MATERIALS SAFETY DATA SHEET

SAFETY DATA SHEET

1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product Name: **CONPLAST SD400**

Application: Accelerating admixture for blocks.

Company: **Fosroc Limited**

Address: Coleshill Road, Tamworth, Staffordshire. B78 3TL

Telephone: 01827 262222 (Out of Hours) 01827 265279 Fax: 01827 262444

2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition: aqueous solution of sodium nitrite, surfactant.

Hazardous Ingredient(s)	Symbol	Risk Phrases	Other Information	%
sodium nitrite	O,T	R25, 8	Cas No: 7632-00-0	>25 <50

All constituents of this product are listed in EINECS (European Inventory of Existing Commercial Chemical Substances) or ELINCS (European List of New Chemical Substances) or are exempt.

Refer to Section 8 for Occupational Exposure Limits.

3: HAZARDS IDENTIFICATION

Toxic if swallowed.
Contact with combustible material may cause fire.

TOXIC

OXIDIZING

4: FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention urgently.

Skin: Wash immediately with soap and water or suitable skin cleanser. Obtain medical attention if irritation persists.

Inhalation: Remove from exposure - unlikely to occur.

Ingestion: Obtain medical attention urgently. Wash out mouth with water. Ensure mouth wash is not swallowed. If product has been swallowed, give 250ml of water to drink.

5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, powder, foam or water.

Special Exposure Hazards: Toxic fumes. Nitrogen compounds.

Special Protective Equipment: Self-contained breathing apparatus.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear rubber boots in addition to the recommended protective clothing.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Decontamination Procedures: Soak up with inert absorbent or contain and remove by best available means. Dispose of as waste. Prior consent must be obtained from the local Water Company if discharged to sewer.

Validation Date: 01.01.2023

7: HANDLING AND STORAGE

Handling: Maintain good standards of personal hygiene. Do not eat, drink or smoke whilst using this product. Do not use near heat sources e.g. welding operations. Avoid skin and eye contact. Wash hands thoroughly after handling this product.

Storage: Store in cool, dry area. Store away from combustible materials. Never leave a container unsealed. Protect from frost. Store away from acids. Keep away from foodstuffs and food containers.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:- None assigned.

Engineering Control Measures: No specific ventilation requirement noted.

Personal Protective Equipment: A high standard of personal hygiene is essential. Do not eat, drink or smoke whilst using this product. Avoid skin and eye contact. Impervious gloves (eg PVC). Safety glasses / Goggles. Change contaminated clothing immediately and clean before re-use. Wash hands thoroughly after handling this product.

9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid.
Colour:	Straw.
Odour:	Odourless.
pH(concentrate):	9.8
Boiling Point/Range (°C):	~100
Flash Point (closed, °C):	None.
Autoflammability (°C):	Not applicable.
Explosive Properties (%):	Not applicable.
Oxidising Properties:	Contains sodium nitrite; when dehydrated will enhance combustion.
Vapour Pressure (kPa at 20°C):	2.3 (water)
Relative Density (at 20°C):	1.26
Water Solubility:	Soluble.

10: STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Temperatures (ºC) below 0.

Materials to Avoid: Strong acids. Strong alkalis. Ammonium salts, amides, nitrogenous fertilisers or other readily oxidisable substances. When mixed with acids or other admixtures, toxic fumes (NO_x) are evolved.

Hazardous Decomposition Products: Thermal decomposition:- Nitrogen compounds.

11: TOXICOLOGICAL INFORMATION

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.
Oral LD50, rat 85mg/kg

Health Effects

On Eyes: Irritating, but does not injure eye tissue.

On Skin: Moderately irritating. May be absorbed through the skin.

By Inhalation: Low volatility makes inhalation unlikely at ambient temperatures.

By Ingestion: Toxic if swallowed. Ingestion of significant amounts will result in severe systemic effects unless medical treatment is obtained promptly.

Other: Systemic effects due to ingestion may include greyish-blue discolouration of the skin and mucous membrane (methaemoglobinaemia), fainting, vomiting and unconsciousness..

12: ECOLOGICAL INFORMATION

Environmental Assessment:	When used and disposed of as intended, no adverse environmental effects are foreseen.
Mobility:	Mobile liquid. Soluble in water.
Persistence and Degradability:	Not applicable.
Bioaccumulative Potential:	Not determined.
Ecotoxicity:	Expected to be ecotoxic to fish/daphnia/algae.

13: DISPOSAL CONSIDERATIONS

Disposal must be in accordance with local and national legislation.

Unused Product:	Dispose of through an authorised waste contractor to a licensed site.
Used/Contaminated Product:	As for Unused product.
Packaging:	The method of disposal must be acceptable to the local authority.

14: TRANSPORT INFORMATION

UN Number: 3099

IMO:	Class: 5.1 / 6.1	Packing Group:	III	Marine Pollutant:	No
IATA/ICAO:	Class: 5.1 / 6.1	Packing Group:	III		
ADR:	Class: 5.1	Item:	30(c)		

Transport Name: Oxidizing liquid, toxic, nos. (Sodium nitrite solution)

Hazchem/Kemler Code: 2W / 56

15: REGULATORY INFORMATION

Hazard Label Data:-

Named Ingredients:	sodium nitrite solution
UN Number:	3099
Symbol(s):	T,O
Risk Phrases:	Toxic if swallowed. Contact with combustible material may cause fire. Contact with acids liberates toxic gas.
Safety Phrases:	Keep away from combustible material. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
EC Directives:	Dangerous Substances Directive, 67/548/EEC and adaptations. Dangerous Preparations Directive, 88/379/EEC. Safety Data Sheets Directive, 91/155/EEC.
Statutory Instruments:	Chemicals (Hazard Information and Packaging for Supply) (Amendment) Regs. 1996 (SI 1092). Control of Substances Hazardous to Health Regs. 1994 (SI 3246). Health & Safety at Work, etc. Act 1974.
Codes of Practice:	Waste Management. The Duty of Care.

The above publications are available from HMSO

16: OTHER INFORMATION

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for applications other than as stated in this sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from Fosroc Ltd.

If this product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to secure that any person handling or using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from Fosroc Limited.