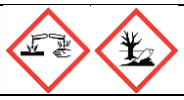
MATERIAL SAFETY DATA SHEET
Sodium hypochlorite solution (10%)

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	**Product identifiers**		
	Product name	:	Sodium hypochlorite solution
	Brand	:	LABORT
	CAS-No.	:	7681-52-9
1.2	**Relevant identified uses of the substance or mixture and uses advised against**		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	**Details of the supplier of the safety data sheet**		
	LABORT FINE CHEM PVT LTD. 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROAD, SURAT - 395007, (GUJARAT), INDIA. **PH:** 0091-261-2725761; 2725388 **FAX:** 0091-261-2725388 **E MAIL:** info@laboratorychemical.net **WEBSITE:** www.laboratorychemical.net		
1.4	**Emergency telephone number**		
	Emergency Phone #	:	**091-261-2725388**
SECTION 2: Hazards identification			
2.1	**Classification of the substance or mixture**		
	Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318 Short-term (acute) aquatic hazard (Category 1), H400		
2.2	**Label elements**		
	Labelling according Regulation (EC) No 1272/2008		
	Pictogram	:	
	Signal word	:	Danger
	Hazard statement(s)		
	H315 Causes skin irritation. H318 Causes serious eye damage. H400 Very toxic to aquatic life.		
	Precautionary statement(s)		

	P273 Avoid release to the environment. P280 Wear eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 + P310 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/doctor.			
	Supplemental Hazard statements			
	none			
2.3	**Other hazards**			
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
SECTION 3: Composition/information on ingredients				
3.2	**Mixtures**			
	Formula	**:**	NaOCl	
	Molecular weight	**:**	74,44 g/mol	
	Component	Classification		Concentration
	Sodium hypochlorite solution			
	CAS-No. EC-No. Index-No. 7681-52-9 231-668-3 017-011-00-1	Skin Corr. 1B; Aquatic Acute 1; H314, H400 Concentration limits: >= 10%: , EUH031; M-Factor - Aquatic Acute: 10		>= 10 - < 15 %
SECTION 4: First aid measures				
4.1	**Description of first aid measures**			
	General advice Consult a physician. Show this safety data sheet to the doctor in attendance. **If inhaled** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **In case of skin contact** Wash off with soap and plenty of water. Consult a physician. **In case of eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
4.2	**Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11			
4.3	**Indication of any immediate medical attention and special treatment needed** No data available			
SECTION 5: Firefighting measures				
5.1	**Extinguishing media** **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.			
5.2	**Special hazards arising from the substance or mixture** Chlorine, Hydrogen chloride gas, Sodium oxides Hydrogen chloride gas, Sodium oxides			
5.3	**Advice for firefighters** Wear self-contained breathing apparatus for firefighting if necessary.			

5.4	**Further information** No data available
SECTION 6: Accidental release measures	
6.1	**Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.
6.2	**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3	**Methods and materials for containment and cleaning up** Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
6.4	**Reference to other sections** For disposal see section 13.
SECTION 7: Handling and storage	
7.1	**Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.
7.2	**Conditions for safe storage, including any incompatibilities** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Recommended storage temperature 2 - 8 °C
7.3	**Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	
8.1	**Control parameters**
	Components with workplace control parameters
8.2	**Exposure control**
	Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. **Personal protective equipment** **Eye/face protection** Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). **Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Splash contact Material: Nitrile rubber

	Minimum layer thickness: 0,11 mm Break through time: 480 min **Body Protection** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). **Control of environmental exposure** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SECTION 9: Physical and chemical properties

9.1	**Information on basic physical and chemical properties**	
	Appearance Form	Form: liquid
	Odour	No data available
	Odour Threshold	No data available
	pH	No data available
	Melting point/freezing point	No data available
	Initial boiling point and boiling range	No data available
	Flash point	Not applicable
	Evaporation rate	No data available
	Flammability (solid, gas)	No data available
	Upper/lower flammability or explosive limits	No data available
	Vapour pressure	23,3 hPa at 20 °C
	Vapour density	No data available
	Relative density	1,19 g/mL at 25 °C
	Water solubility	No data available
	Partition coefficient: noctanol/water	No data available
	Auto-ignition temperature	No data available
	Decomposition temperature	No data available
	Viscosity	No data available
	Explosive properties	No data available
	Oxidizing properties	No data available

9.2	**Other safety information**	No data available

SECTION 10: Stability and reactivity

10.1	**Reactivity** No data available
10.2	**Chemical stability** Stable under recommended storage conditions.
10.3	**Possibility of hazardous reactions** No data available
10.4	**Conditions to avoid** No data available
10.5	**Incompatible materials** Acids
10.6	**Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Chlorine, Hydrogen chloride gas, Sodium oxides Other decomposition products - No data available Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Sodium oxides In the event of fire: see section 5

SECTION 11: Toxicological information

11.1	**Information on toxicological effects** **Acute toxicity** No data available **Skin corrosion/irritation** No data available **Serious eye damage/eye irritation** No data available **Respiratory or skin sensitisation** No data available **Germ cell mutagenicity** No data available **Carcinogenicity** IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** No data available **Specific target organ toxicity - single exposure** No data available **Specific target organ toxicity - repeated exposure** No data available **Aspiration hazard** No data available **Additional Information** RTECS: Not available

SECTION 12: Ecological information

12.1	**Toxicity** No data available

12.2	**Persistence and degradability** No data available.		
12.3	**Bioaccumulative potential** No data available.		
12.4	**Mobility in soil** No data available		
12.5	**Results of PBT and vPvB assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6	**Other adverse effects** Very toxic to aquatic life with long lasting effects.		
SECTION 13: Disposal considerations			
13.1	**Waste treatment methods**		
	Product Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. **Contaminated packaging** Dispose of as unused product.		
SECTION 14: Transport information			
14.1	**UN number**		
	ADR/RID: 3082	IMDG: 3082	IATA: 3082
14.2	**UN proper shipping name**		
	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium hypochlorite solution) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Sodium hypochlorite solution) IATA: Environmentally hazardous substance, liquid, n.o.s. (Sodium hypochlorite solution)		
14.3	**Transport hazard class(es)**		
	ADR/RID: 9	IMDG: 9	IATA: 9
14.4	**Packaging group**		
	ADR/RID: III	IMDG: III	IATA: III
14.5	**Environmental hazards**		
	ADR/RID: yes	IMDG Marine pollutant: no	IATA: yes
14.6	**Special precautions for user** **Further information** EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.		
SECTION 15: Regulatory information			
15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture** This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. REACH - Restrictions on the manufacture, placing on the market and use of certain :		

	dangerous substances, preparations and articles (Annex XVII)
15.2	**Chemical safety assessment** For this product a chemical safety assessment was not carried out
SECTION 16: Other information	
	Further information LABORT FINE CHEM PVT LTD. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. LABORT FINE CHEM PVT LTD. Makes no representations or warranties, either express or implied, including without limitation any warranties or merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, LABORT FINE CHEM PVT LTD. will not be responsible for damages resulting from use of or reliance upon this information. Revised on: 04/01/21 Revision: 01