

Material Safety Data Sheet

Revision Date: 1-December- 2011
Replaces: N/A

Section 1 - Chemical Product and Company Identification

Emergency Response No. (800) 255-3924 (ChemTel)

Product/Chemical Name: Entegrate SC8060 WB
Product Description/Use: Winterized Down Hole Scale Inhibitor
Company: U.S. Water Services
330 South Cleveland St
Cambridge, MN 55008

Section 2 – Composition/Information on Ingredients

Emergency Overview:

WARNING! POISON! DANGER! VAPOR HARMFUL. MAY BE FATAL OR CAUSE BLINDNESS IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CANNOT BE MADE NONPOISONOUS. FLAMMABLE LIQUID AND VAPOR. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORYTRACT. AFFECTS CENTRAL NERVOUS SYSTEM AND LIVER.

<u>Ingredient Name</u>	<u>CAS Number</u>	<u>Wt %</u>	ACGIH	OSHA
			TLV	PEL
Methyl Alcohol	67-56-1	20%	200 ppm	200 ppm
2-propenoic acid, sodium salt, polymer with 2-methyl-2- [(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt	37350-42-8	8-10%	Not Established	Not Established
Aminotrimethylene Phosphonic Acid	6419-19-8	< 10	NE	NE
Phosphoric Acid	7664-38-2	< 1	3mg/m ³	3mg/m ³

*NE = "Not Established"

Section 3 - Hazards Identification

Potential Health Effects

Primary Entry Routes: Eye and Skin Contact, Inhalation, Ingestion, Central nervous system

Acute Effects: May be fatal or cause blindness if swallowed. Harmful if inhaled or absorbed through the skin.

Eye: Irritant. Continued exposure may cause eye lesions.

Skin: Methyl alcohol is a defatting agent and may cause skin to become dry and cracked. Skin absorption can occur; symptoms may parallel inhalation exposure

Inhalation: A slight irritant to the mucous membranes. Toxic effects exerted upon nervous system, particularly the optic nerve. Once absorbed into the body, it is very slowly eliminated. Symptoms of overexposure may include headache, drowsiness, nausea, vomiting, blurred vision, blindness, coma, and death. A person may get better but then worse again up to 30 hours later. May cause cardiac abnormalities.

HMIS

Health	3	Serious hazard
Flammability	2	Moderate hazard
Physical Hazard	0	Minimal hazard
PPE	H	Goggles, gloves

Material Safety Data Sheet

Product: Entegrate SC8060 WB

Ingestion: Toxic. Symptoms parallel inhalation. Can intoxicate and cause blindness. Usual fatal dose for methanol is 100-125 milliliters.

Carcinogenicity: No component of this product is listed as a known or suspected carcinogen by NTP, IARC, or OSHA.

Medical Conditions Aggravated by Long-term Exposure: Persons with pre-existing skin disorders or eye problems or impaired liver or kidney function may be more susceptible to the effects of the substance.

Chronic Effects: Marked impairment of vision has been reported. Repeated or prolonged exposure may cause skin irritation.

Section 4 - First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 30 minutes lifting the upper and lower lids at periodic intervals to insure contact of water with all accessible tissue of the eyes and lids. Medical attention should be given as soon as possible, preferably an eye specialist.

Skin Contact: Promptly wash the contaminated skin using soap or mild detergent and water. If chemical, or solution containing chemical, soaks through clothing, remove the clothing promptly and wash the skin using soap or mild detergent and water for at least 15 minutes. Medical attention should be given as soon as possible for all burns, regardless of how minor they seem.

Inhalation: If a person breathes in chemical, remove exposed person promptly to fresh air. If breathing has stopped, perform artificial respiration. Oxygen should be provided for a person having difficulty breathing (but only administered by an authorized individual) until the person is able to breathe easily by themselves. Keep the affected person warm and at rest. Get medical attention as soon as possible.

Ingestion: If swallowed, immediately call a poison control center or doctor. Induce vomiting unless told not to do by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

Section 5 - Fire-Fighting Measures

Flash Point: 115°F.

Flash Point Method: Closed Cup

Burning Rate: NA

Auto-ignition Temperature: NA

LEL (methanol): 6.0 %

UEL (methanol): 36.0 %

Extinguishing Media: Dry chemical, alcohol foam, or carbon dioxide. Water may be ineffective. Use extinguishing media appropriate for surrounding fire.

Unusual Fire or Explosion Hazards: Fire may produce irritating or toxic fumes.

Hazardous Combustion Products: Thermal decomposition, as under fire conditions, may produce carbon dioxide, carbon monoxide, and other potentially hazardous compounds

Fire-Fighting Instructions: Cool containers/exposed structures with water spray.

Fire-Fighting Equipment: For fires involving this material, do not enter any enclosed or confined fire spaces without proper protective equipment, such as self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Spill/Leak Procedures: Remove personnel from the area. Remove ignition sources from the area. Wear appropriate protective gear. Contain spill or leak. Dike area if necessary to prevent spill from spreading or entering sewers and waterways. Use water to dilute chemical to non-flammable concentrations. Recover as much as possible then absorb remainder with inert material. Place into closed container for disposal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

Regulatory Requirements: Dispose of recovered materials in accordance with all applicable state and federal regulations.

Material Safety Data Sheet

Product: **Entegrate SC8060 WB**

Section 7 - Handling and Storage

Handling Precautions: Do not get in eyes, on skin or on clothing. Do not taste or swallow. Do not inhale vapor or mist. Use with adequate ventilation. For Industrial Use Only!

Storage Requirements: Keep away from children. Store in a closed container in a well-ventilated area. Keep away from ignition sources, temperature extremes, and incompatible materials. Protect from physical damage.

Regulatory Requirements: Store in properly labeled container in accordance with all local, state and federal guidelines.

Section 8 - Exposure Controls/Personal Protection

Engineering Controls: Provide local exhaust ventilation as needed to control misting or vapor accumulation.

Administrative Controls: No recommendations.

Respiratory Protection: If the exposure limit is exceeded, and engineering controls are not feasible, use a full-face piece positive pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen deficient atmospheres. This compound possibly exists in both particulate and vapor phase.

Eye Protection: Wear chemical safety goggles or protective glasses with splash shields, per OSHA eye-and face-protection regulations (29 CFR 1910.133). Contact lenses are not recommended when handling any chemical product as they may trap chemicals that get in the eye, thus increasing the risk of eye damage.

Skin Protection: Wear chemically protective gloves and apron to prevent skin contact. Chemically resistant gauntlets and boots may also be worn for added protection.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and personal protective equipment.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section – 9 Physical and Chemical Properties

Physical State: Liquid

Appearance: Colorless to light yellow

Odor: Characteristic odor

Boiling Point: > 100°F

Freezing/Melting Point: NA

Density: 8.61 lbs/gal.

PH: > 2.2

Water Solubility: Soluble

Vapor Pressure: Not determined

Vapor Density (Air=1): >1

% Volatile: NA

Volatile Organic Content: NA

Evaporation Rate: Not determined

Section 10 - Stability and Reactivity

Stability: Product stable under normal storage and use conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Strong oxidizing agents such as nitrates, perchlorates or sulfuric acid. Will attack some forms of plastics, rubber, and coatings. May react with metallic aluminum and generate hydrogen gas. May react with oxidizing agents.

Conditions to Avoid: Heat, flames, ignition sources and incompatibles.

Hazardous Decomposition Products: May form carbon dioxide, carbon monoxide, nitrogen oxides, sulfur oxides, some metallic oxides, and formaldehyde when heated to decomposition.

Material Safety Data Sheet

Product: **Entegrate SC8060 WB**

Section 11 - Toxicological Information

Toxicity: Methyl Alcohol (Methanol) Oral rat LD50: 5628 mg/kg; (polymer) Oral rat LD50 2100mg/kg; inhalation rat LC50: 64000 ppm/4H; skin rabbit LD50: 15800 mg/kg; Irritation data-standard Draize test: skin, rabbit: 20mg/24 hr. Moderate; eye, rabbit: 100 mg/24 hr. Moderate. Investigated as a mutagen, reproductive effector.

Eco Toxicity: (Polymer) Daphnia (LC 50) 72 hours: 760mg/l. Trout(LC 50) 96 hours: 1000mg/l. Algae(LC 50) 48 hours: 21mg/l., (EC 50)10-100mg/l.

Biodegradation At least 5% of the components in this product show limited biodegradation based on OECD 301-type test data. At least 5% of the components in this product show limited biodegradation based on OECD 302-type test data.

Bioaccumulation 5% or greater of the components display no potential to bioconcentrate.

Soil Mobility: Not determined

Carcinogenicity: See section 3

Section 12 - Ecological Information

Bioaccumulation: Not determined

Environmental Fate: When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is expected to quickly evaporate. When released into the water, the solvent in this material is expected to have a half-life between 1 and 10 days. When released into the air, this material is expected to exist in the aerosol phase with a short half-life. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into air, this material is expected to have a half-life between 10 and 30 days. When released into the air, this material is expected to be readily removed from the atmosphere by wet deposition.

Section 13 - Disposal Considerations

Disposal: Review federal, state and local government requirements prior to disposal.

Disposal Regulatory Requirements: Review federal, state and local government requirements prior to disposal

Container Cleaning and Disposal: Review federal, state and local government requirements prior to disposal.

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Flammable Liquid, toxic, N.O.S.
Hazard Class: 3(6.1)
ID No.: UN 1230
Packing Group: II
Label Code: 3(6.1)
HMIS Label 3, 2, 0, H

Section 15 - Regulatory Information

EPA Regulations: All components of this product are listed (or are not required to be listed) in the TSCA inventory.

SARA Regulations:

Name	CAS #	SARA 302	SARA 304	SARA 313	CERCLA
Methyl Alcohol	67-56-1	No	No	Yes	5000 lbs

Material Safety Data Sheet

Product: **Entegrate SC8060 WB**

US Federal regulations: This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

Phosphoric acid 7664-38-2 (1% of total product) 5000 Lb final RQ; 2270 kg final RQ

U.S. - CWA (Clean Water Act) - Hazardous Substances

Phosphoric acid 7664-38-2 Present

CERCLA (Superfund) reportable quantity

Phosphoric acid: 5000lb.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Hazard categories

Section 302 extremely hazardous substance

Immediate Hazard - Yes

Delayed Hazard - No

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

Section 16 - Other Information

Prepared By: U.S. Water Services

Revision Notes: New

Disclaimer:

USER'S RESPONSIBILITY

The information and recommendations contained herein cannot cover all possible situations which the user may experience during storage, handling and use of the product. Each aspect of your operation should be examined to determine if additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or customers. It is your responsibility to use this information to develop appropriate work practice guidelines and employee instructional programs for your operation.

DISCLAIMER OF LIABILITY

As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state and local laws and regulations remains the responsibility of the user.