



1. Identification of the substance/mixture and basic company information

Trade Name	:	CCW 5
Chemical Formula	:	Formulated Chemical
Manufacture / Supplied by	:	Cernol Chemicals (Namibia) (Pty) Ltd P O Box 22880, Windhoek, Namibia
Emergency telephone number	:	0024641-262 985 (International)

2. Composition and information of ingredients

Application	:	Closed cooling water treatment
Chemicals names	:	Contains Sodium Nitrite CAS No. 763-20-00, Sodium Nitrate CAS No. 7631-99-4, Sodium hydroxide CAS No. 1310-73-2, Sodium-2 mercaptobenothiazole CAS No. 2492-26-4, Disodium tetraborate CAS No 12045-88-4

3. Hazards identification

Physical/Chemical hazards	:	Xn R 21 Harmful in contact with skin.
Human health hazards	:	Eye irritant. Lung irritant. Over exposure can result in death.

4. First aid measures

Eye contact	:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin contact	:	In case of contact, immediately flush with water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before re-use. Get medical attention.
Inhalation	:	If inhaled, remove to victim fresh air. If not breathing, give artificial Respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.
Ingestion	:	If swallowed do NOT induce vomiting unless directed to do by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

5. Fire fighting measures

Extinguishing media:

Suitable	:	Not expected to burn. Use extinguishing media suitable for Surrounding materials.
Unusual fire/explosion hazards	:	Not expected to burn. If product is allowed to dry, the sodium nitrite can initiate the combustion of other materials.
Hazardous thermal (de)composition products	:	Decomposition products may include carbon oxides and nitrogen oxides.
Special fire-fighting procedures	:	nitrogen oxides.
Protection of fire-fighters	:	Fire fighters should wear positive pressure self-contained Breathing apparatus and full turnout gear.

6. Accidental release measures

Personal precautions	:	Splash goggles. Full suit. Vapour respirator. Boots. Gloves.
Environmental precautions and Clean-up methods	:	Spill absorb with dry earth, sand or other non- combustible Material. Place in an appropriate waste disposal container. Wash site of spillage thoroughly with water.

7. Handling and storage

Handling	:	Keep away from heat. Keep away from source of ignition. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.
Storage	:	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark of flames).
Packaging material	:	Use original container.

8. Exposure controls and personal protection

Engineering measures	:	Good general ventilation.
Hygiene measures	:	Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of the day.

Personal protective		
Respiratory system	:	Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Skin and body	:	Overalls.
Hands	:	Neoprene gloves or Nitrile gloves.
Eyes	:	Splash goggles.

9. Physical and chemical properties

Physical state	:	Liquid.
Color	:	Clear to slightly hazy red
S.G.	:	1.14 \approx 0.02
Odor	:	Odorless
Odor Threshold	:	Not applicable.
Boiling point	:	100.50 degree Celsius
Melting point	:	minus 28 degree
Density	:	N/A
(butyl acetate 1)	:	N/A
Solubility	:	N/A
Octanol/water partition	:	N/A
Flash point	:	N/A
Fire hazards in presence of		
Various substances	:	Not flammable.
Auto ignition temperature	:	N/A
Explosive properties	:	N/A
Lower explosion limit	:	N/A
Viscosity	:	N/A
pH	:	10 -11

10. Stability and reactivity

Stability	:	The product is stable.
Conditions to avoid	:	Avoid freezing temperatures.
Materials to avoid	:	Avoid Acids, organic material and reducing agents. Incompatible with strong acids.

11. Toxicological information

Skin irritation	:	Can cause moderate irritation.
Eye irritation	:	Can cause moderate irritation.
Acute toxicity	:	LD 50 3362 mg/kg oral rat.
Chronic toxicity	:	No additional remark.



12. Ecological information

Ecotoxicity : Harmful to aquatic organisms

13. Disposal considerations

Disposal consideration : DO NOT RE-USE CONTAINERS. Puncture all plastic containers. Flatten all metal containers.

Methods of disposal : Recover or recycle if possible, otherwise incineration.

Water classification : No additional remark.

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste. Product should be solidified with inert material before disposal to waste landfill.

14. Transport information

N/A

15. Regulatory information

Classification : Irritant.

Risk Phrases : Irritating to eyes and skin.

Safety Phrases : Avoid exposure. Wear suitable protective clothing and gloves.

16. Other information

The information and recommendations presented in this document are to be best of our knowledge and belief accurate and reliable, but do not constitute a warranty. None of our representatives or agents are authorised to give any guarantee or warranty or make any representation in addition or contrary to the above, and we do not accept any liability for claims of any kind for any loss including, without limitation.

Ref 08/16 Technical Department