

# Safety Data Sheet

## PMI – SC3™

Date of Issue : 09.10.2019

Replaces : -

Valid no longer than : 08.10.2023

### 1. Chemical product and company identification

<b>Supplier :</b>  <b>Well Engineering &amp; Technology Sdn Bhd</b> Level 10, Menara Weld No. 76 Jln Raja Chulan 50200 Kuala Lumpur	<b>Product Identity :</b>  <b>PMI – SC3™</b>
Tel : +603 2026 6787 Fax : +603 2034 2199 Email : <a href="mailto:welltech@welltechengineering.com">welltech@welltechengineering.com</a>	<b>Use :</b> Product for use to neutralise Hydrogen Sulphide (H <sub>2</sub> S) in oilfield drilling and production operations.

### 2. Composition / information on ingredients

This is a proprietary formulation and falls within the definition of Confidential Business Information within the GHS definition and can only be divulged under appropriate non-disclosure and confidentiality agreements.

All ingredients used in the formulation are REACH registered

### 3. Hazards Identification

Classification of the mixture:

Strongly caustic. Harmful if in contact with skin and mucous membranes. Causes severe skin burns and eye damage. May cause respiratory damage if inhaled.



#### 4. First Aid Measures

Inhalation	The substance is strongly corrosive to skin and mucous membranes. Can cause oedema of the lungs. May cause burns to the mouth and oesophagus. Remove patient to rest in fresh air. Call medical attention without delay.
Ingestion	Corrosive. Will cause burns to the mouth and oesophagus. Wash out mouth with fresh water, Move to fresh air. Give copious amount of water to drink Call doctor without delay
Skin contact	Corrosive. Will cause burns. Immediately wash with soap and water and rinse thoroughly. Call doctor if problems persist
Eye contact	Vapours cause eye irritation. Splashes cause severe irritation, possible corneal burns and eye damage. Hold eyes open, remove contact lenses and rinse thoroughly with fresh water. In the event of discomfort continuing call a doctor.
Special health Precautions	Immediately remove any contaminated clothing. Do not eat, smoke or drink without washing hands

#### 5. Fire Fighting Measures

Conditions of flammability	Excessive heat surrounding heat will cause noxious vapours
Suitable extinguishing media:	Although this material is not combustible containers must be protected against fire so use extinguishing media suitable for controlling a local fire. Provided it will not spread the fire, use water to keep the containers cool
Hazardous combustion products	None expected
Explosion data	Contact with strong oxidizers may cause fire or explosion. Vapours can flow along surfaces to distant ignition source and flash back.
Fire fighting procedures	Use fire fighting measures that suit the environment. Wear full, self contained protective wear. Do not inhale fumes and vapours.

#### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Fully contain the spill. Block all drains. Recover liquid when possible. Do not allow to enter drains, water ways, open areas of water or soak into the ground. Collect liquid in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a hazardous chemical waste container. Do not use combustible materials, such as sawdust. Rinse with copious amounts of water if small spillage occurred. Expended or used material may be disposed of down sewer with water flush.

## 7. Handling and Storage

Store in sealed containers away from direct sunlight. Never store partially used containers to prevent loss of activity through oxidation. Avoid high temperatures; no special requirements for segregation from other products apply (but see Section 10). Take great care to avoid spillage and seal used containers for disposal by a licensed waste disposal contractor. Always wear appropriate PPE

## 8. Exposure Controls / Personal Protection

CLOTHING/EQUIPMENT	REQUIRED?	DETAILS
Protective clothing	Yes	Alkaline Chemical resistant gloves, overalls, boots and rubber apron
Respiratory protection	Yes	Always use in well ventilated workplace. Wear NIOSH approved breathing apparatus in the event of a mist or aerosol being present.
Hand protection	Yes	impermeable gloves, PVC or similar (e.g. to EN 374-3).
Eye protection	Yes	Goggles, face shield or safety glasses with side-shields (to EN 166).

Eyebath and safety shower must be in the work areas

## 9. Physical & Chemical Properties

Appearance	Clear liquid
Odour	None
pH: 20°C	14
Boiling point	125°C
Melting point	N/A
Flash point	Not applicable
Decomposition temp	Not determined
Auto ignition temp	None
Solubility (water)	Fully miscible
Vapour Pressure 20°C	23hPa (17mm Hg)
Density: 20°C	1.36

## 10. Stability & Reactivity Data

Stability	Stable when kept in original packaging in recommended conditions
Avoid contact with	Strong oxidising agents, acids, aluminum, zinc, tin or lead. Reacts with ammonium salts to produce ammonia.
Incompatible materials	Finely powdered metals, strong acids, ammonium salts and nitrogen
	Corrosive to aluminum, other light metals and their alloys
Decomposition products	Oxides of carbon.

## 11. Toxicological Information

Acute oral toxicity	Strong caustic effect on skin of mouth and digestive tract
Repeat-dose toxicity	No information
Inhalation	Inhalation of aerosol might cause lung edema. Irritation of throat and mucous membranes
Skin Irritation	Strong caustic effect
In the eye	Strong caustic effect
Mutagenicity	No information
Other available toxicity data	Corrosive, harmful

## 12. Ecological Information

Given the water solubility of the product, mobility in the aqueous environment is expected to be high. Organic product components show limited biodegradability (not readily biodegradable).

No significant bioaccumulation potential is predicted.

The formulated product has not been tested but moderate ecotoxicity is expected, based on known or predicted properties of the product ingredients.


Mobility	Soluble in water, so likely to be mobile in soil.
Bioaccumulation	This material is not expected to significantly bioaccumulate.
Biodegradability	No information on biodegradability. When released to water, this material is expected to quickly evaporate.
Toxicity	No information. But use best practice to avoid any leakage into water systems or the aquatic environment.

### 13. Disposal Considerations

Pure material	Must only be disposed of through licensed waste disposal contractor.
Contaminated sand, etc	Must only be disposed of through licensed waste disposal contractor
Packaging	Containers remain hazardous. Consult drum reconditioner


Disposers must comply with all relevant statutory requirements.

### 14. Transport Information

UN No	3266
HS Code	38249996
DOT, IMDG, IATA	CORROSIVE LIQUID, BASIC, ORGANIC,NOS
ADR	3266,CORROSIVE LIQUID,BASIC,ORGANIC NOS (contains Hydroxyl)
Packing group	II
Labelling	 Corrosive Substance, Class 8

The listed transportation classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptions.

### 15. Regulatory Information

Danger indication and symbol	
Risk phrases	R22 - Harmful if swallowed. Corrosive. Causes severe burns.
Safety phrases	S7/8 - Keep container tightly closed and dry S7/9 - Keep container tightly closed and well-ventilated place S23 - Do not breath gas/fumes/vapours S36/37/39 - Wear suitable protective clothing, gloves and eyes/ face protection Avoid contact with skin and eyes.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risk as required by other health and safety legislation. The user is reminded of the requirement to comply with the provisions of the Health and Safety at Work Act and the Control of Substances Hazardous to Health Regulations.

## 16. Other Information

Training:	users should ensure that personnel are trained in the correct use of this product.
Recommended uses:	this product is supplied for the purposes notified to the customer on the data sheet. Its suitability or safety for use in any other circumstances cannot be warranted.
Technical advice:	the user should contact the supplier if further advice is required.
Sources of data:	this data sheet is compiled from laboratory analysis of the material and from published sources considered reliable.

Caution: The user should conduct his/her own experiments and establish proper procedures and control before attempting use on critical parts.

The information contained herein is given in good faith and is based on current knowledge and experience: no responsibility is accepted that the information is sufficient or correct in all cases. Users should consider these data only as a supplement to other information obtained by the user. No warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. This information is furnished upon the condition the person receiving it shall determine the suitability for the particular purpose. This MSDS is to be used as a guideline for safe work practices and emergency response.

### **THIS SAFETY DATA SHEET IS VERSION 10**

**ISSUE DATE: 09/10/2019**

The Supplier identified in Section 2 provides this Safety Data Sheet as required by Directives 91/155/EEC, 93/112/EC and 2001/58/EC, but gives no warranty as to accuracy or completeness. As conditions of use of this product will vary and are outside the control of the Supplier, the obligation to ensure safety in use rests with the user.