MATERIAL SAFETY DATA SHEET

1	**IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**	
1.1	**Product identifiers**	
	Product Name	Sodium formaldehyde bisulfite
	CAS NO.	870-72-4
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**	
	COMPANY	DR. J. PHARMACHEM (INDIA)
		722/AB/15 'NIRMAL',LAXMI PARK COLONY,
		NAVI PETH , PUNE- 411 030.INDIA
		Telephone : 020-24530071
		Fax : 020-24530110
2	**HAZARDS IDENTIFICATION**	
2.1	**Classification of the substance or mixture**	
	Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.	
	This substance is not classified as dangerous according to Directive 67/548/EEC.	
2.2	**Label elements**	
	The product does not need to be labelled in accordance with EC directives or respective national laws.	
2.3	**Other hazards**	None
3	**COMPOSITION/INFORMATION ON INGREDIENTS**	
3.1	**Substances**	
	Synonyms	Formaldehyde-sodium bisulfite adduct
	Formula	CH3NaO4S
	Molecular Weight	134,09 g/mol
	Component	**Concentration**
	Sodium formaldehyde bisulfite	Min 98%
	Other unknown impurities	Up to 2%
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	Flush eyes with water as a precaution
	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**	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	**Indication of any immediate medical attention and special treatment needed**	
	No data available	
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**	Carbon oxides, Sulphur oxides, Sodium oxides
5.3	**Advice for firefighters**	Wear self contained breathing apparatus for firefighting if necessary
5.4	**Further information**	No data available
6	**ACCIDENTAL RELEASE MEASURES**	
6.1	**Personal precautions, protective equipment and emergency procedures**	
	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Avoid breathing dust.	
6.2	**Environmental precautions**	
	Do not let product enter drains	
6.3	**Methods and materials for containment and cleaning up**	
	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.	
6.4	**Reference to other sections**	
	For disposal see section 13.	
7	**HANDLING AND STORAGE**	
7.1	**Precautions for safe handling**	
	Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.	
7.2	**Conditions for safe storage, including any incompatibilities**	
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.	
7.3	**Specific end uses**	
	no data available	
8	**EXPOSURE CONTROLS/PERSONAL PROTECTION**	
8.1	**Control parameters**	
	Components with workplace control parameter	
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	
	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 EU Directive 89/686/EEC and the standard EN 374 derived from it.	
	Body Protection	
	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.	
	Respiratory protection	
	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
9	**PHYSICAL AND CHEMICAL PROPERTIES**	
9.1	**Information on basic physical and chemical properties**	
a)	Appearance	Form: Solid
b)	Odour	Odourless
c)	Odour Threshold	No data available
d)	pH (10% soln)	7 – 7.5
e)	Melting range/freezing range	200˚C
f)	Initial boiling point and boiling range	No data available
g)	Flash point	184 ℃
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Density	No data available
m)	Relative density	No data available
n)	Water solubility	800 g/L (20 ºC)
o)	Partition coefficient: noctanol/water	No data available
p)	Autoignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
9.2	**Other safety information**	
	IUPAC Name	Hydroxy methane sulfonic acid
	Molecular Formula	CH3NaO4S
	Molecular Weight	134.09 g/mol
	SMILES	[Na+].OCS(=O)(=O)[O-]
	InChI	1S/CH4O4S.Na/c2-1-6(3,4)5;/h2H,1H2,(H,3,4,5);/q;+1/p-1

	EINECS	212-800-9
10	**STABILITY AND REACTIVITY**	
10.1	**Reactivity**	No data available
10.2	**Chemical stability**	No data available
10.3	**Possibility of hazardous reactions**	No data available
10.4	**Conditions to avoid**	No data available
10.5	**Incompatible materials**	Do not store near acids., Strong oxidizing agents
10.6	**Hazardous decomposition products**	Other decomposition products-no data available
11	**TOXICOLOGICAL INFORMATION**	
11.1	**Information on toxicological effects**	
	Acute toxicity	LD50 Oral - rat - 3.200 mg/kg
	Skin corrosion/irritation	No data available
	Serious eye damage/eye irritation	No data available
	Respiratory or skin sensitization	No data available
	Germ cell mutagenicity	No data available
	Carcinogenicity	IARC: No components 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
	Potential health effects	
	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
	Ingestion	May be harmful if swallowed.
	Skin	May be harmful if absorbed through skin. May cause skin irritation.
	Eyes	May cause eye irritation.
	Signs and Symptoms of Exposure	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	Additional Information	
	RTECS: PB2200000	
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**	No data available
12.6	**Other**	No data available
13	**DISPOSAL CONSIDERATIONS**	
13.1	**Waste treatment methods**	

	Product		
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.		
	Contaminated packaging		
	Dispose of as unused product.		
14	**TRANSPORT INFORMATION**		
14.1	**UN number**		
	ADR/RID	IMDG	IATA
	-	-	-
14.2	**UN proper shipping name**		
	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	**Transport hazard class(es)**		
	ADR/RID	IMDG	IATA
	-	-	-
14.4	**Packaging group**		
	ADR/RID	IMDG	IATA
	-	-	-
14.5	**Environmental hazards**		
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6	**Special precautions for user**		
	no data available		
15	**REGULATORY INFORMATION**		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	**Safety, health and environmental regulations/legislation specific for the substance or mixture**		
	no data available		
15.2	**Chemical Safety Assessment**		
	no data available		
16	**OTHER INFORMATION**		
	Further information		
	The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale. Month of Creation : October 2013 Month of Revision : October 2016		