****SPECIAL PROTECTIVE EQUIPMENT
AND PRECAUTIONS FOR FIREFIGHTERS****SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE
CLOTHING MUST BE WORN IN CASE OF FIRE.****FIRE FIGHTING
EQUIPMENT/INSTRUCTIONS****USE WATER SPRAY TO COOL UNOPENED CONTAINERS.****SPECIFIC METHODS****USE STANDARD FIREFIGHTING PROCEDURES AND CONSIDER THE HAZARDS OF
OTHER INVOLVED MATERIALS.****GENERAL FIRE HAZARDS****NO UNUSUAL FIRE OR EXPLOSION HAZARDS NOTED.**

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. KEEP OUT OF LOW AREAS. WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. ENSURE ADEQUATE VENTILATION. LOCAL AUTHORITIES SHOULD BE ADVISED IF SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION, SEE SECTION 8 OF THE SDS.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

STOP THE FLOW OF MATERIAL, IF THIS IS WITHOUT RISK. PREVENT ENTRY INTO WATERWAYS, SEWER, BASEMENTS OR CONFINED AREAS. FOLLOWING PRODUCT RECOVERY, FLUSH AREA WITH WATER. FOR WASTE DISPOSAL, SEE SECTION 13 OF THE SDS.

ENVIRONMENTAL PRECAUTIONS**Avoid discharge into drains, water courses or onto the ground.**

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. AVOID PROLONGED EXPOSURE. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

STORE LOCKED UP. STORE IN ORIGINAL TIGHTLY CLOSED CONTAINER. STORE AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10 OF THE SDS).

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS**1.US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

MATERIAL	TYPE	VALUE
Sodium Hydroxide, Solid (CAS 1310-73-2)	PEL	2 mg/m ³

2.US. ACGIH Threshold Limit Values

MATERIAL	TYPE	VALUE
Sodium Hydroxide, Solid	Ceiling	2 mg/m ³

(CAS 1310-73-2)

3.US. NIOSH: Pocket Guide to Chemical Hazards

MATERIAL	TYPE	VALUE
Sodium Hydroxide, Solid	Ceiling	2 mg/m ³

(CAS 1310-73-2)

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/Face protection	Wear safety glasses with side shields (or goggles) and a face shield.
Skin protection	Hand protection Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing.
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and Chemical Properties**Appearance**

Physical state	Solid.
Form	Solid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	12 0.05% wt/wt solution
Melting point/freezing point	613.4 °F (323 °C)
Initial boiling point and boiling range	2530.4 °F (1388 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	< 0.0000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	1110 g/l
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.

DECOMPOSITION TEMPERATURE	NOT AVAILABLE.
Viscosity	NOT AVAILABLE.
OTHER INFORMATION	
Density	2.13 g/cm ³ ESTIMATED
DYNAMIC VISCOSITY	4 mPa.s
DYNAMIC VISCOSITY TEMPERATURE	662 °F (350 °C)
KINEMATIC VISCOSITY	1.878 mm ² /s ESTIMATED
MOLECULAR FORMULA	H-NA-O
MOLECULAR WEIGHT	40 g/mol
SPECIFIC GRAVITY	2.13 AT 25 °C

10. Stability AND Reactivity

Reactivity	REACTS VIOLENTLY WITH STRONG ACIDS. THIS PRODUCT MAY REACT WITH OXIDIZING AGENTS.
Chemical stability	MATERIAL IS STABLE UNDER NORMAL CONDITIONS.
Possibility of HAZARDOUS REACTIONS CONDITIONS TO AVOID	HAZARDOUS POLYMERIZATION DOES NOT OCCUR. DO NOT MIX WITH OTHER CHEMICALS. CONTACT WITH INCOMPATIBLE MATERIALS.
INCOMPATIBLE MATERIALS	Acids. Oxidizing AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS	NO HAZARDOUS DECOMPOSITION PRODUCTS ARE KNOWN.

11. Toxicology INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE

INHALATION	MAY CAUSE IRRITATION TO THE RESPIRATORY SYSTEM. PROLONGED INHALATION MAY BE HARMFUL.
SKIN CONTACT	CAUSES SEVERE SKIN BURNS.
EYE CONTACT	CAUSES SERIOUS EYE DAMAGE.
INGESTION	CAUSES DIGESTIVE TRACT BURNS.
Symptoms related to the physical, chemical and toxicological characteristics	BURNING PAIN AND SEVERE CORROSIVE SKIN DAMAGE. CAUSES SERIOUS EYE DAMAGE. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. PERMANENT EYE DAMAGE INCLUDING BLINDNESS COULD RESULT.

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY	NOT AVAILABLE.
SKIN CORROSION/IRRITATION	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
SERIOUS EYE DAMAGE/EYE IRRITATION	CAUSES SERIOUS EYE DAMAGE.

Respiratory OR skin SENSITIZATION

RESPIRATORY SENSITIZATION	NOT AVAILABLE.
SKIN SENSITIZATION	THIS PRODUCT IS NOT EXPECTED TO CAUSE SKIN SENSITIZATION.
GERM CELL MUTAGENICITY	NO DATA AVAILABLE TO INDICATE PRODUCT OR ANY COMPONENTS PRESENT AT GREATER THAN 0.1% ARE MUTAGENIC OR GENOTOXIC.
CARCINOGENICITY	THIS PRODUCT IS NOT CONSIDERED TO BE A CARCINOGEN BY IARC, ACGIH, NTP, OR OSHA.

**OSHA Specifically Regulated
Substances (29 CFR
1910.1001-1050)**

**Reproductive toxicity
Specific target organ toxicity -
single exposure
Specific target organ toxicity -
repeated exposure
Aspiration hazard
Chronic effects P**

Not listed.

**This product is not expected to cause reproductive or developmental effects.
Not classified.**

Not classified.

Not available.

prolonged inhalation may be harmful.

12. Ecological Information

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this product.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT

UN number

UN1823

UN proper shipping name

Sodium hydroxide, solid

Transport hazard class(es)

Class

8

Subsidiary risk

-

Label(s)

8

Packing group II

	SPECIAL PRECAUTIONS FOR USER	Read safety instructions, SDS and emergency procedures before handling.
	SPECIAL PROVISIONS	IB8, IP2, IP4, T3, TP33
	PACKAGING EXCEPTIONS	154
	PACKAGING NON BULK	212
	PACKAGING BULK	240
IATA	UN NUMBER	UN1823
	UN PROPER SHIPPING NAME	Sodium hydroxide, solid
	TRANSPORT HAZARD CLASS(ES)	
	Class	8
	Subsidiary risk	-
	Packing group II	
	ENVIRONMENTAL HAZARDS	No.
	ERG Code	8L
	SPECIAL PRECAUTIONS FOR USER	Read safety instructions, SDS and emergency procedures before handling.
	OTHER INFORMATION	
	PASSENGER AND CARGO AIRCRAFT	Allowed.
	CARGO AIRCRAFT ONLY	Allowed.
IMDG	UN NUMBER	UN1823
	UN PROPER SHIPPING NAME	SODIUM HYDROXIDE, SOLID
	TRANSPORT HAZARD CLASS(ES)	
	Class	8
	Subsidiary risk	-
	Packing group II	
	ENVIRONMENTAL HAZARDS	No.
	MARINE POLLUTANT	F-A, S-B
	EmS	
	SPECIAL PRECAUTIONS FOR USER	Read safety instructions, SDS and emergency procedures before handling.
	TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not applicable.
	DOT	



IATA; IMDG

15. REGULATORY INFORMATION

US federal regulations

This product is a "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

ALL COMPONENTS ARE ON THE U.S. EPA TSCA INVENTORY LIST.

TSCA SECTION 12(b) EXPORT NOTIFICATION (40 CFR 707, Subpt. D)

NOT REGULATED.

CERCLA HAZARDOUS SUBSTANCE LIST (40 CFR 302.4)

Sodium Hydroxide, Solid (CAS 1310-73-2) Listed.

SARA 304 EMERGENCY RELEASE NOTIFICATION

NOT REGULATED.

OSHA SPECIFICALLY REGULATED SUBSTANCES (29 CFR 1910.1001-1050)

NOT LISTED.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) HAZARD CATEGORIES

IMMEDIATE HAZARD - YES

DELAYED HAZARD - NO

FIRE HAZARD - NO

PRESSURE HAZARD - NO

REACTIVITY HAZARD - NO

SARA 302 EXTREMELY HAZARDOUS SUBSTANCE

NOT LISTED.

SARA 311/312 HAZARDOUS CHEMICAL

YES

SARA 313 (TRI REPORTING)

NOT REGULATED.

OTHER FEDERAL REGULATIONS

CLEAN AIR ACT (CAA) SECTION 112 HAZARDOUS AIR POLLUTANTS (HAPs) LIST

NOT REGULATED.

CLEAN AIR ACT (CAA) SECTION 112(R) ACCIDENTAL RELEASE PREVENTION (40 CFR 68.130)

NOT REGULATED.

CLEAN WATER ACT (CWA) SECTION 112(R) (40 CFR 68.130)

HAZARDOUS SUBSTANCE

SAFE DRINKING WATER ACT (SDWA)

NOT REGULATED.

FOOD AND DRUG

TOTAL FOOD ADDITIVE

ADMINISTRATION (FDA)

DIRECT FOOD ADDITIVE, GRAS FOOD ADDITIVE

US STATE REGULATIONS

US. CALIFORNIA CONTROLLED SUBSTANCES. CA DEPARTMENT OF JUSTICE (CALIFORNIA HEALTH AND SAFETY CODE SECTION 11100)

NOT LISTED.

US. MASSACHUSETTS RTK - SUBSTANCE LIST

Sodium Hydroxide, Solid (CAS 1310-73-2)

US. NEW JERSEY WORKER AND COMMUNITY RIGHT-TO-KNOW ACT

Sodium Hydroxide, Solid (CAS 1310-73-2)

US. PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW LAW

Sodium Hydroxide, Solid (CAS 1310-73-2)

US. RHODE ISLAND RTK

Sodium Hydroxide, Solid (CAS 1310-73-2)

US. California Proposition 65

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 PROPOSITION 65): THIS MATERIAL IS NOT KNOWN TO CONTAIN ANY CHEMICALS CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE TOXINS.

16. OTHER INFORMATION

ISSUE DATE 06-1-2016

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DISCLAIMER The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.