SAFETY DATA SHEET



Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	WC-9178
Other means of identification	:	Not applicable.
Restrictions on use	:	Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.
Company	:	ChemTech Services 2710 E County Rd 120 Midland TX 79706
Emergency telephone number	:	(800) 424-9300 (24 Hours) CHEMTREC
Issuing date	:	07/21/2016

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids Acute toxicity (Oral) Acute toxicity (Inhalation) Acute toxicity (Dermal) Serious eye damage Skin sensitization Reproductive toxicity	 Category 4 Category 2 Category 4 Category 4 Category 1 Category 1 Category 2
GHS Label element	
Hazard pictograms	
Signal Word	: Danger
Hazard Statements	 Combustible liquid Fatal if swallowed. Harmful in contact with skin or if inhaled May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility or the unborn child.
Precautionary Statements	 Prevention: Do not breathe dust/fume/gas/mist/vapours/spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/ protective clothing/ eye protection/ face protection. Wear respiratory protection. Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.IF ON SKIN: Wash with plenty of
	4/40

soap and water.IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

IF exposed or concerned: Get medical advice/attention.

Other hazards : N	None known.
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Section: 3. COMPOSITION/II	NFORMATION	ON INGREDIENTS	
Pure substance/mixture	: Mixture		
Chemical Name Tetrakis(hydroxymethyl) phos	phonium sulfate	CAS-No. 55566-30-8	Concentration: (%) 5-50%
Section: 4. FIRST AID MEAS	URES		
In case of eye contact	least 15 m		vater, also under the eyelids, for at lenses, if present and easy to do. ntion immediately.
In case of skin contact	Use a mild	soap if available. Wash	of water for at least 15 minutes. a clothing before reuse. use. Get medical attention.
If swallowed		y mouth to an unconscie	nduce vomiting. Never give ous person. Get medical attention
If inhaled	: Remove to immediate		matically. Get medical attention
Protection of first-aiders	not put you	urself at risk of injury. If i	danger before taking action. Do in doubt, contact emergency /e equipment as required.
Notes to physician	: Treat symp	otomatically.	
Most important symptoms and effects, both acute and delayed	: See Section symptoms.		nformation on health effects and

Section: 5. FIREFIGHTING MEASURES Suitable extinguishing media : Use extinguishing measures that are appropriate to local

Suitable extinguishing media	circumstances and the surrounding environment.	
Unsuitable extinguishing media	: None known.	
Specific hazards during firefighting	 Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. 	
Hazardous combustion	: Decomposition products may include the following materials:	

products	Carbon oxides Sulphur oxides Oxides of phosphorus
Special protective equipment : for firefighters	Use personal protective equipment.
Specific extinguishing set to the set of the	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	:	Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling	Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Do not ingest. Keep away from fire, sparks and heated surfaces. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation.
Conditions for safe storage	Keep away from heat and sources of ignition. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
Suitable material	 The following compatibility data is suggested based on similar product data and/or industry experience: Nylon, Polyethylene, Stainless Steel 304, Stainless Steel 316L, Hastelloy C-276, Plexiglass, PVC, Buna-N, HDPE (high density polyethylene), Natural rubber, Polyurethane, Ethylene propylene, Polypropylene, EPDM, FEP (encapsulated), MDPE, Nitrile, PTFE, Perfluoroelastomer, Polytetrafluoroethylene/polypropylene copolymer
Unsuitable material	 The following compatibility data is suggested based on similar product data and/or industry experience: Copper, Brass, Neoprene, Aluminum, Mild steel, Carbon Steel C1018, Surface-modified HDPE (high density polyethylene), Chlorosulfonated polyethylene rubber, Fluoroelastomer

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Tetrakis(hydroxymethyl) phosphonium sulfate	55566-30-8	TWA	2 mg/m3	ACGIH
Engineering measures		khaust ventilatio Ipational exposu	n system. Maintain ure standards.	air concentrations
Personal protective equipr	nent			
Eye protection	: Safety gog Face-shield			
Hand protection	Standard g Gloves sho	 Wear the following personal protective equipment: Standard glove type. Gloves should be discarded and replaced if there is any indication degradation or chemical breakthrough. 		
Skin protection	: Wear suita	: Wear suitable protective clothing.		
Respiratory protection		When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.		
Hygiene measures	practice. R Wash face Provide sui	emove and was , hands and any itable facilities fo		

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Liquid
Colour	: colourless
Odour	: Characteristic
Flash point	: 94.0 °C, 201°F
На	: 3.2, 100 %
pri	. 3.2, 100 /0
Odour Threshold	: no data available
Melting point/freezing point	: FREEZING POINT: -43 °C
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 48.0 mm Hg
Relative vapour density	: no data available

Relative density	: 1.1158 (20 °C)
Density	: 9.24 lb/gal
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n- octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition temperature	: no data available
Viscosity, dynamic	: no data available
Viscosity, kinematic	: 21 mm2/s (25 °C)
VOC	: 35.0 % Calculation method

Section: 10. STABILITY AND REACTIVITY

Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors. Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Strong acids
Hazardous decomposition products	:	Decomposition products may include the following materials: Carbon oxides nitrogen oxides (NOx) Sulphur oxides Oxides of phosphorus

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of	:	Inhalation, Eye contact, Skin contact
exposure		

Potential Health Effects

Eyes	: Causes serious eye damage.	
Skin	: Harmful in contact with skin. May cause allergic skin reaction.	
Ingestion	: Fatal if swallowed. Harmful if swallowed.	
Inhalation	: Fatal if inhaled. Harmful if inhaled.	

Chronic Exposure

: Suspected of damaging fertility or the unborn child.

Experience with human exposure

Eye contact	÷	Redness, Pain, Corrosion
Skin contact	:	Redness, Irritation, Allergic reactions
Ingestion	:	No information available.
Inhalation	:	Respiratory irritation, Cough
Toxicity		
Product		
Acute oral toxicity	:	no data available
Acute inhalation toxicity	:	LC50 rat: 0.591 mg/l Exposure time: 4 hrs Test substance: 75% Active Ingredient
Acute dermal toxicity	:	no data available
Skin corrosion/irritation	:	Method: OECD 404 Test substance:75% Active Ingredient
Serious eye damage/eye irritation	:	Species: rabbit Method: OECD Test Guideline 405
Respiratory or skin sensitization	:	no data available
Carcinogenicity	:	no data available
Reproductive effects	:	no data available
Germ cell mutagenicity	:	Not mutagenic in Ames Test. Clastogenic in an invitro assay for chromosomal abberations in Chinese Hamster Ovary cells. Negative in cultured rat hepatocytes unscheduled DNA synthesis.
Teratogenicity	:	This material is not a teratogen, at low dose levels of 6 or 18 mg/kg/day for rabbits and 15 or 30 mg/kg/day for rats. At a high dose level of 60 mg/kg/day, both species showed fetal toxicity.
STOT - single exposure	:	no data available
STOT - repeated exposure	:	no data available
Aspiration toxicity	:	no data available
Components		
Acute oral toxicity	:	Tetrakis(hydroxymethyl) phosphonium sulfate

LD50 rat: 431 mg/kg

Components

Acute dermal toxicity	:	Tetrakis(hydroxymethyl) phosphonium sulfate
		LD50 rat: > 1,500 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity	
Environmental Effects	: Toxic to aquatic life with long lasting effects.
Product	
Toxicity to fish	 LC50 Cyprinodon variegatus (sheepshead minnow): 72 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
	LC50 Oncorhynchus mykiss (rainbow trout): 119 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
	LC50 Lepomis macrochirus (Bluegill sunfish): 93 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
	LC50 Plaice: 86 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
Toxicity to daphnia and other aquatic invertebrates	 LC50 Mysid Shrimp (Mysidopsis bahia): 7.30 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
	EC50 Daphnia magna (Water flea): 19.4 mg/l Exposure time: 48 hrs Test substance: 75% Active Ingredient
Toxicity to algae	 LC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 0.20 mg/l Exposure time: 96 hrs Test substance: 75% Active Ingredient
Toxicity to bacteria	: EC50 Bacteria: 24 mg/l Exposure time: 3 hrs Test substance: 75% Active Ingredient

Persistence and degradability

The organic portion of this preparation is expected to be readily biodegradable.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the

defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air	: <5%
Water	: 30 - 50%
Soil	: 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Disposal methods	The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.
Disposal considerations	Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name	:	TOXIC, LIQUIDs, ORGANIC, N.O.S.
Technical name(s)	:	(TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE)
UN/ID No.	:	UN 2810
Transport hazard class(es)	:	6.1
Packing group	:	III

Air transport (IATA)

Proper shipping name Technical name(s) UN/ID No. Transport hazard class(es)	:	TOXIC, LIQUIDS, ORGANIC, N.O.S. (TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATE) UN 2810 6.1
Packing group	:	III

Sea transport (IMDG/IMO)

Proper shipping name: TOXIC, LIQUIDS, ORGANIC, N.O.S.Technical name(s): TETRAKIS(HYDROXYMETHYL) PHOSPHONIUM SULFATEUN/ID No.: UN 2810Transport hazard class(es): 6.1Packing group: III

Section: 15. REGULATORY INFORMATION

EPA Reg. No. : 33677-6-68708

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	Fire Hazard Acute Health Hazard Chronic Health Hazard
SARA 302	: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA) This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

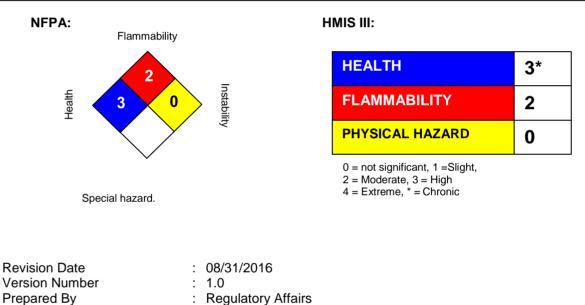
NEW ZEALAND

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION



REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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