MATERIAL SAFETY DATA SHEETS

'SDS NUMBER. MC S-2040

ART NUMBER: MC S-2040

PRODUCT NUMBER: MC S-2040

CAS NUMBER: Blend

TRADE NAMES: CHEMOLENE S-451

CHEMICAL NAME: MC S-2040 Scale Inhibitor

SECTION I						
MANUFACTURER: / VENDOR: Multi-Chem Group, LLC	NFPA HAZARD SCALE	NFPA RATINGS:				
ADDRESS: P. O. Box 2770	4 - Extreme	HEALTH:	2			
4285 Crooked Palm Rd.	3- High	FIRE:	1			
Ventura, CA. 93002	2 - Moderate	REACTIVITY:	0			
EMERGENCY TELEPHONE NUMBER: (800) 535-5053	1 - Slight	Special:	0			
INFORMATION TELEPHONE NUMBER: (805) 648-1195	0 - Insignificant					

DATE PREPARED: 02/14/2006

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION						
CAS NUMBER	HAZARDOUS COMPONENT	Vol %	ACGIH TWA	ACGIH STEL		
34690-00-1	Bishexamethylenetriamine	19-21%				
45927 60 0 D	isthulana Triamina Danta Mathulana Dhasabania	A = 1.1				

15827-60-8 Diethylene Triamine Penta-Methylene Phosphonic Acid

^{*} Denotes a chemical subject to the reporting requirements of SARA Title 111 section 313 of 1986 and 40 CFR part 132

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS					
BOILING POINT	>100F	SPECIFIC GRAVITY (H20 = 1)	1.0400		
VAPOR PRESSURE (mm Hg.)	N/DA	MELTING POINT	N/DA		
APOR DENSITY (AIR = 1)	N/DA	EVAPORATION RATE (Butyl Acetate = 1)	N/DA		

SOLUBILITY IN WATER: Complete

APPEARANCE AND ODOR: Dark amber liquid, Pungent odor

OTHER INFORMATION:

Viscosity Units = N/DA

pH = 4-5.5

Freezing Point = N/DA

Dry Point = N/DA

Density (Lb./Gal.) = 9.17

DANGER

Physical Hazards: -

Generic Name: - Scale Inhibitor

UN/NA Number: -

North American Emergency Response Guide Number: -

DOT Proper Shipping Name: - DOT Not Regulated

DOT Hazard Class:-

DOT Packing Group:-

DOT/CERCLA RQ:-

CHEMICAL NAME: MC S-2040 Scale Inhibitor

SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
"LASH POINT: >200F			FLAMMABL	E LIMITS: LEL: N/AP UEL: N/AP	
_XTINGUISHING MEDIA:	Dry Chemical	CO2	Foam	Use Water Spray or Water Fog for Cooling	

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection - see section V - decomposition products possible.

Wear self-contained breathing apparatus with a full facepiece operated in pressure-demand or other positive pressure mode when fighting fires.

Fight fire from safe distance / protected location.

Heat may build pressure / rupture closed containers, spreading fire, increasing risk of burns / injuries.

Use water spray / fog for cooling.

Notify authorities if liquid enters sewer / public waters.

UNUSUAL FIRE FIGHTING PROCEDURES:

May produce hazardous fumes or hazardous decomposition products

SECTION V - REACTIVITY DATA

STABILITY:

Stable under normal conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong Oxidizing agents, organic materials. Prolonged contact with metals, especially cyanide and sulfides.

HAZARDOUS DECOMPOSITION OF BYPRODUCTS:

Incomplete combustion may release poisonous oxides of carbon, HCI, and oxides of nitrogen and phosphorus.

HAZARDOUS POLYMERIZATION:

Not expected to occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

Inhalation: X

Absorption: X

Ingestion: X

Injection: N/A

Inhalation:

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. Excessive inhalation of vapors can cause severe damage to mucous of respiratory tract

Eye contact:

Although no appropriate human or animal health effects are known to exist, this material is expected to cause destructive damage to eye tissue. Will cause extreme burns and could cause permanent damage.

Skin irritation:

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause severe chemical burns

Ingestion:

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause severe burns of mucous membranes of gastrointestinal tract

Carcinogenicity? NO

NTP? NO

IARC Monograph? NO

OSHA Regulated? NO

SECTION VI - HEALTH HAZARD DATA (Continued)

EALTH HAZARDS (ACUTE AND CHRONIC):

Acute Health Effects:- (Short Term)
Corrosive to all body tissue

Chronic Health Effects:-(Long Term)

Dermatitis. May aggravate existing skin, eyes, and lung conditions

MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE:

Pre-existing eye and skin disorders

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:-

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Eye Contact:-

In case of eye contact, immediately (within 1 minute) rinse with clean water for 20 to 30 minutes. Retract eyelids often. Obtain immediate emergency medical attention.

Skin Contact:-

Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. Obtain immediate medical attention.

Ingestion:-

If large quantity swallowed, give milk if victim is completely conscious and alert. Do not induce vomiting, as risk of damage to lungs exceeds poisoning risk. Obtain immediate emergency medical attention.

Emergency Medical Treatment Procedures:-

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Continue to rinse eyes with clean water for 20 to 30 minutes, retracting eyelids often. Contact ophthalmologist immediately. Treat burns or allergen reactions conventionally after decontamination. Do not induce vomiting.

OTHER HEALTH WARNINGS:

None

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

IMPORTANT: Equip responders with proper protection (see section VIII).

Small Spill: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE continued

Large Spill: Corrosive Liquid

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken or other absorbent material and shoveled into containers.

Prevent run-off into sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

WASTE DISPOSAL METHOD:

Comply with Federal / State / Local regulations for disposal. Contact state and federal regulators to determine whether the material should be classified as a hazardous waste or industrial waste and handled accordingly. Used licensed transporter and disposal facility.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

For transport, handling, and storage, use polyethylene, plastic, lined steel or stainless steel.

Store in tightly closed containers in cool, dry, isolated and well ventilated area away from heat, sources of ignition and incompatible materials.

Use non-sparking tools and explosion proof equipment.

Ground line, containers, and other equipment used during product transfer to reduce the possibility of a static induced spark.

Do not "switch" load (load into containers which previously contained gasoline or other low flash material) because of possible accumulation of a static charge resulting in a source of ignition.

Use good personal hygiene practices.

Containers of this material may be hazardous when emptied, since emptied containers retain residues vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

Store drums with bungs in up position.

OTHER PRECAUTIONS:

Wash thoroughly after handling.

Do not get it in eyes, on skin or on clothing.

Do not breathe dust, vapor, mist or gas.

Keep container closed when not in use.

Empty container may contain hazardous residues.

For industrial use only.

Keep out of reach of children.

Failure to use caution may cause serious injury or illness.

Never siphon by mouth.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS:

Either local exhaust or general room ventilation is usually required.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:-

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

Eye Protection:-

Eye protection such as safety glasses or goggles must be worn when possibility exits for eye contact due to spraying liquid or airborne particles.

Skin Protection:-

When skin contact is possible, protective clothing including gloves, apron, sleeves, boots, safety glasses or goggles should be worn and must be cleaned thoroughly after each use.

SECTION VIII - CONTROL MEASURES continued

ther Hygienic Practices:-

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

Other Work Practices:-

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove clothing and wash thoroughly before reuse.

SECTION IX - REGULATORY INFORMATION

STATUS OF SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight%) to be used for calculations for regulations. Trade secrets are indicated by "TS".

FEDERAL EPA:

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of the release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ's) in the 40 CFR 302.4. Components present in this product which could require reporting under the statute are:

NONE

Superfund Amendments and Reauthorization Act of 1989 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA Section 313). This information must be included in all MSDS's that are copied and distributed for this material. Submission of annual reports of release of toxic chemicals that appear in 40 CFR

372 (for SARA Section 313).

Components present in this product at a level which could require reporting under the statute are:

COMPONENT

CAS NO.

MAXIMUM %

None

SECTION X - SUPPLEMENT

Note: Qualifiers and codes used in this MSDS

EQ = Equal AP = Approximately
< = Less Than >= Greater Than

UK = Unknown N/P = No Applicable Information Found

N/AP = Not Applicable N/DA = No Data Available

SECTION XI - DISCLAIMER

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself.

The information in the MSDS was obtained from sources which we believe are reliable. However, the information is provided without warranty, express or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Communication Standard (29 CFR 1200).